ANNEXURE – I

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215.

DEPARTMENT OF CIVIL ENGINEERING

BOARD OF STUDIES MEETING

Meeting No	27
Date and Time	22.11.2024 & 10.00 AM
Venue	Board Room, Pratham Block, K.S. Rangasamy College of Technology, Tiruchengode – 637 215.

S. No	Name	Designation as per UGC	Designation / Affiliation with full contact details	Signature
1.	Dr.P.Mageshkumar	Chairman	Associate Professor & Head Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	22/11/24
2.	Dr. Ibrahim Bathusha M	University Nominee	Professor (CAS) Department of Civil Engineering, PSG College of Technology, Coimbatore, Tamil Nadu, India.	22/11/24
3.	Dr.V.Satheeskumar	Subject Expert	Associate Professor, Department of Civil Engineering, Government College of Technology, Thadagam Road, Coimbatore,Tamil Nadu - 641 013	22/11/24
4.	Dr.G.Arun Kumar	Subject Expert	Associate Professor, Department of Civil Engineering, Government College of Engineering, Salem Tamil Nadu-636 011	22/11/24
5.	Mr. S. Lokesh Kumar	Industry Expert	Territory Manager Technical, Customer Solutions, UltraTech Cement Limited, Chennai.	Attended Through Online
6.	Mr. S. Kumaran	Meritorious Alumni	Senior Engineering Manager, Larsen & Toubro, Chennai.	Attended through Online
7.	Dr.G.Vennila	Member	Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	22/11/24
8.	Dr.N.Ramesh	Member	Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	22/11/24

S. No	Name	Designation as per UGC	Designation / Affiliation with full contact details	Signature
9.	Dr.S.Ramesh	Member	Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
10.	Dr.J.Abdul Bari	Member	Associate Professor Associate Professor & Head Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
11.	Dr.R.Jagadeesan	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
12.	Dr.M.Velumani	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
13.	Dr.D.Sivakumar	Member	Associate Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
14.	Dr.S.Gunasekar	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
15.	Prof.K.AnguSenthil	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
16.	Dr.K.Yuvaraj	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
17.	Dr.K.Vijaya Sundravel	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
18.	Prof. K. Tamilarasu	Member	Assistant Professor Department of Chemistry K.S.Rangasamy College of Technology,Tiruchengode-637215	
19.	Dr.K. Prabakaran	Member	Professor Department of Mathematics K.S.Rangasamy College of Technology,Tiruchengode-637215	

20.	Dr. A. Palaniappan	Member	Professor Department of English K.S.Rangasamy College of Technology,Tiruchengode-637215	
21.	Ms.T. Rithiga	Student Member	IV Year Civil Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
22.	Mr.A.Sanjay Kumar	Student Member	IV Year Civil Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
23.	Mr. S.Ajith	Student Member	III Year Civil Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
24.	Mr. P.Vijayaprasanna	Student Member	II Year M.E. Structural Engineering Department of Civil Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215.	
25.	Mrs. A.Chitra	Parent of M.Sabari (73772116111)	Head master Panchayat Union Primary School - Veppilaipatty pudhur - 636202	
26.	Mrs. G.Kalaiselvi	Parent of R.K.Aswin (73772216105)	Assistant Professor Anjalai Ammal Mahalingam Engineering college, Kovilvenni, Thiruvarur	

CHAIRMAN
(Board of Studies)

CHAIRMAN
Board of Studies
Faculty of Civil Engineering
K.S.Rangasamy College of Technology
TIRUCHENGODE - 637 215.

ANNEXURE – I
K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215.
(Autonomous Institution Affiliated to Anna University, Chennai)

DEPARTMENT OF CIVIL ENGINEERING

MEMBERS OF BOARD OF STUDIES (BOS) MEETING – 27

(Period: NOV 2024)

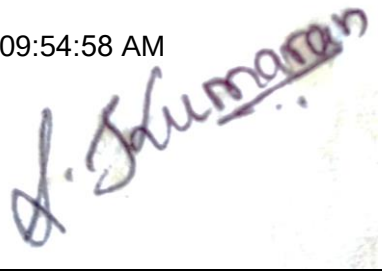
Date : 22.11.2024 **Time: 10.00AM**

Venue : Board Room, Pratham Block (Hybrid mode)

Meeting link :

https://teams.microsoft.com/l/meetupjoin/19%3ab106ddad8c714c87bbdf6cd637321501%40thread.tacv2/1732185883828?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f18525db-f273-4d02-ad40-f84dfee36edc%22%7d

Virtual Attendance

Department	Civil Engineering (UG & PG)		
Programme & Duration	B.E. (Civil Engineering), 4 years, M.E.(Structural Engineering), 2 years		
Sl.No.	Name, Designation & Address	Position	Signature
1.	Mr. S. Lokesh Kumar Territory Manager Technical, Customer Solutions, UltraTech Cement Limited, Chennai.	Industry Expert	09:50:14 AM
2.	Mr. S. Kumaran Senior Engineering Manager, Larsen & Toubro, Chennai.	Meritorious Alumni	09:54:58 AM 

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215

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

Minutes of the Board of Studies Meeting

Department of Civil Engineering

BoS Meeting No: 27				Date: 22.11.2024	Venue:	Mechanical Board Room	
S.No	**Agenda**	**Name & Nominee**	**Discussion/Suggestion**	**Action to be taken**	**Responsibility**	**Target**	**Remarks**
1	**Curriculum of UG Programme– R2026**	Dr. Ibrahim Bathusha M University Nominee	Suggested to rename the course "**Applied Mechanics**" to "**Engineering Mechanics for Civil Engineers**".	As per the suggestion, the course name has been changed to "**Engineering Mechanics for Civil Engineers**".	Module Coordinator	Immediate	Submitted to Academic Council for Approval
			Suggested to change the "**Basic Electrical and Electronics Engineering Laboratory**" course to "**Basic Mechanical and Electrical Engineering Laboratory**".	As per the suggestion, the "**Basic Electrical and Electronics Engineering Laboratory**" course has been changed to "**Basic Mechanical and Electrical Engineering Laboratory**".	Module Coordinator	Immediate	
			Suggested to merge the "**Engineering Geology**" and "**Soil Mechanics**" as a combined course in IV Semester.	Based on the recommendation, the course "Geology and Soil Mechanics" as a single course in IV semester	Module Coordinator	Immediate	
		Dr.V.Satheeskumar Subject Expert	Suggested to modify the course "**Basic Electrical and Electronics Engineering**" to "**Basic Mechanical and Electrical Engineering**" in the Second semester.	The course name has been renamed to "**Basic Mechanical and Electrical Engineering**".	Module Coordinator	Immediate	
			Suggested to change the " **Fluid Mechanics and Hydraulic Machinery**" to an assignment-based course instead of a tutorial course.	The course "**Fluid Mechanics and Hydraulic Machinery**" has been changed as assignment-based course	Module Coordinator	Immediate	
			Suggested to rename the course title from "**Basic Reinforced Concrete Design**" to "**Reinforced Concrete Design I**".	The course has been renamed from "**Basic Reinforced Concrete Design**" to "**Reinforced Concrete Design I**".	Module Coordinator	Immediate	
			Suggested to rename the course title from "**Advanced Reinforced Concrete Design**" to "**Reinforced Concrete Design II**".	The course has been renamed from "**Advanced Reinforced Concrete Design**" to "**Reinforced Concrete Design II**".	Module Coordinator	Immediate	
			Suggested to remove the "**Professional Ethics**" course in the **6th semester** since students have already covered ethics in the "**Universal Human Value**" course. Instead,	**Professional Ethics** has been removed from the **6th semester** curriculum. And, the course has been	Module Coordinator	Immediate	

1	**Curriculum of UG Programme– R2026**		the course should be replaced with **"Engineering Economics and Financial Accounting".**	replaced with **Engineering Economics and Financial Accounting.**			
		Dr.G.Arun Kumar Subject Expert	Suggested to change the **"Highway and Railway Engineering"** course, as theory cum practical course.	The **"Highway and Railway Engineering"** course has been changed as theory cum practical course.	Module Coordinator	Immediate	
		Mr. S. Lokesh Kumar Industry Expert	Suggested to change the **"Engineering Drawing and 3D Modelling"** course, as theory cum practical course.	The **"Engineering Drawing and 3D Modelling"** course has been changed as theory cum practical course.	Module Coordinator	Immediate	
			Suggested to modify the course **"Wastewater Engineering"** to **"Water Supply and Waste Water Engineering"** in the fourth semester.	As per the suggestion, the **"Wastewater Engineering "** course has been changed to **"Water Supply and Waste Water Engineering".**	Module Coordinator	Immediate	
			Suggested to move the **"Building Information Laboratory"** course from 4th semester to 6th semester.	As per the suggestion, the **"Building Information Laboratory"** course has been moved from 4th semester to 6th semester.	Module Coordinator	Immediate	Submitted to Academic Council for Approval
			Suggested to move the **"Material Testing Laboratory"** course from 6th semester to 4th semester.	As per the suggestion, the **"Material Testing Laboratory"** course has been moved from 6th semester to 4th semester	Module Coordinator	Immediate	
		Mr. S. Kumaran Meritorious Alumnus	Suggested to rename the course **"Physics for Civil Engineering"** to **"Physics for Civil Engineers"** for better alignment with professional context and clarity.	The course name has been renamed as **"Physics for Civil Engineers"** in the curriculum and syllabus.	Module Coordinator	Immediate	
			Suggested to rename the course **"Chemistry for Civil Engineering"** to **"Chemistry for Civil Engineers"** for consistency and better alignment with professional context and clarity.	The course name has been renamed as **"Chemistry for Civil Engineers"** in the curriculum and syllabus.	Module Coordinator	Immediate	
			Suggested that the **"Rebar and Structural Steel Laboratory"** course can be introduced in 7th semester	As per the suggestion, the **"Rebar and Structural Steel Laboratory"** course has been introduced in the 7th semester.	Module Coordinator	Immediate	
		The necessary corrections has been updated and submitted to the Academic Council Meeting for further approval					

2.	**Curriculum of PG Programme– R2025**	Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert)	The curriculum and syllabi of I – IV semester of R2025 PG is presented and the following suggestions were given It was suggested to move the **"Design of Steel Composites"** course to the **Professional Core** category for the **M.E. Structural Engineering** program, as this course directly contributes to the specialized knowledge required for advanced structural engineering. Additionally, some **Basic Courses** like Structural Dynamics in the program could be moved to the **Elective** category to allow students for more flexibility and choice in selecting courses aligned with their interests.				
3.	**Minor and Honor degree course curriculum and syllabi in R2022**	Dr. Ibrahim Bathusha (University Nominee) Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert) Mr. S. Kumaran (Meritorious Alumnus)	The members suggested to include the following courses for Honors degree (R-2022). 1. 60CEH01- Architecture and Town Planning 2. 60CEH02- Traffic Engineering and Management 3. 60CEH03- Building Services 4. 60CEH04- Climatic Changes and Adaptation Measures 5. 60CEH05- Application of Remote sensing and GIS in Engineering 6. 60CEH06- Disaster Management.	All the courses are included in the honors degree	BoS Chairman	Continuous	Submitted for the approval of Academic Council
4.	**List of open elective courses and value-added courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even Semester)**	Dr. Ibrahim Bathusha (University Nominee) Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert) Mr. S. Kumaran (Meritorious Alumnus)	The following open elective courses were offered in 2024-25 (ODD Semester) 1. 60 CE L02- Climatic Changes and Adaptation Measures. **List of open elective courses to be offer in 2024-25 (Even semester)** 2. 60 CE L01 – Waste Management Techniques 3. 60 CE L10 – Disaster Management Dr. Ibrahim Bathusha, M. University Nominee suggested to offer the Disaster Management as the open elective course as the other department students can understand the global environmental concerns The value-added course planned to offer in the Even semester (2024-2025) for UG program 1. Building Information Modelling 2. Building Valuation / NBC Bye-Laws The Board of Studies members approved the Open Elective and Value-added Courses. The List of courses has been submitted to the academic council meeting for the further approval				
5.	**Discussion on Curriculum of VI to VIII Semester for R 2022 (UG)**	Dr. Ibrahim Bathusha (University Nominee) Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert)	**I. Total No. of credits for the UG programme** The Curriculum and Syllabi of R2022 of UG and PG was Presented. Curriculum of Civil Engineering (UG) R2022 is 162 credits. For M.E. Structural Engineering (PG) R2022 is 73 credits. **II. Curriculum and syllabi shall meet the requirements to pursue higher education, career guidance, Startups & Entrepreneurship & Crosscutting issues** Dr. Ibrahim Bathusha and Dr.V.Satheeskumar appreciated that the prescribed Syllabus content of PG (M.E – Structural Engineering) are within the requirements of AICTE. Dr.G.Arun Kumar appreciated that the curriculum and syllabi is complying with GATE 2024 Syllabus.				

		Mr. S. Lokesh Kumar Industry Expert	**III. Curriculum & syllabi should improve innovative, design & critical thinking skills and problem solving abilities of students** Dr. Ibrahim Bathusha, Dr.G.Arun Kumar and Dr.V.Satheeskumar discussed that the proposed R 2022 curriculum & syllabi will enrich innovative, design & critical thinking skills and problem solving abilities of students. The course Design Thinking and Innovation & Design Thinking and Product Development was introduced in the V and VI Semester **IV. Virtual Laboratories & Industry sponsored courses \ Specific Laboratories** Dr. Ibrahim Bathusha, Dr.G.Arun Kumar and Dr.V.Satheeskumar suggested to have the virtual lab from the NITK Surathkal and other reputed institutions **V. New courses offered** **As per the suggestions, the new courses introduced are** 1. Geotextiles and Applications in Civil Engineering 2. Geotextiles and Geosynthetics Laboratory
6.	**Discussion on Choice Based Credit System**	Dr. Ibrahim Bathusha (University Nominee) Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert) Mr. S. Kumaran (Meritorious Alumnus)	**Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (ODD sem.) and planned to offer in Even semester of 2024-25** **NPTEL Offered in 2024-25 (ODD Sem)** • Environmental Science (12 Weeks) • Municipal Solid Waste Management (12 Weeks) • Building Materials as a Cornerstone to Sustainability (12 Weeks) **NPTEL planned to offer in 2024-25 (Even Sem)** • Introduction to Civil Engineering Profession (8 Weeks) • Basic Construction materials (12 Weeks) • Concrete Technology (12 Weeks) **II. One credit course planned to offer by industry in 2024-25(Even semester)** One Credit courses planned to offer are • Digital Surveying, in collaboration with Land Coordinates Technologies, Chennai – 600073. **III. Skill based courses offered in 2024-25(ODD semester) and planned to offer 2024-25(Even semester)** The following skill-based courses were planned to offer in 2024-25(ODD semester) • Rebar & Structural Steel Detailing • Revit Architecture Value added courses planned to offer in 2024-25(Even semester) • Building Valuation / NBC Bye-Laws • Building Information Modelling using Tekla Software **Internship for Students (2nd, 3rd & 4th Year)** 2 Weeks-1 Credits 4 Weeks-2 credits 6 Weeks and above-3 Credit Number of Students undergone internship are 3rd Year – 22 4th Year – 22 All members suggested that the Internship is mandatory to all students and to be fulfilled by AICTE norms. All members suggested to have the NPTEL course as mandatory to all students. The above discussion are submitted for the approval in Academic Council Meeting for approval.

7.	**Stake holders feedback and action taken**	The following suggestions are given by stakeholders 1. Mr.T Karthick suggested that the **"Surveying"** course will emphasizes essential tools for modern construction and planning, seamlessly integrating traditional surveying methods with advanced geomatics techniques. 2. Mr. P. Manikandan suggested that the **"Building Information Modelling Laboratory"** course will aligns with current industry practices, offering students valuable exposure to advanced tools like BIM. 3. Mrs. V.Seethadevi suggested that the **"Sustainable Green Buildings"** course may fosters understanding and application of eco-friendly construction practices, thereby promoting sustainable development. 4. Mr.R.Umasankar suggested that the **"AI and IoT Applications in Civil Engineering"** course will reflect forward-thinking by integrating emerging technologies into civil engineering practices. 5. Mr.D.Ramesh Kumar suggested that the **"Traffic Engineering and Management"** course is essential for developing efficient and safe transportation systems, addressing a critical need in urban development. 6. Mrs. S.Banumathi suggested that the **"Solid and Hazardous Waste Management"** courses emphasize the course importance of waste reduction and management strategies, which are vital for environmental conservation. 7. Mr.S.Vigneshwara suggested that the **"Geotextiles and its Applications in Civil Engineering"** course may take a focused approach to specialized materials, addressing both infrastructure and environmental needs. 8. Mr. S.Ganapathy suggested that the **"Sustainable Infrastructure"** course as an open elective that reflects global demands for long-lasting and environmentally sound infrastructure solutions. Based on the feedback received from the stakeholder the syllabi of R2026 for the particular courses are updated submitted to Academic Council meeting for the approval
8	**Any other Matters**	**Question Paper Reforms - Internal and End Semester Examination** Reforms in examination question papers for both internal assessments and end-of-semester exams can be implemented in accordance with directives from the Head of the Institute, ensuring consistency across all branches. **NCC as additional Credit \Waiver in R2026,2022 & 2018** Members suggested adhering to the directions provided by the Head of the Institute since they are the same for all branches.

13/12/24
BoS Chairman

Dean/Academics

13/12/2024
Dean/Admin

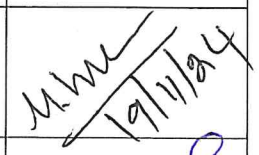
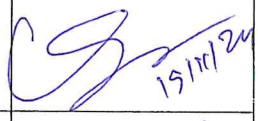
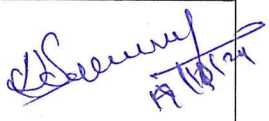
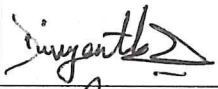
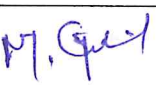
Principal

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215

ANNEXURE – I	
Board of Studies (BoS) Meeting No. : 27	19.11.2024 (Tuesday), 09.30 a.m.

LIST OF MEMBERS ATTENDED

S.No.	Name	Designation & Address	Representation	Signature
1.	Dr.A.Murugesan	Professor & Head, Department of Mechanical Engineering, K.S.Rangasamy College of Technology.	Chairman	
2.	Dr. K. Balamurugan	Associate Professor, Department of Mechanical Engineering Government College of Engineering, Erode – 638 316.	University Nominee	19/11/24
3.	Dr.D.Kesavan	Associate Professor, Mechanical Engineering Indian Institute of Technology Palakkad, Kanjikkode, Palakkad, Kerala. Pin: 678623	Subject Expert	
4.	Dr.P.Jeyaraj	Associate Professor, Department of Mechanical Engineering, National Institute of Technology, Surathkal	Subject Expert	Attended through online.
5.	Mr.Rammohan Krishnan	President Engineering, Chemplast Cuddalore Vinyls Ltd., (Sanmar Group), SIPCOT Industrial Complex Phase II, Semmankuppam, Cuddalore - 607 005	Industry Expert	
6.	Dr. R Parameshwaran	Executive Director (TBI), Chief Coordinator (P&T) Kongu Engineering College, Perundurai, Erode-638052	Alumni	19/11/24
7.	Dr. A. Kumaravel	Professor & Dean/Admin. K.S.Rangasamy College of Technology.	Member	19/11/24
8.	Dr.P.S.Sampath	Professor, Department of Mechanical Engineering,K.S.Rangasamy College of Technology.	Member	19/11/24
9.	Dr.S.Gopalakrishnan	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology.	Member	
10.	Dr.K.Mohan	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	19.11.24
11.	Dr.K.Santhanam	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	19/11/24

S.No.	Name	Designation & Address	Representation	Signature
12.	Dr.M.Gnanasekaran	Associate Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
13.	Mr. S. Venkatesan	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
14.	Dr.V.P. Arthanarieswaran	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
15.	Dr.S.Jeyaprakasam	Associate Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
16.	Dr.D.Vasudevan	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
17.	Mr.C.Ramesh	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
18.	Mr.Shanmugam M	Parent of Prithiv Raj S (73772111130)	Member (Parent)	
19.	Mr. Divyanth S S Reg. No. 73772111111	IV Year Mechanical Engineering, K.S.Rangasamy College of Technology	Student Member	
20.	Sivaswaminathan S Reg. No. 73772111136			
21.	Sri Prasanna T A Reg. No. 73772111137			
22.	Mr. Gibi M Reg.No. 73772111411			

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

Minutes of Board of Studies Meeting

Department ofMechanical Engineering

21.11.2024

BoS Meeting No.: **27** Meeting Date: **19.11.2024** Venue:**Board room&MS Teams (https://rb.gy/ofa6vf)**

Agenda:

Vision, Mission, PEO, PSO of Mechanical Engineering

Discussion/Suggestion:

Vision, Mission, PEO, PSO of Mechanical Engineering programme were presented and discussed among the members.

Vision:To be a leader in providing skill sets for globally competent Engineers, Researchers, Entrepreneurs and Managers in Mechanical Engineering domain.

Mission:

- To offer quality education through experiential learning using ICT tools and socially –relevant projects.
- To engage Faculty and Students in fundamental, heavy engineering and applied research related to energy, environment and safety concerns.
- To groom students to venture into successful entrepreneurs and managers

Program Educational Objectives(PEOs)

PEO1: **Professional Competency**: Graduates of the programme will adapt to emerging technological challenges with core competence in mechanical engineering domain.

PEO2: **Employability and Entrepreneurship**: Graduate of the programme will exhibit their technical knowledge and skills to secure suitable positions in technological organizations and to become entrepreneurs

PEO3: **Higher Education and Research**: Graduates of the programme will pursue advanced studies in thrust areas of mechanical engineering to carryout scientific and industrial research to meet/satisfy current requirements in respective sectors ethically.

Programme Specific Outcomes (PSOs): Engineering Graduates will be able to:

PSO1: Use modern tools in the design, analysis and manufacturing of mechanical components and systems.

PSO2: Solve multidisciplinary problems in manufacturing and allied industries.

PSO3: Adopt creative and innovative approaches to address real- time industrial challenges

Action to be taken:

It was resolved to continue the above mentioned Vision Mission, PEO and PSO of the Mechanical Engineering programme.

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215

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

Minutes of Board of Studies Meeting

Department ofMechanical Engineering

21.11.2024

S. No.	BoS Meeting No.: **27**			Date:**19.11.2024**	Venue:**Board room& MS Teams (https://rb.gy/ofa6vf)**		
	Agenda	**Name & Nominee**	**Discussion/Suggestion**	**Action to be taken**	**Responsibility**	**Target**	**Rem.**
1.	**Curriculum of UG programmes (R2026)**	Dr.K.Balamurugan, University Nominee & Dr.P.Jeyaraj Academic Expert	- **Physics for Mechanical Engineering**: Suggested to rename the course as 'Engineering Physics'	- Based on the suggestion, the course name has been renamed.	Science & Humanities Dept.	Immediate	Submitted to Academic Council for approval.
		Dr.K.Balamurugan, University Nominee & Dr.R.Parameshwaran Alumni	- **Electrical Drives and Control for Mechanical Engineers:** Control system portion too heavy when combined with drives. - Also Electrical motors must be studied first and then control of the same have to taught. Electrical machines laboratory may be focused.	- As per the suggestion, the electrical motors are emphasized while framing syllabus.	EEE Dept.	Immediate	
		Dr.K.Balamurugan, University Nominee & Dr.P.Jeyaraj Academic Expert	- **Basic Electrical and Electronics Engineering:** Suggested to include the contents which were not covered in the school level.	- As per the suggestion from the members, the points were considered while framing syllabus.	EEE Dept.	Immediate	

1.	**Curriculum of UG programmes (R2026)**	Dr.K.Balamurugan, University Nominee & Dr.P.Jeyaraj Academic Expert	- **Chemistry for Mechanical Engineering:** Suggested to rename the course as 'Applied Chemistry'.	- Based on the suggestion, the course name has been renamed.	Science & Humanities Dept.	Immediate	Submitted to Academic Council for approval.
		Dr.K.Balamurugan, University Nominee & Dr.P.Jeyaraj Academic Expert	- **Differential Calculus**: Suggested not to change the course name as it implies the specific content. - Application part may be included at the end of each module.	- As per the suggestion, the course is renamed as 'Engineering Mathematics I.	Science & Humanities Dept.	Immediate	
		Dr.P.Jeyaraj Academic Expert & Dr.R.Parameshwaran Alumni	- Suggested to include tutorial hours for the courses 'Strength of Materials', 'Thermodynamics', Kinematics of Machines' and 'Heat and Mass Transfer' as the courses are analytical in nature.	- Based on the suggestion given by the expert members, the tutorial hours have been included in the curriculum.	Module Coordinators	Immediate	
		Dr.K.Balamurugan, University Nominee & Dr.P.Jeyaraj Academic Expert	- Suggested to have maximum of six theory courses in the particular semester.	- Based on the suggestion, the curriculum were revised.	Programme Coordinator/ Module Coordinators	Immediate	
		Dr.P.Jeyaraj Academic Expert & Dr.R.Parameshwaran Alumni	- Suggested to combine 'Manufacturing Technology' and 'Machining Processes' into one course and introduce 'Computer Integrated Manufacturing' as elective courses.	- As per the suggestion given by the membersthe core and elective courses have been revised.	Module Coordinator	Immediate	

1.	**Curriculum of UG programmes (R2026)**	Dr.K.Balamurugan, University Nominee & Dr.R.Parameshwaran Alumni	- Suggested to offer the course 'Fluid Power Automation' to 5th semester and 'Automobile Engineering' course to higher semester in order to avoid accumulation of courses/credits in the 4th semester.	- As per the suggestion from the members, the curriculum were revised.	Module Coordinators	Immediate	Submitted to Academic Council for approval.
		Dr.P.Jeyaraj Academic Expert & Dr.R.Parameshwaran Alumni	- Suggested to offer the course 'Startups and Entrepreneurship' after completing the 'Design Thinking and Innovation'	- As per the suggestion, the curriculum were updated.	Module Coordinators	Immediate	
		Dr.K.Balamurugan, University Nominee & Dr.R.Parameshwaran Alumni	- Suggested to offer 'Artificial Intelligence' as elective course instead core course. - Manufacturing related course may be introduced in the 7th semester.	- Based on the suggestion, the elective courses were restructured.	Module Coordinators	Immediate	
		Dr.P.Jeyaraj Academic Expert & Mr.Rammohan Krishnan Industry Expert	- 'Refrigeration and Air-Conditioning' course content may be offered in the 'Thermal Engineering' course as one of the module. - And the credits may be utilised for analytical courses.	- As per the suggestion, the elective courses were restructured.	Module Coordinators	Immediate	

1.	**Curriculum of UG programmes (R2026)**	Dr.P.Jeyaraj Academic Expert & Dr.R.Parameshwaran Alumni	- Suggested to rearrange the design vertical comprising courses viz. Fracture Mechanics, Vibration and Acoustics, Theory of Elasticity, Continuum Mechanics, Composite Materials, and Fatigue Analysis.	- Based on the suggestion, the elective courses were restructured.	Module Coordinators	Immediate	Submitted to Academic Council for approval.
		Dr.K.Balamurugan, University Nominee & Dr.R.Parameshwaran Alumni	- Suggested to include 'New Product Development', 'Robotics and Automation' and 'Management' as verticals in Professional Elective.	- As per the suggestion, the elective verticals were revised.	Programme Coordinator & Module Coordinators	Immediate	Submitted to Academic Council for approval.
		Dr.P.Jeyaraj Academic Expert & Dr.R.Parameshwaran Alumni	- Suggested to include micro projects in the specific courses and mini projects in the curriculum as they are mandatory as per new NBA guidelines.	- Mini/Micro projects have been included in the curriculum.	Programme Coordinator & Module Coordinators	Immediate	Submitted to Academic Council for approval.
2	**Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programme**	Dr.P.Jeyaraj Academic Expert & Dr.R.Parameshwaran Alumni	- Suggested to offer the laboratory course (Fabrication Laboratory) with background information such as charts, demo and videos to have better understanding.	- The experiments were revised and the mode of delivery are planned as per the suggestion from the experts.	Programme Coordinator/ Module Coordinator & Course Coordinator	Immediate	Submitted to Academic Council for approval.

3	**Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026)** **Discussion/Suggestion:** - Proposed curriculum and syllabi for the Honours courses were presented and the suggestions were sought by the BoSChaiman. Members suggested to offer the courses which emphasize on emerging technologies. The list of courses are as follows: • 60 ME E16 - Reverse Engineering • 60 ME E27 - Optimization Techniques in Design, • 60 ME E37 - Integrated Product Development • 60 ME E47 - Micro and Precision Engineering • 60 ME E57 - Quality Engineering • 60 ME E58 - Surface Engineering Apart from the above courses, the emerging courses such as Artificial Intelligence, Industrial Robotics, 3 D Printing and Sustainable Design, Plant Safety, Plant Life cycle and Non Destructive Testing may be offered based on the student interest. **Action Taken:** The curriculum and syllabi of Honours courses presented by the BoS Chairman were passed in the meeting and submitted to Academic Council for approval.
4	**List of open elective courses offered in 2024-25(ODD Semester)** - The following open elective courses were offered in 2023-24 (EVEN Semester) • 50 ME L05 Logistics Management • 50 ME L11 Composite Materials and Processing • 60 ME L02 Product Design and Development **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee &Mr.Rammohan Krishnan, Industry Expert, suggested to offer open elective courses which attract other department students that to useful for the skill development and placement. **List of open elective courses planned to offer in 2024-25 (EVEN semester)** **Action Taken:** - Based on the discussion, the members approved to offer the following open elective courses in 2024-25 (EVEN semester) • 60 ME L01 Direct Digital Manufacturing • 60 ME L04Reliability Engineering • 60 ME L06 Power Generation Engineering • 60 ME L07 Green Energy Sources - It is resolved to submit the syllabi to Academic Council for further approval.

	List of value-added courses offered in 2024-25(ODD Semester) and planned to offer in 2024-25 (EVEN semester) - The following value added courses were offered in 2024-25 (ODD Semester) • Solid Works • Design for Manufacture and Assembly • Computer Aided Manufacturing **Discussion/Suggestion:** Dr.K.Balamurugan, University Nominee &Dr.P.Jeyaraj, Academic Expert, Dr.R.ParameshwaranAlumnisuggested to offer industry related value added courses to suit the current requirements. **Action Taken:** - It is proposed to offer the following value added courses from 2024-25 EVEN Semester • NX-CAD • Inspection of Welded Joints - It is resolved to submit the proposal to Academic Council for further approval.
5	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R2026)** **I. Total No. of credits for the UG programme** **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee&Dr.P.Jeyaraj, Academic Expert and other members have gone through the proposed curriculum of Mechanical Engineering (UG) under Regulation R 2026. **Action Taken:** - As per the discussions, it is resolved to continue with 167credits for B.E Mechanical Engineering in R2026 and submitted to Academic Council for approval.
	II.Curriculum for I to VIII semester Courses (R2026) and Recommendations - Dr.K.Balamurugan, University Nominee&Dr.P.Jeyaraj, Academic Expert appreciated that the R 2026 curriculum of the Mechanical Engineering programme will meet the requirements to pursue higher education & carrier guidance and startups& entrepreneurship as well.
	III. Curriculum and syllabi to support progression to higher education, career guidance, Startups&Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs). - Dr.P.Jeyaraj, Academic Expert appreciated that the proposed R 2026 curriculum will focus on current trends in Mechanical Engineering which will be useful for placement, higher studies and entrepreneurship.
	IV. Curriculum meeting the requirements of NEP2020. **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee, Dr.P.Jeyaraj, Academic Expert and other members recommended to continue with existing system for elective courses/open elective course selection, project selection and internship.

	V. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills. **Discussion/Suggestion:** Members suggested that the proposed curriculum R 2026 will enrich innovative, design & critical thinking skills and problem solving abilities of students.
	VI. Incorporation of Virtual Laboratory &Industry sponsored/supported courses and laboratories **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee, Dr.P.Jeyaraj, Academic Expert suggested to continue with virtual laboratory contents available in web platform of premier institute. - It is resolved to submit the proposal for the approval in Academic Council.
	VII. Introduction of new courses **Discussion/Suggestion:** - Members suggested to focus on current trends in Mechanical Engineering which will be useful for placement, higher studies and entrepreneurship. **Action Taken:** - Based on the suggestion from the members and focused on the latest technology in Mechanical Engineering following new courses are introduced compared with R 2022 for betterment of placement, higher studies and entrepreneurship. 1. Computer Aided Drafting Laboratory 2. Piping Design 3. Industrial Tribology 4. Manufacturing Information System 5. Additive Manufacturing 6. Precision Engineering 7. Energy Conservation in HVAC System 8. Design Thinking and Innovation 9. Design Thinking and Product Development 10. Machine Learning 11. Production Planning and Control 12. Plastic Manufacturing Processes - It is resolved to submit the proposal to Academic Council for approval and implemented in the R 2022.

6	**Discussion on Choice Based Credit System** **I.** Self-study courses SWAYAM/ NPTEL/MOOC courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even Semester) **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee, Dr.P.Jeyaraj, Academic Expertsuggested to offer self-study courses from 3rd semester onwards with one course per semester. - The following courses were completed by both faculty and students under NPTEL during 2024-25 (ODD semester) • Product Design and Development • Manufacturing Process: Casting and Joining • Welding Application Technology • Introduction to Composites • Rapid Manufacturing • Engineering Metrology • Laser Based Manufacturing - In line with curriculum of R 2022, student can opt for the NPTEL and ICT academy courses based upon the industry needs. - It is resolved to submit for the approval in Academic Council.
	II. One credit course offered in 2024-2025 (ODD Semester) and planned to offer in 2024-225 (Even Semester) - The following value added courses were offered in 2023-24 (EVEN Semester) • Emerging Trends in Welding Technology **Discussion/Suggestion:** - Mr.Rammohan Krishnan and Dr.R.Parameshwaran, Alumnisuggested to offer one credit courses from 5th semester onwards that to one course per semester. **Action Taken:** - We are planning to conduct the following one credit courses in 2024-25(EVEN semester) • Welding Engineering • Welding Processes • Non -Destructive Testing • Geometric Dimensioning&Tolerancing (GD & T) - The knowledge of industry person is effectively utilized to enrich the skill of students in order to promote employability. - The one credit courses are submitted to Academic Council for further approval.

	III. Skill based courses offered in2024-25(ODD semester) and planned to offer 2024-25 (Even Semester) **Discussion/Suggestion:** - Members suggested to offer the skill based courses that will improve the technical skill of the students. The following skill based courses were planned to offer in 2024-25(EVEN semester) • Communication skill • Critical Thinking **Action Taken**: - The list of courses are submitted to Academic Council for further approval.
	IV. International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters. **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee, Dr.P.Jeyaraj, Academic Expert, Dr.R.Parameshwaran, Alumni insisted to motivate the students to participate in the certification courses. - The international certified course titled 'Solidworks Essentials' is identified and planned to offer in the forthcoming semester. - Submitted for the approval in Academic Council.
	V. Rollout of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities. **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee, Dr.P.Jeyaraj, Academic Expert, Dr.R.Parameshwaran, Alumni insisted to motivate the students to participate the more number of hackathon, design contests and Ideathon etc. to improve the knowledge and skill development which could be useful for placement activities and higher studies. - Submitted for the approval in Academic Council.
	VI. Evaluation pattern for Integrated courses, Project based &System based courses **Discussion/Suggestion:** - As per the suggestion, it is decided to proceed with existing process for evaluation pattern for integrated courses. - Submitted for the approval in Academic Council.
	VII. Internship details of students (2nd,3rd&4thYear) - BoS members suggested to undergo internship from 3rd semester onwards offered by core companies during summer and winter vacations. - Students were completed the internship during 2024-25 academic year(upto ODD semester.(66 students –final year) - Submitted for the approval in Academic Council.

7	**Stake holders feedback and action taken** **Discussion/Suggestion:** The following stake holders (Employer, Alumni, Faculty and Students) have given the feedback related to curriculum design and development. - Mr.Tamilarasan K K., Sakthi Auto Components, Pallagoundampalayam, Tiruppur, suggested to include Mini Projects in the curriculum to improve the critical thinking/ creativity skill of the students. - Mr.Thangabalu, L. G. Balakrishnan& Bros. Ltd., Coimbatore, suggested to explore automotive chain sprockets in the Transmission System of vehicles. - Mr.Nagarajan, TAFE Access Ltd., Chennai, suggested to give exposure to students to read the industrial drawings. - Mr. N. Dinesh kumar Steel Shoppe Pvt., Ltd., Chennai, suggested to include AR/VR related courses in the curriculum to meet the recent technology. - Mr.Manimuthu, Dhoot Transmission Pvt. Ltd., Chennai, suggested to emphasize more on industrial training to get exposure in real time environments. - Mr. Dinesh kumar C, Motherson Group, Chennai, suggested to offer skill training to students in order to improve their proficiency. - Mr.Karthik D, Lincoln Electric, Chennai, suggested to focus on energy efficiency and energy consumption/multi process welding machineries while framing welding related courses. - Mr.Karthick M, Deputy Manager, Operations & Maintenance, AV Thomas Leather, Chennai, suggested to have 'Management' related vertical for the professional elective courses. - Mr.Hemanathan S, BSA Corporation Pvt. Ltd., Chennai, suggested to focus plant layout of plant operations for different product/process. - Mr.Arumugam, KONE Elevator India Pvt. Ltd., Chennai, suggested to emphasize on maintenance of the industrial components against the environmental conditions for enhanced life cycle. - Mr.B. Sarthar(Alumni),Senior Engineer, Hinduja Tech Limited, suggested to incorporate new age engineering concepts and the history behind the inventions in the content of the courses. Also, insisted to do field work in different industries to enhance skill towards placement and entrepreneurship. - Mr.Sandeepan P U (Alumni), Proposal Engineer, Clair Engineers Pvt. Ltd., insisted to focus on preparation of GATE that to from 2nd semester onwards to get through the placement in Govt/Private sector. Communication in additional language is essential (preferably Hindi). **Action Taken**: - Based on the suggestion from stake holder, the contents of course were revised and submitted to Academic Council for further approval.
8	**Any other matters** **Suggestion on ExaminationReforms (Question Paper Reforms - Internal and End Semester Examination)** - Examination pattern can be followed as per the directions from the Head of the Institute since it is common for all the branches.

21.11.24 9/12 12/12/2024

BoS Chairman **Dean/Academics** **Dean/Admin.** **Principal**

P/S attach the curriculum and syllabi of R2026.

KS Rangasamy College of Technology

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Board of Studies Members (as per UGC Recommendations)

Period: 2024-2025

Name of the Board : Mechatronics Engineering
Programme : UG – B.E Mechatronics Engineering
: PG – M.E Industrial Safety Engineering
Venue : Homi. J.Bhabha Hall, Aditya Block Date:19.11.2024

S. No.	Name	Designation as per UGC	Designation / Affiliation with full contact details	Signature
1.	Dr.S.S.Saravanakumar	Chairman	Professor & Head Department of Mechatronics Engineering K.S.Rangasamy College of Technology Tiruchengode-637215, Namakkal District Mail ID: hodmct@ksrct.ac.in Mobile No: 9943442987	19/11/24
2.	Dr. K. Balamurugan	University Nominee	Associate Professor, Department of Mechanical Engineering, Government College of Engineering (IRTT), Erode - 638 316. Mail ID : drkbalamurugan@gmail.com Mobile No. : 91501 66322	ONLINE MODE
3.	Dr.P.Ravichandran	Subject Expert	Professor, Department of Mechatronics Engineering, Kongu Engineering College, Perundurai, Erode-638060 Mail ID : ravichandran@kongu.ac.in Mobile No. : 9965998989	19/11/24
4.	Dr M.Bharathiraja	Subject Expert	Professor, Department of Mechatronics Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode-638 401 Mail ID : bharathiraja@bitsathy.ac.in Mobile No. : 9965175377	9/11/24
5.	Dr.S.P.Sivaprakasam	Subject Expert	Professor & Head, Dept. of Mechanical Engineering, National Institute of Technology, Trichy – 620 015 Mail ID : spshivam@nitt.edu Mobile No. : 9944547215	ONLINE MODE
6.	Mr.S.Karthikeyan	Industry Expert	Technical Head, IobiT Solutions, Bengaluru – 560059 Mail ID : karthikeyansingaram@iobit.in Mobile No. : 8608501021	ONLINE MODE
7.	Mr. K. Akash	Alumni (UG – MCT)	Maintenance Engineer Forvia Clean Mobility India Pvt, Ltd 449A, Pondur Village, Kanchipuram District – 602105 Mail ID: aakash.kirupanantham.akm@forvia.com Mobile No. : 7530040449	—
8.	Dr. A. Ramesh Kumar BoS Coordinator (UG - MCT)	Member	Associate Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : rameshkumar@ksrct.ac.in Mobile No. : 9390063776	19/11/24

S. No.	Name	Designation as per UGC	Designation / Affiliation with full contact details	Signature
9.	Mr.R.Vivek BoS Coordinator (PG - ISE)	Member	Assistant Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : vivekr@ksrct.ac.in Mobile No. : 8072952003	
10.	Dr.N.Tiruvenkadam	Member	Professor Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID: tiruvenkadam@ksrct.ac.in Mobile No: 9944672671	
11.	Dr.C.Vijayakumar	Member	Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : vijayakumarc@ksrct.ac.in Mobile No. : 6379112939	
12.	Dr. M.Sasikumar	Member	Associate Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : sasikumarm@ksrct.ac.in Mobile No. : 9965167985	
13.	Dr.R.Senthilmurugan	Member	Associate Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : senthilmurugan@ksrct.ac.in Mobile No. : 9843488996	
14.	Dr.M.Ravi	Member	Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : ravi@ksrct.ac.in Mobile No. : 9865116888	—
15.	Mrs.V.Indumathi	Member	Assistant Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : indumathi@ksrct.ac.in Mobile No. : 9965137001	
16.	Dr.V.Sundararaju	Member	Professor, Industrial Safety Engineering, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : sundararaju@ksrct.ac.in Mobile No. : 9843324025	—
17.	Deva S (Reg.No. 73772215109)	Student Member (III Year)	Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215	

BoS Chairman

CHAIRMAN
Board Of Studies
Mechatronics Engineering

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Board of Studies Members (as per UGC Recommendations)

Period: 2024-2025

Name of the Board : Mechatronics Engineering
Programme : UG – B.E Mechatronics Engineering
: PG – M.E Industrial Safety Engineering
Venue : Homi. J.Bhabha Hall, Aditya Block Date:19.11.2024

S. No.	Name	Designation as per UGC	Designation / Affiliation with full contact details	e-Sign
1.	Dr. K. Balamurugan	University Nominee	Associate Professor, Department of Mechanical Engineering, Government College of Engineering (IRTT), Erode - 638 316. Mail ID : drkbalamurugan@gmail.com Mobile No. : 91501 66322	
2.	Dr.S.P.Sivaprakasam	Subject Expert	Professor & Head, Dept. of Mechanical Engineering, National Institute of Technology, Trichy – 620 015 Mail ID : spshivam@nitt.edu Mobile No. : 9944547215	
3.	Mr.S.Karthikeyan	Industry Expert	Technical Head, IobiT Solutions, Bengaluru – 560059 Mail ID : karthikeyansingaram@iobit.in Mobile No. : 8608501021	

BoS Chairman 9/11/24.

CHAIRMAN
Board Of Studies/
Mechatronics Engineering

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of the Board of Studies Meeting

Department of Mechatronics Engineering

(UG-MECHATRONICS ENGINEERING & PG-INDUSTRIAL SAFETY ENGINEERING)

BoS Meeting No. 27		**Date: 19.11.2024**		**Venue: Homi.J Bhabha Hall, Aditya Block**

The 27th Board of Studies Meeting of the Department of Mechatronics Engineering was held in hybrid mode on 19.11.2024. The Chairman, BoS of Mechatronics Engineering welcomed and introduced the members of 27th Board of Studies and presented the Regulation 2026 curriculum for the B.E. Mechatronics Engineering program and the Regulation 2025 curriculum and syllabi for the M.E. Industrial.Safety Engineering program to the University Nominee and other subject experts of the Board of Studies.

Agenda:
Vision, Mission, PEO, PSOs of Mechatronics Engineering Programme

Discussions/Suggestions:
Vision, Mission, PEOs, PSOs of Mechatronics Engineering programme were presented and discussed among the members

Vision:
To become a pioneer in producing competent Mechatronics Engineers, researchers and entrepreneurs through quality education

Mission:
- To produce competent and ethically bound Mechatronics professionals by imparting the technical knowledge and skills through quality teaching learning process
- To build an environment that is favourable for employability skills through collaborations with academia and industry
- To groom the students to focus on higher studies, research, entrepreneurship and be committed to the societal welfare and quality of life by creating an effective ecosystem

Program Educational Objectives (PEOs)
PEO1: Core competencies: Our graduates apply engineering knowledge to solve problems in Mechatronics and relevant fields.
PEO2: Employability: Our graduates demonstrate technical and professional skills to ethically address the industrial and societal needs.
PEO3: Higher Studies, Research and Entrepreneurship: Our graduates pursue higher studies, research and entrepreneurship in diverse fields.

Programme Specific Outcomes (PSOs):
Engineering Graduates will be able to:
PSO1: Specify, design and develop automation systems for the given engineering applications.
PSO2: Design and evaluate mechatronic systems using the state-of-the-art equipment and software tools.

Action to be taken:
It was resolved to continue the above mentioned Vision, Mission, PEOs, PSOs for the Mechatronics Engineering Programme

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
1.	Curriculum of UG programme (R2026)	Dr. K. Balamurugan (University Nominee)	Suggested to rename the course from 70 MC 201 – Mechanics for Mechatronics Engineering to 70 MC 201 Engineering Mechanics Suggested not to combine Strength of Materials and Machine Design into a single course as Mechanical Engineering Design Suggested that the course 70 MC 502-Kinematics and Dynamics of Machines to be renamed as 70 MC 502 Mechanics of Machines	As suggested the course is renamed as 70 MC 201 Engineering Mechanics As suggested the courses Strength of Materials and Machine Design are offered separately As suggested the course is renamed as 70 MC 502 Mechanics of Machines	BoS Chairman & Module Coordinator	The necessary corrections are carried out in R2026 Curriculum	Submitted to Academic Council for further Approval
		Dr.M.Bharathiraja (Subject Expert)	Suggested that the course name 70 MC 302 Sensors and Virtual Instrumentation can be revised to 70 MC 302 Sensors and Instrumentation In the view of placement, the courses like Hydraulic and Pneumatic Control Systems for Automation, Industrial Automation Controllers, Embedded System, Robotics Engineering to be completed before 7th Semester	As suggested the course is renamed as 70 MC 302 Sensors and Instrumentation The recommended courses are scheduled prior to the 7th semester	BoS Chairman & Module Coordinator	The necessary corrections are carried out in R2026 Curriculum	Submitted to Academic Council for further Approval
		Dr.P.Ravichandran (Subject Expert)	It is recommended to rename the course 70 MC 304 Foundations and Advances in Manufacturing Technology to 70 MC 304 Manufacturing Processes The course Robotics Engineering should be offered prior to the Drone Technology course	As suggested the course is renamed as 70 MC 304 Manufacturing Processes Following the suggestion, the Robotics Engineering course is scheduled before the Drone Technology course	BoS Chairman & Module Coordinator	The necessary corrections are carried out in R2026 Curriculum	Submitted to Academic Council for further Approval

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
	Curriculum of UG programme (R2026)	Dr.S.P. Sivapirakasam (Subject Expert) Mr. Mr. S. Karthikeyan (Industry Expert)	It is suggested to offer a separate module for Robot Kinematics in the elective course Design of Robot Elements It is suggested to offer the following courses in this order: 1. Microprocessors and Microcontrollers 2. Embedded Systems 3. Internet of Things	As per the suggestion given by the members the module to be incorporated while framing the syllabus The courses have been organized in the suggested order within the curriculum	BoS Chairman & Module Coordinator	The necessary corrections are carried out in R2026 Curriculum	Submitted to Academic Council for further Approval
2.	Curriculum and Syllabi of PG programmes (R2025)	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert) Dr.P.Ravichandran (Subject Expert) Dr.S.P.Sivapirakasam (Subject Expert) Mr. Mr. S. Karthikeyan (Industry Expert)	R2025 Curriculum and syllabi was discussed and the same was approved by Bos Experts	As per the approval of BoS members, the Curriculum and Syllabi has been reframed as per the format	BoS Chairman	The R2025 Curriculum and Syllabi has been incorporated based on the given suggestions	Submitted to Academic Council for further Approval
3.	Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes. Revision in the Curriculum and Syllabi of VIII semester R 2018 of UG Programmes	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert) Dr.P.Ravichandran (Subject Expert) Dr.S.P.Sivapirakasam (Subject Expert) Mr. Mr. S. Karthikeyan (Industry Expert)	Discussions made on curriculum and Syllabi of R2022 and R2018 and no changes were suggested by the members	As per the recommendations of the of BoS committee proceed with this resolved to the same curriculum and syllabi	BoS Chairman & Module Coordinator	It is decided to proceed with same curriculum and syllabi	Submitted to Academic Council for further Approval

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
4.	Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026)	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert) Dr.P.Ravichandran (Subject Expert) Dr.S.P.Sivapirakasam (Subject Expert) Mr. Mr. S. Karthikeyan (Industry Expert)	Discussions made on curriculum & Syllabi of Honor degree and no changes were made Robotics and Automation offered with following courses 60 MC H01 – Medical Robotics 60 MC H02 - AI for Robotics 60 MC H03 - Robot Kinematics and Dynamics 60 MC H04 - Applied and Industrial Robotics 60 MC H05 - Robotic Programming 60 MC H06 - Sensors and Machine Vision Systems	As per the recommendations of the of BoS committee members, proceed with this resolved to the same syllabi	BoS Chairman	It is decided to proceed with same curriculum and syllabi	Submitted to Academic Council for further Approval
5.	List of open elective courses and value-added courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (EVEN Semester)	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert) Dr.P.Ravichandran (Subject Expert) Dr.S.P.Sivapirakasam (Subject Expert) Mr. Mr. S. Karthikeyan (Industry Expert)	Open Elective offered (ODD Semester) - 60 MC L06 Safety and Risk Analytics - 50 MC L12 Safety Measures for Engineers Open Elective offered (EVEN Semester) - 60 MC L04 - Introduction to Occupational Health - 60 MC L05 - Digital Transformation in Manufacturing. Open Elective syllabi was discussed and the same was approved by Bos Experts In AY:2024 -25 (EVEN Semester) value-added course planned to offer is Fusion Autodesk	As per the recommendations for the open elective courses by the BoS committee members, proceed with this resolved to the same syllabi	BoS Chairman	It is decided to proceed with same syllabi	Submitted to Academic Council for further Approval

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
6	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025)	i. Total No. of credits for the UG programme - 165 ii. Curriculum for I to VIII semester UG Courses (R2026) and Recommendations - Presented by BoS Chairman and Same was approved by BoS experts iii. Curriculum for I to IV semester PG Courses (R2025) and Recommendations - Presented by BoS Chairman and Same was approved by BoS experts iv. Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs) - Presented by BoS Chairman, R 2026 Curriculum shall meet the requirements as per the guidelines of AICTE v. Curriculum meeting the requirements of NEP 2020 - Presented by BoS Chairman, R 2026 Curriculum shall meet the requirements as per the requirements of NEP 2020 vi. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills – R 2026 Curriculum was framed by incorporating all the above vii. Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories - Presented by BoS Chairman and Same was approved by BoS experts viii. Introduction of new courses - around 21 new courses is presented by BoS Chairman As per the discussions, it is resolved to continue with 165 credits for B.E. Mechatronics Engineering in R2026 and submitted to Academic Council for further approval				
7.	Discussion on Choice Based Credit System	I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Odd Semester) are Principles of Hydraulic Machines and System Design (64), Intelligent Feedback and Control (46) and Advanced Machining Processes (30). Also it is planned to offer in Even Semester of 2024-25 - Based on the student's interest as well as in line with their course pertaining to study, UG & PG students may enroll the SWAYAM / NPTEL / MOOC courses II. ONE Credit course offered in 2024-25 (Odd Semester) - Nil and planned to offer by industry in 2024-25 (Even Semester) **One Credit Course** - Planned to offer course (Even Semester) on topic **"Digital Twin Technology"** and MOU was Signed with PRAYA LABS, Tiruvanamalai III. Skill based courses offered in 2024-25(ODD semester) – Solid Works, LabView and planned to offer 2024-25 (Even Semester) – MATLAB, Arduino IV. International Certification completed in 2023-24 with credits - Members suggested to motivate the students to enrol for International Certification and enjoy their learning V. Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc. VI. Evaluation & course outcome plan for integrated courses, Project Based & System Based Courses VII. Internship details of students (2nd, 3rd & 4th Year). In 2nd Year-46 Students & 3rd Year -52 students were completed the internship As per the discussions, it is resolved to submit the proposal to Academic Council for further approval				
8.	Stake holders feedback and action taken	Mr. K. Duraiswami, Senior Manager, JSW Steel Limited, Salem suggested that in the R2026 Manufacturing Course, IoT based production topics may be included Action Taken: The above Stake holders' suggestion is incorporated in the Manufacturing Processes course and submitted to Academic Council for further approval					

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
9.	Suggestions from IQAC	Value Added Courses focusing on women's empowerment i) Women Health & Human Rights through Coursera ii) Gender Equality through Inclusive Design through Coursera iii) Gender Equality and Women Empowerment through Udemy **Minor Degree**: a) Offering a minor degree in Machine Learning, Data Science and Artificial Intelligence to students of non-circuit branches like Mechatronics Engineering,					
10.	Any other matters	Examination pattern can be followed as per the directions from the Head of Institute, since it is common for all the branches NCC as additional Credit Waiver in R2022 is discussed with BoS experts and the same was approved by BoS members and submitted to Academic Council for further approval					

BoS Chairman 16/12/24.

Dean - Academics 17/12

Dean - Admin 17/12/2024

Principal 17/12

17/12/24

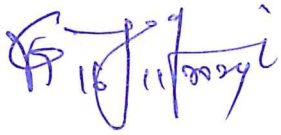
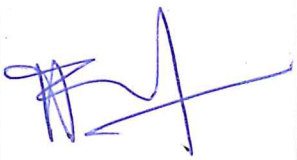
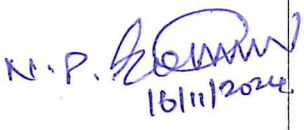
KS Rangasamy College of Technology

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215
(An Autonomous Institution, Affiliated to Anna University Chennai)

Department of Electrical and Electronics Engineering

27th BOS Meeting Attendance

Date: 16.11.2024

S. No	Name	Representation	Signature
1.	Dr.G.Vijaya Gowri	Chairman, Professor & Head EEE Department K.S.Rangasamy College of Technology Tiruchengode-637215 Namakkal District Tamil Nadu Mail ID : hodeee@ksrct.ac.in Mobile No: 9080581485	
2.	Dr. S.Thangavel	External Subject Expert, Dean (Academics), Department of EEE, NIT, Thiruvettakudi, Karaikal, Puducherry – 609 609 Mail ID: Thangavel.s@nitpy.ac.in Mobile No:9443676688	
3.	Dr. N. P. Subramaniam	External Subject Expert, Associate Professor, Department of EEE, Puducherry Technological University, Puducherry Mail ID: npsubbu@ptuniv.edu.in Mobile No:9486441444	
4.	Dr. K. Udhayakumar	Alumni, Professor, Department of EEE, Anna University, Chennai E-Mail: k_udhayakumar@annauniv.edu Mobile: 9940356662	ONLINE MODE
5.	Dr. V. Sankaranarayanan	Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli – 620 015 Mail ID: vsankar@nitt.edu Mobile No: 94876 27002	
6.	Er. Kalaiyarasan K	Lead Commissioning Engineer, H&MV Engineering Company, Bangalore, Mail ID: k.kalaiyarasan@gmail.com, Mobile No: 9791915762	

7.	Dr.M.K.Elango	BoS Coordinator, Professor, Department of EEE E-Mail: elango@ksrct.ac.in Mobile: 9952493666	16/11/24
8.	Dr. P. Premkumar	Senior Faculty, Professor, Department of EEE E-Mail: premkumar@ksrct.ac.in Mobile: 9790666007	
9.	Dr.T.Venkatesan	Module Coordinator, Professor, Department of EEE E-Mail: venkatesan@ksrct.ac.in Mobile: 9942012455	16/11/24
10.	Dr.R.Balamurugan	Module Coordinator, Associate Professor, Department of EEE E-Mail: balamurugan@ksrct.ac.in Mobile: 9790031900	16/11/24
11.	Dr.D.Sri Vidhya	Module Coordinator, Associate Professor, Department of EEE E-Mail: srividhya@ksrct.ac.in Mobile: 9952134279	16/11/24
12.	Mr.S.Srinivasan	Senior Faculty, Assistant Professor, Department of EEE E-Mail: srinivasan@ksrct.ac.in Mobile: 9994143687	16/11/24
13.	Ms.R.Radhamani	Senior Faculty, Assistant Professor, Department of EEE E-Mail: radhamani@ksrct.ac.in Mobile: 9543167875	16/11/24
14.	M. Jayasree	Student, 7377112117, IV Year EEE, K.S.Rangasamy College of Technology E-Mail:jayasreemohanraj3@gmail.com Mobile: 7598196303	16/11/24
15.	C. Tivith	Student, 73772212154, III Year EEE, K.S.Rangasamy College of Technology E-Mail: tivithpoongodi@gmail.com Mobile: 9345426277	16/11/24

BoS Chairman

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215
(An Autonomous Institution, Affiliated to Anna University, Chennai, Approved by AICTE, NewDelhi)
Minutes of the Board of Studies Meeting
Department of Electrical and Electronics Engineering (UG & PG)

	BoS Meeting No: 27			Date: 16.11.2024		Venue: HoD Chamber, Dept of EEE	
S. No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum of UG programme (R2026)**	Dr. V. Sankaranarayanan University Nominee	Draft Curriculum of R2026 were presented and the following changes to be made based on the suggestion given by members **Suggestion given :** i. C – Programming Laboratory Course name may be changed as Programming Laboratory to include C, C++ & Python Language programming concepts ii. Foundational English I course name may be changed as Foundational English iii. Foundational English II course name in Language elective may be changed as Communicative English iv. Chemistry for Electronics Engineering Course name may be changed as Engineering Chemistry	Curriculum updated as Programming Laboratory, Foundational English & Engineering Chemistry Communicative English Course has been included in Language Elective	BoS Chairman	Updated in R2026 Curriculum	Submitted for the approval of Academic Council
		Dr. S. Thangavel Subject Expert	May follow the thumb rule for preparing Integrated Course: ✓ If the course has tutorial component, practical may be framed as separate course	Thumb rule has been followed in Curriculum of R2026	BoS Chairman	Updated in R2026 Curriculum	Submitted for the approval of Academic Council
		Dr. N. P. Subramaniam Subject Expert	Data Structures may be considered as Integrated course	As per the suggestions Data Structures course is modified as Integrated Course	BoS Chairman	Recommended to be implemented in R2026	

2	**Curriculum and Syllabi of PG programme (R2025)**	Dr. S. Thangavel Subject Expert Er. K. Kalaiyarasan Industry Expert	Curriculum of R2025 and syllabus were presented and the following changes to be made based on the suggestion given by members **Suggestion given :** • Advanced core electives may be added • Softwares apart from Matlab may be planned for Power system laboratory	As per the suggestion Elective courses and core courses with hands on has been included in R2025	BoS Chairman	Updated in R2025 Curriculum	Submitted for the approval of Academic Council
3.	**Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes and PG Programmes** **Revision in the Curriculum and Syllabi of VIII semester R 2018 of UG Programmes**	Dr. S. Thangavel Subject Expert Er. K. Kalaiyarasan Industry Expert Dr. K. Udhayakumar Alumni Dr. V. Sankaranarayanan University Nominee Dr. N. P. Subramaniam Subject Expert	Based on the recommendation of DAB meeting, revision in the following course syllabus has been discussed. i. 60EE502 – Control Systems: Module 1: Tacho generator, stepper motor and servo potentiometers may be removed. Module 4: Design of lag, lead and lag-lead compensators using Bode plot may be removed. ii. 60EE5P1 – Control and Virtual Instrumentation Laboratory: ✓ Compensating Networks – Characteristics may be removed. ✓ Perform basic arithmetic operations using Labview and Implementation of Array functions using Labview may be combined as Perform the basic operations and functions using Labview. iii. 60EE402 – Linear Integrated Circuits and its Applications: ✓ Op-Amp effects on practical applications may be added ✓ Emphasis on Active Filter	All members agreed the same and recommended	BoS Chairman and Module Coordinator	Revised the Syllabus and Course code	Submitted for the approval of Academic Council

			Design using modern ICs may be given. iv. 60 EE E22 – Internet of Things may be changed as Principles of IoT and its Applications. v. 60PPS301 – HVDC and FACTS: Module 1: Types and definitions of FACTS controllers - advantages and disadvantages may be added. Module 4: Analysis of bridge converters with and without overlap period. – Period may be included for clear instructions vi. 50EEE53 – Wind and Solar Energy System: LVRT & new trends for new Grid Codes may be added for understanding the Wind power Plant integration with grid				
4.	**Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026)** The proposed Curriculum and Syllabi for Honour / Minor Degree programmes (R2022 & R2026) were presented by BoS Chairman. **Suggestions:** Students can opt any 6 additional Courses (Elective courses and Self-learning courses) for a total credit of 18 in R2022 and R2026 for Honor and Minor Degree. **Action taken** The proposed curriculum and syllabi for the Honour Degree programmes (R2022 & R2026), presented by the BoS Chairman, were passed in the meeting and submitted for approval in the Academic Council meeting.						
5.	**List of open elective courses and value-added courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester)** **Open Electives offered:** 1. 60EEL04 – Sensor Technology **Open Elective planned to offer:** 1. 60EEL03 – Graphical System Interface using LABView 2. 60EEL03 – Electric Vehicle Technology **Value added courses offered:** 1. PCB Design 2. Arduino Programming **Vale added courses planned to offer:** 1. PCB Assembly and Testing 2. MATLAB Foundation						

	List of open electives and respective Syllabi were presented **Action taken** Dr. V Sankaranarayanan, (University Nominee) Dr. S. Thangavel (Subject Expert) & Dr.K. Kalaiyarasan (Industry Expert) appreciated the list of open elective courses and value - added courses suggested by BoS Chairman and submitted for the approval in Academic Council Meeting.
6	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes:**
I.	**Total No. of credits for the UG programme** Total No. of credits for the UG programme is 161 BoS Committee approved and submitted to academic council for further approval
II	**Curriculum for I to VIII semester Courses (R2026) and Recommendations Suggestions By Members:** While merging laboratory component with theory, both practical and theory part may be given equal weightage. In addition, Members appreciated that the curriculum framed meets out the syllabus for GATE examination and the courses are so planned to include either practical component in the theory course or to have separate practical course with optimum credits **Action Taken** Based on the suggestions from the BoS members, the modifications have been made, BoS Committee approved the same and it is submitted to the Academic Council for approval.
III	**Curriculum for I to IV semester Courses (R2025) and Recommendations** Proposed Curriculum of R2026 were presented. Total No. of credits for the PG progrmme is 72. BoS Committee approved and submitted to academic council for further approval
IV	**Curriculum and syllabi to support progression to higher education, career guidance, startups & entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs).** Dr. V Sankaranarayanan, (University Nominee) Dr. K. Udhayakumar (Subject Expert) & Dr.N.P. Subramaniam (Subject Expert) appreciated that, the Curriculum and Syllabus support the progression to higher education, career guidance, startups; entrepreneurship; cross cutting issues and Sustainable Development Goals (SDGs). BoS Committee approved the same and it is submitted to the Academic Council for approval.
V	**Curriculum meeting the requirements of NEP 2020** External Members appreciated that, the Open Electives, Language Electives, Minor/Honor Degree, NSS/NCC & Additional Credits of the proposed curriculum and regulation satisfies the requirement of NEP 2020. BoS Committee approved the same and it is submitted to the Academic Council for approval.
VI	**Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills** Dr. K. Udhayakumar (Subject Expert), Dr.N.P. Subramaniam (Subject Expert), Dr. V Sankaranarayanan, (University Nominee) appreciated that the Department Curriculum and Syllabus supports the student involvement in innovative, design, critical thinking abilities and their problem-solving skills. BoS Committee approved the same and it is submitted to the Academic Council for approval.
VII	**Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories.** The following courses are identified for virtual laboratory for teaching learning process. • Electric Circuit Analysis – IIT Kharagpur • Analog Circuits and Systems – IIT Roorkee • Electrical Machines – I – IIT Guwahati • Electrical Machines – II – IIT Guwahati BoS Committee approved and submitted to academic council for further approval
VII	**Introduction of new courses** • Language Elective BoS Committee approved and submitted to academic council for further approval

7.	Discussion on Choice Based Credit System
I	**Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even Semester)** **NPTEL Courses Completed in 2024 -25 Odd Semester:** 1. Introduction to Industry 4.0 And Industrial Internet of Things 2. Introduction to Internet of Things 3. Cloud Computing **NPTEL Courses planned Completed in 2024 -25 Odd Semester:** 1. FACTS Devices 2. Fuzzy Sets, Logic and Systems & Applications 3. Industrial Automation and Interfacing 4. Introduction to Industry 4.0 And Industrial Internet of Things 5. Introduction to Internet of Things 6. Cloud Computing Dr. V Sankaranarayanan, (University Nominee) Dr. S. Thangavel (Subject Expert), Dr.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) approved the list of NPTEL courses to be offered in even Semester and it is submitted for the Academic Council for further approval.
II	**One credit course offered in 2024-2025 (ODD Semester) and planned to offer in 2024-225 (Even Semester)** **One credit course offered in 24-25 Odd semester:** 1. 60EESE01 – Hardware Integration Using Graphical Programming 2. 60EESE02 – STM32 Microcontroller: Fundamentals and Development **One credit course Planned to offer in 24-25 Even semester** 1. LoRA WAN Architecture in IoT 2. Electrical CAD Dr. V Sankaranarayanan, (University Nominee) Dr. N.P. Subramaniam (Subject Expert), Dr.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) approved the one credit course to be offered in Even Semester and it is submitted for the Academic Council for further approval.
III	**Skill based courses offered in 2024-25(ODD semester) and planned to offer 2024-25 (Even Semester)** **Skill Based courses offered in 2024-25 Odd Semester:** 1. Arduino 2. LABView **Skill Based courses planned to be offered in 2024-25 Even Semester:** 1. MATLAB Programming for Electrical Engineering Dr. S. Thangavel (Subject Expert), Dr.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) approved the list of Skill Based courses to be offered in Even Semester and it is submitted for the Academic Council for further approval.
IV	**International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters** International Certification courses are not yet completed by any students. Students may take the international certifications in the forth coming semester. Dr. V Sankaranarayanan, (University Nominee) Dr. N.P. Subramaniam (Subject Expert), Dr.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) suggested to motivate the students to do CLAD Examination for International certification. BoS Committee approved the same and it is submitted to the Academic Council for approval.

V	**Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities.** Roll out of laboratories classes to make students to participate in Design contest is identified the following course: 1. Linear and Digital Integrated Circuits Laboratory – Hackathon Dr. S. Thangavel (Subject Expert), Dr.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) approved and it is submitted for the Academic Council for further approval.
VI	**Evaluation pattern for Integrated courses, Project based & System based courses** Dr. S. Thangavel (Subject Expert), Dr.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) suggested to follow the same assessment pattern for the integrated courses.
VII	**Internship details of students (2nd , 3rd & 4th Year)** Internship for Students (2nd, 3rd & 4th Year): The number of internships undergone internship: 3rd Year – 67 & 4th Year - 125 All members appreciated and suggested to follow the mandatory internship policy and satisfy the requirements as per AU norms.
8.	**Stake holders feedback and action taken** • Deepakkumar Murugan, Head of Operation and HR, Bitscrunch Technologies, Belgium – Suggested that, C++ and Python can be combined in one subject and also introduced in skill based courses. • Durai gowtham, Commissioning Specialist, General Electric Power Conversion – Suggested that, Software skills related to core subjects such as embedded systems, MATLAB, LabVIEW will be an added advantage for placement • Hasini, Associate HR Manager, GE Power Conversion Chennai – Suggested to Introduce AI based courses in Power System Applications **Action Taken** Based on the suggestion from stakeholders, the curriculum has been revised and submitted to academic council for approval.
9.	**Suggestions from IQAC** Value Added Course focusing on women empowerment may be chosen as Gender Equality through Inclusive Design from Coursera
10.	**Any other matters** • **Suggestion on Examination Reforms (Question Paper Pattern – Internal and End Semester Examination, etc.,)** Multiple Choice questions may be included in the End Semester pattern as quizzes are being conducted for Continuous assessments and have the same pattern in both Continuous assessments and end semester exam. • **Suggestions and permission to start new programmes in thrust areas:** Dr. S. Thangavel (Subject Expert) suggested to start new programme in the area of E Mobility

Chairman BoS / EEE

Dean Academic

Dean Administration

Principal

Annexure - I

K.S. RANGASAMYCOLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(Autonomous Institution Affiliated to AnnaUniversity, Chennai)

DEPARTMENT OF ECE

MEMBERS OF BOARD OF STUDIES (BOS) MEETING - 27

(Period: NOV 2024)

Date: 16.11.2024 **Time: 10.00 AM**

Venue: ECE Board Room (Hybrid mode)

Meeting link:
https://teams.microsoft.com/l/meetupjoin/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1731566879080?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

Department	Electronics and Communication Engineering (UG & PG)		
Programme & Duration	B.E (Electronics & Communication), 4 years, M.E (VLSI Design), 2 years		
Sl. No.	Name, Designation & Address	Position	Signature
1.	Dr.C.Rajasekaran Professor / ECE K.S.Rangasamy College of Technology.	Chairman	
2.	Dr.P.Palanisamy Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Member- Subject Expert (Nominated by Anna University	16.11.2024
3.	Dr.Ashok Rao Former Head, Network Project, CEDT, IISc, 165,11th Main, Saraswathipuram, Mysore -570 009, Karnataka.	Member- Subject Expert (Nominated by Academic Council)	—
4.	Dr. P.T. Vanathi Professor, Department of ECE, PSG College of Technology, Coimbatore- 641004.	Member- Subject Expert (Nominated by Academic Council)	
5.	Mr.Balakumar Chinnusamy Sr. Vice President - HR VVDN Technologies Pollachi - 642 001.	Member-Industry Expert (Nominated by the Principal)	Attended through online
6.	Mr.S.Babu Ramki AI Systems and Solutions Engineer, Intel Technology India Pvt. Ltd. Bengaluru – 560 103.	Member-Alumni (Nominated by the Principal)	S Babu Ramki
7.	Dr.K.B.Jayanthi Professor and Dean Academics / ECE K.S.Rangasamy College of Technology	Member	
8.	Dr.P.Babu Professor/ECE	Member	
9.	Dr.S.Malarkhodi Professor/ECE	Member	
10.	Dr.T.Baranidharan Professor/ECE	Member	

11.	Mrs.S.S.Thamilselvi Associate Professor/ECE	Member	
12.	Ms.C.Saraswathy Associate Professor/ECE	Member	
13.	Mrs.K.Vanitha Assistant Professor/ECE	Member	
14.	Mrs.M.Devaki Assistant Professor/ECE	Member	
15.	Dr.D.Mugilan Assistant Professor/ECE	Member	
16.	Mr.S.Saravanan Assistant Professor/ECE	Member	
17.	Abinesh.G Student/IV year ECE	Member	
18.	Kirithiga.G Student/III year ECE	Member	

BoS Chairman

Annexure - I

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(Autonomous Institution Affiliated to Anna University, Chennai)

DEPARTMENT OF ECE

MEMBERS OF BOARD OF STUDIES (BOS) MEETING - 27

(Period: NOV 2024)

Date: 16.11.2024 Time: 10.00 AM

Venue: ECE Board Room (Hybrid mode)

Meeting link:
https://teams.microsoft.com/l/meetupjoin/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1731566879080?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

Virtual Attendance

Department	Electronics and Communication Engineering (UG & PG)		
Programme & Duration	B.E (Electronics & Communication), 4 years,M.E (VLSI Design), 2 years		
Sl.No.	Name, Designation & Address	Position	Signature
1.	Mr.Balakumar Chinnusamy Sr. Vice President - HR VVDN Technologies Pollachi - 642 001.	Member - Industry Expert (Nominated by the Principal)	10:13:14 AM

K. S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215

(Autonomous)

AGENDA for BoS Meeting

2024 – 2025 (ODD SEMESTER)

Name of the Body	Board of Studies (BoS) Electronics and Communication Engineering - UG and PG
Meeting No	27
Date & Time	16.11.2024 & 10.00AM
Venue	ECE meeting Hall (Hybrid mode)
Meeting link	https://teams.microsoft.com/l/meetupjoin/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1731566879080?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

The list of members attended the meeting is given in **Annexure - I.** The Agenda discussed is given below:

S.No.	ITEMS
1.	Proposed Curriculum of R2026 UG and Curriculum and syllabi of R2025 PG.
2.	Revision in the Curriculum and syllabi of I to V semester R2022 and VIII Semester R2018 of UG.
3.	Curriculum and syllabi for Minor and Honors degree programmes (R2022 and R2026).
4.	List of open elective courses and value-added courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even semester)
5.	Discussion on Proposed Curriculum of I to VIII Semester for R2026 (UG) and I to IV Semester for R 2025 (PG) I. Total no. of credits for the UG programme II. Curriculum for I to VIII Semester courses of R2026 and Recommendations III. Curriculum for I to IV Semester courses of R2025 and Recommendations IV. Curriculum and syllabi to support progression to higher education & career guidance and Start-ups & Entrepreneurship and cross cutting issues and Sustainable Development Goals (SDGs) V. Curriculum meeting the requirements of NEP 2020 VI. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and problem solving skills VII. Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories VIII. Introduction of new courses
6.	Discussion on Choice Based Credit System I. Self-study courses SWAYAM/NPTEL/MOOC courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester) II. One credit courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester) III. Skill based courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester) IV. International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters. V. Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon and Ideathon, and similar activities. VI. Evaluation pattern for integrated courses, Project based & System Based Courses VII. Internship details of Students (2nd, 3rd & 4th Year)
7.	Stake holders feedback and action taken report
8.	Suggestion from IQAC
9.	Any other matters • Suggestions on Examination Reforms (Question Paper Pattern – Internal and End Semester Examination, etc.,) • Suggestions and permission to start new programmes in thrust areas

Minutes of the Board of Studies Meeting
Department of ECE

	BoS Meeting No:27			Date: 16.11.2024		Venue:	ECE meeting Hall + Microsoft Teams platform
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
The BoS Chairman welcomed all the members for the meeting. The items listed in the agenda are taken for discussion one by one. Rough draft of I to VIII semester curriculum of R2026 is prepared with the inputs received from different stakeholders and referring the other Universities. The same is presented for discussion in the meeting. The minutes of the meeting are as follows:							
1a.	**Curriculum of I and VIII Semester R2026 of UG**		**Semester I**	As per the suggestions received from BoS members, the following changes are done.	BoS Chairman	Curriculum of I semester of R2026(UG)	Submitted to the academic council for further approval
		Dr. P. Palanisamy (Nominated by University)	➢ Suggested to remove the word 'Basic' from the course 'Basic Electrical Engineering'.	➢ The word 'Basic is removed from the course 'Basic Electrical Engineering'.			
			➢ Tamil courses may be given credits.	➢ The suggestion on Tamil course credits is submitted for further approval.			
			➢ The course 'IDEA Lab Workshop' may be given credits and it may be kept as a Lab course.	➢ The course 'IDEA Lab Workshop' is given 2 credits and it is introduced as a Lab course.			
			➢ The course 'Design thinking' may be offered from second semester.	➢ The course 'Design thinking' is moved to second semester.			
			➢ Suggested to offer separate laboratory for the course 'Electrical Engineering'.	➢ A laboratory course 'Electrical Engineering Laboratory' is introduced in the first semester.			
		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	➢ Suggested to look at the word 'design' in the course name of the course 'Engineering Graphics & Design' and rename the course as it is offered in the	➢ The course 'Engineering Graphics & Design' is renamed with 'Engineering Graphics' and it is			

			first semester.	offered in the semester II for workload balancing.			
		Dr. P. Palanisamy (Nominated by University) Mr. Balakumar Chinnusamy (Industry Expert)	**Semester II** ➢ Suggested to mention the language that the students are going to study in the course 'Programming for Problem Solving'. ➢ The students from the background of the computer science and mathematics in their +2 may feel difficult to study the course 'Biology for Engineers' and also suggested to move this course to Professional Elective. ➢ Students may be taught 'C++' along with 'C'	➢ The course 'Programming for Problem Solving' is renamed with 'C Programming'. ➢ The course 'Biology for Engineers' is moved to Professional Elective. ➢ It will be done while framing syllabus.	BoS Chairman	Curriculum of II semester of R2026(UG)	Submitted to the academic council for further approval
		Dr. P. Palanisamy (Nominated by University) Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	**Semester III and Semester IV** ➢ Suggested to change the name of the laboratory course 'Analog Circuits Laboratory' to 'Electronic Circuits Laboratory' as the corresponding theory course is given as 'Electronic Circuits'. ➢ All the Laboratory courses may be offered with minimum 1.5 credits instead of 1 credit. ➢ The course 'Electronic Devices' may be moved to semester I. ➢ The course 'Network theory' may be moved to	➢ The laboratory course 'Analog Circuits Laboratory' is combined with Digital circuits laboratory and offered as 'Analog and Digital Electronics Laboratory' for workload balancing. ➢ The laboratory courses are offered with 1.5 credits. ➢ The suggestion will be considered while finalizing the curriculum for R2026. ➢ The course 'Network theory' is	BoS Chairman	Curriculum of III and IV semester of R2026(UG)	Submitted to the academic council for further approval

			Semester II as it should be learnt prior to Electronic Circuits. Similarly, the course 'Signals and Systems' may be moved to Semester IV.	moved to Semester II. ➢ The suggestion on 'Signals and Systems' will be considered while finalizing the curriculum for R2026.			
		Dr. P. Palanisamy (Nominated by University)	➢ The course 'Electromagnetic Waves' may be moved to Semester III. ➢ The course 'Linear Integrated Circuits' may be renamed as 'Analog Integrated Circuits'. ➢ The part Electromagnetics in the lab course 'Linear Integrated Circuits and Electromagnetics Laboratory' may be removed.	➢ The course 'Electromagnetic Waves' is moved to Semester III. ➢ The course 'Linear Integrated Circuits' is offered with the same nomenclature as the course 'Electronic Circuits' is offered in semester III. ➢ The part Electromagnetics in the lab course 'Linear Integrated Circuits and Electromagnetics Laboratory'.is removed.			
			Semester VI and Semester VII		BoS Chairman	Curriculum of VI and VII semester of R2026(UG)	Submitted to the academic council for further approval
		Dr. P. Palanisamy (Nominated by University)	➢ The course 'Machine Learning Techniques' may be moved to Professional Elective as it is allied for ECE Students.	➢ The suggestion will be considered while finalizing the curriculum for R2026.			
		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	➢ In place of it, the course 'Mobile Communication and Networks'/'Wireless Communication' may be offered as it is needed for placement.	➢ The course 'Mobile Communication and Networks' is offered in semester VI.			
		Dr. P. Palanisamy (Nominated by	➢ The course 'Antenna and Microwave Engineering'	➢ The discussion is being done and			

		University)	may be separated. ➢ The concepts such as 'Antennas' and 'Transmission lines' may be taught in one course. ➢ The course 'Microwave Engineering' may be offered as separate course and this may be renamed as 'Microwave Components and Circuits'.	suggestion will be considered while finalizing the curriculum for R2026.			
		Mr. Balakumar Chinnusamy (Industry Expert)	➢ The course 'Mini project' may be renamed with 'Reverse Engineering Lab'. ➢ Suggested to include the course related to 'Manufacturing Practices'	➢ The course 'Mini project' is renamed with 'Reverse Engineering Lab' in Semester VI. ➢ Drafting of the syllabus with industry expert Mr. Balakumar Chinnusamy is in progress through mail for 'Manufacturing Practices'.			
		Dr. P. Palanisamy (Nominated by University)	**Semester VIII** ➢ Suggested to look into the need of the 'Professional Elective course' in the 8th semester as most of the students are going for internship during this period.	It was replied by the Dean (Academics) and BoS chairman that most of the students will be waiving this Professional Elective V.	BoS Chairman	Curriculum of VIII semester of R2026(UG)	Submitted to the academic council for further approval
1b.	**Curriculum of R2025(PG)**	Mr. S. Babu Ramki (Alumni)	➢ Suggested to move the course 'ASIC design' from Professional Elective to Core. ➢ The core courses such as 'Data Convertors IC Design', 'Electronic Design Automation' and 'Low Power VLSI Design' may be moved to Professional	➢ The course 'ASIC Design' is moved to Professional Core. ➢ The course 'Data Convertors IC Design' is moved to Professional Electives group V in semester III.	BoS Chairman	Curriculum of R2025(PG)	Submitted to the academic council for further approval

			Electives group.	➢ The Anna university nominee insisted that the course 'Low Power VLSI Design' is important for PG (VLSI Design). So, it is kept in the core itself.			
		Dr. P. Palanisamy (Nominated by University)	➢ The course related to 'VLSI Hardware verification and methodologies' may be offered as a Professional Elective course.	➢ The course on 'Design for verification using UVM' is offered in the Professional Elective IV group in semester II.			
			➢ Adaptive signal processing course may be removed or offered for the students who only graduated in ECE in their UG as the other background graduates may feel difficult to study this course.	➢ As per the suggestion given by the BoS member, it is decided that the students who only graduated in ECE in their UG may be given choice to take Adaptive signal processing offered in Professional Elective VI group. Others will be allowed to take other courses offered in the same Elective group.			
2.	i) **Revision in the curriculum and Syllabi of I to V semester R2022 (UG)** ii) **Revision in the Syllabi of VIII Semester - R2018 (UG)**	-	There are no changes in the curriculum and syllabi of R2022 and R2018.	Based on the suggestions from BoS members, it is decided to follow the existing curriculum and syllabi of R2018 and R2022.	-	-	Submitted to the academic council for further approval
3.	**Curriculum and syllabi for Minor and Honours degree programmes (R2022 and R2026).**	Dr. P. Palanisamy (Nominated by University)	**Professional Elective Courses: Verticals / Honours Degree – R2026** ➢ Suggested to ensure that the Professional elective	➢ There are 8 courses given in each	BoS Chairman	Curriculum of Honours degree courses - As per the suggestions, new	Submitted to the academic council for further approval

			courses in each vertical are not overlapped and the number of courses in each vertical may be at least 7 to 8.	vertical in the Professional elective courses and ensured that there is no course repeated in each vertical group.		professional elective courses based on recent technologies have been included in verticals.	
			➢ Suggested to bring the courses related to Artificial Intelligence and Data Science.	➢ The vertical Computational Intelligence is introduced with the courses related to Artificial Intelligence and Data Science.			
			➢ The course 'Wireless Sensor Network Design' may be moved under 'Wireless Communication Technologies'.	➢ The course 'Wireless Sensor Network Design' is removed as the redundant course 'Adhoc and Wireless Sensor Networks' is offered under the vertical 'Wireless Communication Technologies'.			
		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	➢ Students may also be allowed to take courses across the verticals offered for Honour – without specialization.	➢ Permission received from the BoS members for students to take Honours degree courses across the verticals offered for Honour – without specialization.			
			➢ Only 4 verticals in the Professional electives may be offered.	➢ There are 5 verticals with 8 courses in each vertical are given as five Professional Electives are offered in R2026.			

			➢ Have 'Semiconductor Technologies' as a separate vertical.	➢ The new vertical 'Semiconductor Chip Design' is offered in which all the concepts related to 'Semiconductor Technologies' will be covered while framing the syllabus.			
		Dr. P. Palanisamy (Nominated by University) Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	**Minor Degree (Internet of Things) – R2022/R2026** ➢ Suggested to offer the courses related to IoT for the ECE students. ➢ Suggested to emphasize the concepts related to IoT Healthcare and Cloud Computing.	➢ The vertical 'Sensor Technologies and IoT' is offered in which the courses such as 'Internet of Things and its Application', 'IoT Hardware',' IoT Product Development' and 'Industrial IoT and Industry 4.0' are offered. ➢ These concepts are already given in the course 'IoT Hardware' in R2022. The same will also be followed in R2026 while framing the syllabus.	BoS Chairman	Curriculum of minor degree courses	Submitted to the academic council for further approval
4.	**List of open elective courses and value-added courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even semester)**	All BoS members	The list of open electives and value-added courses are listed by the BoS chairman and all BoS members accepted the same ➢ Suggested to offer 5G Communications and MIMO for ECE students as a Core course/Elective course.	Based on the suggestions, the courses such as '5G Communication Networks' and 'Massive MIMO Networks' are offered in R2022 as the Professional Elective	BoS Chairman	Curriculum of R2026(UG)	Submitted to the academic council for further approval

				courses. A professional elective course on '5G Communications and MIMO' is offered under the vertical 'Wireless Communication Technologies' in R2026.			

5a. Discussion on Proposed Curriculum of I to VIII Semester for R 2026 (UG)

I. **Total No. of credits for the UG programme** -164

II. **Curriculum for I to VIII Semester courses of R2026 and Recommendations**

The proposed curriculum of I to VIII Semester for R2026 (UG) are finalized according to the suggestions given by BoS Members.

III. **Curriculum and syllabi to support progression to higher education & career guidance and Start-ups & Entrepreneurship and cross cutting issues and Sustainable Development Goals (SDGs)**

Higher Education (%)	Career Guidance (%)	Entrepreneurship (%)
31.7 (GATE courses)	93.29 (Core and open electives) + CCD	15.8

IV. **Curriculum meeting the requirements of NEP 2020**

The following courses are offered for students in order to meet the requirements of NEP 2020

- Multidisciplinary – Open elective courses (Stock Trading, Java, Python, Web design and Agricultural Engineering etc.).
- Skill Enhancement Courses (SEC) – CSD (Carrier skill development from semester II to VI)
- Value Added Courses – One credit courses
- Summer Internship – Mandatory 6 weeks internship with additional credits
- Research Project / Dissertation – Project phase I & II, Research Skill Development (Audit course)
- The department integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values and Environment and Sustainability into the Curriculum through the courses such as Universal Human Values and Environmental Studies and Climate Change.

V. **Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and problem solving skills**

Design Thinking (%)	Critical Thinking Skills (%)	Problem Solving Ability (%)
20 (ALL CORE LABS)	54 (question paper based)	26 (Tutorial courses)

VI. **Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories**

a) **Virtual Laboratory**

Name of Course with Code	Semester	Name of Institution / Open Source Tools
60 EC 5P2 - VLSI Laboratory	V	IIT Guwahati – Digital VLSI Design virtual laboratory link
60 EC 5P3 -Signal Processing Laboratory	V	IIT Kharagpur – Digital signal Processing virtual laboratory link
50 EC 7P1 – Communication and Networks laboratory	VII	IIT Bombay – Computer Networks virtual laboratory link

b) **Industry sponsored/supported courses and laboratories**

- IoT laboratory is supported by Enthu technology Solutions India Pvt Ltd, Coimbatore.
- Electronic Circuit Design laboratory is supported by Tessolve Semiconductors Pvt. Ltd, Bengaluru.
- Embedded systems laboratory is supported by Salieabs Solutions LLP, Salem.
- VLSI Design laboratory is supported by VLSI Mentors, Bengaluru.

VII. a) New courses offered in R2022

Course Name		
Innovation Engineering Laboratory	Medical Imaging Systems	Computer Vision: Algorithms and Applications
RF Laboratory	Wireless Sensor Network Design	Wireless Body Area Networks
Wearable Devices	5G Communication Networks	Micro Electro Mechanical Systems
IoT Hardware	Brain Computer Interface and Applications	Rocketry and Space Mechanics
Data Science	Industrial IoT and Industry 4.0	Software Defined Networks
IoT Product Development	Remote Sensing	Biomedical Instrumentation
Wireless Broad Band Networks	Advanced Wireless Communication Techniques	

b) New courses offered in R2026

- IDEA Lab Workshop
- Electrical Engineering
- Electrical Engineering Laboratory
- Design Thinking
- Micro Project

The BoS members approved the curriculum of R2026 and curriculum and syllabi of R2022. It is resolved to submit it to academic council for further approval.

5b. Discussion on Curriculum of I to IV Semester for R2025 (PG)

I. **Total no.of credits for the PG programme** – 72

II. **Curriculum for I to IV Semester courses of R2025 and Recommendations**

Curriculum and syllabus of I to IV Semester for R2025 (PG) are finalized according to the suggestions given by BoS Members.

III. **New courses offered**

Course Name
Digital IC Design
Electronic Design Automation
Data Converters IC Design
System Design with FPGA
Advanced Computer Architecture
IoT Architecture and Computing
Embedded System and RTOS
Machine Learning in VLSI Design
Cognitive Radio
Logic Synthesis Techniques
VLSI Technology
VLSI Broadband Communication Circuits

The BoS members approved the curriculum of R2025(PG) and curriculum and syllabi of R2022. It is resolved to submit it to academic council for further approval.

6. Discussion on Choice Based Credit System

I. **Self-study courses SWAYAM/NPTEL/MOOC courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester)**

- Udemy/Coursera/Certification Courses are given as self-study courses.
- It is decided to offer some of the core/elective courses as self-study courses during 2024-25 for students with CGPA>= 9.
- The list of courses is given below,

Sl.No.	Course Name
1.	Computer Networks
2.	Consumer Electronics
3.	Embedded Systems

II. **One credit courses and Skill based courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester)**

Name of the course			
S.No.	**Offered**	**S.No.**	**Planned**
1.	ASIC System Design and Verification	1.	Data Acquisition using NI DAQmx and LabVIEW
2.	Advanced Data Acquisition and Control	2.	LoRa Wireless communication for IoT application
3.	Signal Processing with MATLAB	3.	Embedded C for IoT Application
		4.	Design for Testability in VLSI

III. **International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters.**

Students are encouraged to do the International Certificates such as LabVIEW, CISCO, coursera, Udemy, Mathworks, Guvi and Infosys Springboard in the forthcoming semesters. All BoS members appreciated the proposal of giving credits to the students for obtaining International Certificates and approved the same to proceed. They also felt that it would raise the standards of the students to meet the industry needs.

Students have completed the following certification in 2024-25 ODD semester

Sl.No.	Name of the certification	Certification completed by students
1.	Mathworks	22
2.	Guvi	6
3.	Coursera	90

IV. **Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon and Ideathon, and similar activities**

Name of Laboratory offered in R2022	Semester	Contest
Analog and Digital Electronics Laboratory	III	Open ended experiments are given which will enable the students to develop projects on their own. Students can choose any circuits/logic/ applications given in each experiment or bring circuits/logic/ applications of their choice suitable to the given experiment.
Linear Integrated Circuits and Electromagnetics Laboratory	IV	
Microcontrollers Laboratory	V	
Signal Processing Laboratory	V	
VLSI Laboratory	V	
Embedded systems Laboratory	VI	
Digital Communication Laboratory	VI	
Networks Laboratory	VII	
RF Laboratory	VII	
Electronic Design Project Laboratory	IV	Students have to design application circuits/systems using analog and digital electronic components. Circuits can be chosen from the given list of experiments but need not be confined to it.
Innovation Engineering Laboratory	VI	Students will • Diagnose; trouble shoot and extract the circuit drawing from the given PCB. • Teardown a product from the given list or on their own to find the design information, drawing of the circuit, and power requirements. • Prepare report based on the inferences.

V. **Evaluation & course outcome plan for integrated courses, Project based Courses**

The assessment pattern for integrated courses, project-based courses are presented by BoS chairman and all the members approved the same.

VI. **Internship details of Students (2nd, 3rd & 4th Year)**

Credits will be given for students undergoing internship/doing projects in relevant industry and it is given below:

Duration of Training /Internship	Credits
2 Weeks	1
4 Weeks	2
6 Weeks and above	3

No. of Students undergone internship during 2024-25 (Odd Semester)

2021 Admitted batch – 28	2021 Admitted batch – 28

The BoS members appreciated the incorporation of choice based credit system in the curriculum and approved the same. It is resolved to submit it to academic council for further approval.

7. Stakeholder's feedback and action taken

R2026 CURRICULUM

Name of the Stakeholder	Type of the stakeholder	Feedback / Suggestions
Dr.S.Malarkhodi	Faculty	As a member of PAC and DAB, the curriculum was compared with AICTE and the rough draft of R2026 curriculum was framed with other members.
Dr.K.B.Jayanthi		With reference to AICTE model curriculum, UGC and AU guidelines and references from other national and international universities, all faculty meeting is conducted for discussion of draft curriculum and syllabi. Later the discussion is done is PAC, DAB AND BoS. Suggestions are taken for finalising the content and passed in academic council.
Dr.C.Rajasekaran		With reference to the AICTE model curriculum, UGC and anna university guidelines and curriculum references from national and international universities rough draft of the curriculum and syllabi are framed. The content is discussed in PAC, DAB and BOS. Suggestion from stakeholders is incorporated wherever necessary and finalized and presented in academic council for approval.
Mr.Chellakumar S, Enphase Energy	Industry/Employer	The courses such as AI and ML are needed to be added in professional core courses.
Mr. Girish Kumar Jayamani, Microchip Technologies		The following courses may be introduced ➢ Artificial Intelligence and Machine Learning ➢ Internet of Things Engineering ➢ Suggested to include the Elective courses in the domain of Semiconductor and VLSI Design In VLSI Design, Few courses need to be refined focusing on the below points: ➢ Analog IP designs like Buck regulator and RF amplifiers need to be included ➢ Lower geometry like sub 3nm back-end implementation techniques and noise isolation methods
Mr.Pravinkumar S, Boeing India Pvt Ltd		Cloud Computing, AI, Machine Learning, Automation, IoT, Project Management, Data Analytics & Data Science. (These courses are high in Market Values)
Mugila, Coronis Ajuba		Courses related to advanced topics and emerging technologies may be included.
Shri Vidhya S, Virtusa, 2019 passed out	Alumni	The introduction of practical exercise in the elective group is good.

Sowmiyalaxmi Subbaiah, Vuram Technology Solution, 2017 passed out		Laboratory may be more project oriented as needed by industry.
Kirithiga.G, III year ECE	Students	The students felt difficult in completing the lab exercises with the 3 hours of period. So, they requested to increase no. of hours from 3 to 4 hours for each laboratory course.

All the suggestions are incorporated in the R2026 curriculum and submitted for further approval. All these suggestions were presented in BoS meeting and all members welcomed the suggestions and appreciated the changes incorporated.

8. **Suggestions from IQAC**
   - Value Added Courses focusing on women's empowerment may be offered
     i) Women Health & Human Rights through Coursera
     ii) Gender Equality through Inclusive Design through Coursera
     iii) Gender Equality and Women Empowerment through Udemy
   - Minor Degree:
     i) Minor degree may be offered in Machine Learning, Data Science and artificial intelligence to students of non-circuit branches like Mechatronics, Mechanical, EEE, ECE, TXT.
     ii) Minor degree in Business and Entrepreneurship may be offered to the students wants to be an entrepreneur.
9. **Any other matters**

Discussion on the following matters is done in the meeting and approval received from BoS members.

- Members suggested that the quality of the Internal assessment tests and End semester examination question papers has to be maintained considering university norms.
- The BoS members suggested to offer credits for Tamil courses.
- DAB members suggested that the language Python may be used for Digital Signal Processing, VLSI and Embedded related courses

Chairman
BoS/ECE

16/12

Dean-Academics

19/12/2025

Dean-Administration

19/12/2025

Principal

Annexure - I

K.S. RANGASAMYCOLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(Autonomous Institution Affiliated to AnnaUniversity, Chennai)

DEPARTMENT OF EE(VLSIDT)

MEMBERS OF BOARD OF STUDIES (BOS) MEETING - 4

(Period: NOV 2024)

Date : 16.11.2024 **Time: 10.30 AM**

Venue: ECE Board Room (Hybrid mode)

Meeting link:

https://teams.microsoft.com/l/meetupjoin/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1731566879080?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

Dept.	Electronics Engineering (VLSI Design and Technology) (UG)		
Programme & Duration	B.E- Electronics Engineering (VLSI Design and Technology), 4 years		
Sl.No	**Name, Designation & Address**	**Position**	**Signature**
1.	Dr.P.KUMAR Professor / EE(VLSIDT) K.S.Rangasamy College of Technology.	Chairman	
2.	Dr.P.Palanisamy Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Member- Subject Expert (Nominated by Anna University	16.11.2024
3.	Dr.Ashok Rao Former Head, Network Project, CEDT, IISc, 165,11th Main, Saraswathipuram, Mysore -570 009, Karnataka.	Member- Subject Expert (Nominated by Academic Council)	
4.	Dr. P.T. Vanathi Professor, Department of ECE, PSG College of Technology, Coimbatore- 641004.	Member- Subject Expert (Nominated by Academic Council)	
5.	Mr.Balakumar Chinnusamy Sr. Vice President - HR VVDN Technologies Pollachi - 642 001.	Member-Industry Expert (Nominated by the Principal)	
6.	Mr.S.Babu Ramki AI Systems and Solutions Engineer, Intel Technology India Pvt. Ltd. Bengaluru – 560 103.	Member-Alumni (Nominated by the Principal)	S. Babu Ramki

7.	Dr.K.B.JAYANTHI Professor and Dean Academics/ ECE K.S.Rangasamy College of Technology	Member	
8.	Dr.C.RAJASEKARAN Professor / ECE K.S.Rangasamy College of Technology.	Member	
9.	Dr.G.GOMATHI Professor / EE(VLSIDT)	Member	
10.	Mrs.C.SARANYA Assistant Professor / EE(VLSIDT)	Member	
11.	MR.T.RAJAVENKATESAN Assistant Professor / EE(VLSIDT)	Member	
12.	Mr.D.POORNAKUMAR Assistant Professor / EE(VLSIDT)	Member	
13.	Mr.S.PRADEEP Assistant Professor / EE(VLSIDT)	Member	
14.	Ms.V.AISWARYA Student/II year EE(VLSIDT)	Member	Aishwariya.V
15.	Mr.S.INIYAVAN Student/II year EE(VLSIDT)	Member	

BoS Chairman

K.S.Rangasamy College of Technology, Tiruchengode- 637 215

(Autonomous)

Agenda for BoS Meeting

2024 – 2025 (Odd Semester)

Name of the Body	Board of Studies (BoS) Electronics Engineering (VLSI Design and Technology) - UG
Date & Time	16.11.2024 & 10.30AM
Venue	ECE meeting Hall and Microsoft Teams
Meeting link	https://teams.microsoft.com/l/meetupjoin/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1731566879080?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

The list of members attended the meeting is given in **Annexure - I.** The agenda discussed is given below:

S.No	ITEMS
1.	**Curriculum and syllabi of VII & VIII Semester of UG courses R2022 & R2026 Curriculum**
2.	**Revision in the Curriculum and syllabi of I to VI Semester of UG courses R2022.**
3.	**Discussion on Choice Based Credit System** I. Self-study courses SWAYAM / NPTEL / MOOC courses II. One credit course offered in 2023-24 (Even Semester) and planned to offer by industry in 2024-25 (ODD Semester) III. Skill based courses offered in 2024-25 (ODD Semester) and planned to offer 2024-25 (Even Semester) IV. International Certification planned in 2024-25 with credits V. Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc. VI. Evaluation & course outcome plan for integrated courses, Project Based & System Based Courses VII. Internship for Students (2nd, 3rd& 4th Year)
4.	**Stake holders feedback and action taken**
5.	**Suggestion from IQAC**
6.	**Any other matters** • Question Paper Pattern – Internal and End Semester Examination

Minutes of the Board of Studies Meeting
Department of EE(VLSIDT)

				Date: 16.11.2024		**Venue:**	**ECE meeting Hall + Microsoft Teams platform**
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
The BoS Chairman welcomed all the members for the meeting. The items listed in the agenda are taken for discussion one by one. As per the feedback received from stake holders, VII and VIII semesters of R2022 are framed. The minutes of the meeting are as follows:							
1	**Curriculum and syllabi of VII and VIII Semester R 2022 of EE(VLSIDT)**	Dr.P.Palanisamy (Nominated by University)	Course Name: ASIC Design ➢ Module 3 & 4 can be swapped	Module 3: Timing Analysis and Module 4: Physical design was swapped in R2022.	Module coordinator	Syllabus of VII semester of R2022(UG)	Submitted to the academic council for further approval
		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	Course Name: Electronic Packaging ➢ Suggested that Module 3 & 4 content should be reduced ➢ Abbreviation should be in caps and suggested to specify case study in the module 5	Microvias and microvia technology was removed in module 3 and Introduction to Soldering was removed in Module 4 in R2022. Case Study: Implementation of Embedded Passives Technology in Mobile Devices is specified in Module V and Abbreviation for cad was given in caps.	Module coordinator	Syllabus of VII semester of R2022(UG)	Submitted to the academic council for further approval
		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	Course Name: Low Power VLSI Design ➢ Suggested to reduce the content suitable for six hours ➢ Suggested to modify the module 3 & 4 content according to the practices given	The below contents were reduced in each module as per suggestion given by BoS members in R2022. Module2: Architecture Level Low Power Design Module3: Special Techniques, Adiabatic Techniques Module4: Architecture of	Module coordinator	Syllabus of VII semester of R2022(UG)	Submitted to the academic council for further approval

				Level power design, Probabilistic Power Analysis.			
		Dr.P.Palanisamy (Nominated by University)	➢ Course Name: VLSI Signal Processing ➢ Suggested to reduce the retiming concept in module I ➢ Content can be reduce according to the practices given ➢ Suggested that in module 4 systolic architecture design 2D concept can be removed	The below contents were reduced in each module as per suggestion given by BoS members in R2022. Module 1: Solving System of Inequalities, Module 4: 2D Systolic Array Design Module 5: Winogard Algorithm	Module coordinator	Syllabus of VII semester of R2022(UG)	Submitted to the academic council for further approval
		Mr.S.Babu Ramki Member-Alumni (Nominated by the Principal)	Course Name: Scripting languages for VLSI design automation ➢ Suggested to use Python instead of pearl in the practical and theory	The below practical were added and PERL concept was removed as per suggestion given by BoS members in R2022. 1. Python programming using simple statements and expressions 2. Scientific problems using Conditionals and Iterative loops. 3. Implementing real-time/technical applications using Lists, Tuples.	Module coordinator	Syllabus of VII semester of R2022(UG)	Submitted to the academic council for further approval

		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	Course Name: System On Chip ➢ Suggested to reduce bus architectures and asked to have only AMBA	In Module 4: SoC standard buses content reduced as per suggestion given by BoS members in R2022.	Module coordinator	Syllabus of VII semester of R2022(UG)	Submitted to the academic council for further approval
		Dr.P.Palanisamy (Nominated by University)	Course Name: Mixed Signal Design ➢ Suggested to remove the content which is existing in linear integrated circuit courses. ➢ Recommended to reduce the continuous time filter and second order filter in the module II ➢ Tune module V according to experiment given	Flash, successive approximation concepts were removed Second order filters. Active Filters and, Hybrid, segmented DAC's, - decimation filters - second order modulator concepts were removed as per suggestion given by BoS members in R2022. Analog extensions to Verilog: Introduction to data types – Expressions – Signals. Analog behavior .Hierarchical Structures concepts were removed	Module coordinator	Syllabus of VII semester of R2022(UG)	Submitted to the academic council for further approval
		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	Course Name: Machine Learning in VLSI System design Suggested to reduce the content according the practical given	The below contents were reduced in each module as per suggestion given by BoS members in R2022. Module1: Special function unit for Sigmoid and ReLu	Module coordinator	Syllabus of VII semester of R2022(UG)	Submitted to the academic council for further approval

				activation functions. Module 2: Self-organizing Feature Maps. Module 3: Performance comparison of different CNN architectures.			
	R2026 Curriculum of EE(VLSIDT)	All BoS members	The draft Curriculum of R2026 is Presented to the BoS members.	-	-	-	Submitted to the academic council for further approval
2.	**Revision in the Curriculum and syllabi of I to VI Semester of UG courses R2022.**	All BoS members	Proposed to change the Laboratory name Linear integrated circuits and electromagnetics laboratory into Linear integrated circuits and all the BoS members accepted the same. Proposed to swap Elective course Machine Learning in VLSI System design with Artificial Intelligence in the V semester all the BoS members accepted the same.	Lab name changed to Linear integrated circuits. Swapped Machine Learning in VLSI System design with Artificial Intelligence in the semester V.	Module coordinator	Syllabus of IV semester of R2022(UG)	Submitted to the academic council for further approval

3. Discussion on Choice Based Credit System

I. Self-study courses planned to be offered in the even semester of 2024-25

NPTEL courses are given as self-study courses and it is made mandatory for all students. Faculty mentors are available with students supporting them.

II. One credit courses planned to offer by industry in even semester of 2024-25

S.No.	Name the Course
1	Computer Aided Designing Technology using ALTIUM

III. Skill based courses planned to be offer in even semester of 2024-25.

S.No.	Name the Course
Offered	
1	PCB Design using ALTIUM
Planned	
1	Electronic system development using LabVIEW

IV. International Certification planned in 2024-25 with credits

Students are encouraged to do the International Certificates such as Coursera, Udemy, Edx, Mathworks, Guvi and so on.

V. Roll out of laboratory classes to make students to participate in Design Contests, Hackathon and Ideathon, etc.

Name of Laboratory with Code R2022	Semester	Contest
Analog and Digital Electronics Laboratory	III	• Open ended experiments are given which will enable the students to develop projects on their own. • Students can choose any circuits/logic/ applications given in each experiment or bring circuits/logic/ applications of their choice suitable to the given experiment.
Linear Integrated Circuits and Electromagnetics Laboratory	IV	
Signal Processing Laboratory	V	
Embedded Systems Laboratory	VI	
Design Thinking and Innovation Laboratory & Design Thinking and Product Development Laboratory	V &VII	Students have to design application circuits/systems using Electronics Engineering Domain. Applications can be chosen (any four) from the given list but need not be confined to it.

VI. Evaluation & course outcome plan for integrated courses, Project based & System Based Courses

The assessment pattern for integrated courses, project-based courses are presented by BoS chairman and all the members were satisfied.

VII. Internship for Students (2nd, 3rd& 4th Year)

Credits shall be given for students undergoing internship/doing projects in relevant industry and it is given below:

Duration of Training /Internship	Credits
2 Weeks	1
4 Weeks	2
6 Weeks and above	3

4. Stakeholder's feedback and action taken

Name of the Stakeholder	Type of the stakeholder	Regulation	Course Name/General	Feedback / Suggestions	Action Taken
Ananda Gopal Mukherjee Lead Engineer HCL Tech	Industry/Employer	R2022	DSP Structures for VLSI	Recommended to use the syllabus as framed	-
Andrews Nicholas Victor Qualcomm		R2022	RTL design and synthesis	Suggested to include Timing Parameters. Positive and Negative Clock skew. Setup slack and Hold slack. Clock latency. Area. Speed and Power requirements instead of ASIC and SoC.	It is incorporated in the course.
		R2022	RFIC Design, Analog IC Design	Recommended to use the syllabus as framed	-
Vimal Raj Insemi Technology Services Pvt. Ltd. Bengaluru	Industry/Employer	R2022	Low Power VLSI Design	Recommended to use the syllabus as framed	-
			VLSI Signal Processing		
Govarthanan Thirumurugan Responsible for Body Electronics (MS/ESF3-BEG) Bosch Global Software Technologies Private Limited Coimbatore			Scripting languages for VLSI design automation	Recommended to use the syllabus as framed	

			System On Chip		
Nepolean Mani DV-Design Engineer Tessolve Semiconductor Pvt Ltd Bengaluru	Alumni	R2022	Network on Chip	Recommended to use the syllabus as framed. Suggested to include NoC subsystems if possible.	-

All these suggestions are presented in BoS meeting and members welcomed the suggestions and appreciated the changes incorporated.

5. Suggestions from IQAC

Suggestions	Action Taken
➢ Value Added Courses can be given focusing on women & empowerment ➢ Women Health & Human Rights - Coursera ➢ Gender Equality through Inclusive Design - Coursera ➢ Gender Equality and Women Empowerment – Udemy	Motivated the students to take self-study courses on women & empowerment in 2024-2025 Even semester.

6. Any other matters

Discussion on the following matters is done in the meeting and approval received from BoS members.

Members suggested that

- Quality of the internal assessment tests and End Semester Examination Question Papers has to be maintained considering university norms.
- All members suggested to avoid the words such as definition, introduction, basics, overview and fundamentals in the syllabus.

Chairman
BoS / Electronics Engineering
(VLSI Design and technology

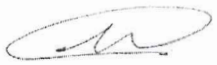
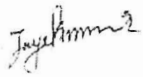
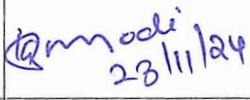
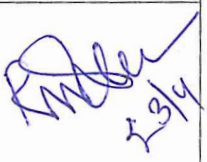
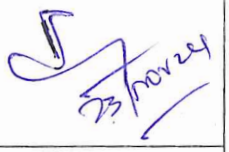
	K.S.RANGASAMY COLLEGE OF TECHNOLOGY **TIRUCHENGODE - 637 215** (An Autonomous Institution, Affiliated to Anna University Chennai)	**CSE**

Department of Computer Science and Engineering
27th Board of Studies Meeting

(Period Jun – 2024 to Nov- 2024)

Date: 23.11.2024 **Time: 9.00 AM**

Department	**Computer Science and Engineering**		
Programme and Duration	**B.E. (Computer Science and Engineering), 4 years** **M.E.(Computer Science and Engineering), 2 years**		
S. No.	**Name , Designation & Address**	**Position**	**Signature**
1.	Dr. S. Madhavi Professor & Head Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID : hodcse@ksrct.ac.in Mobile No: 9095060950	Chairman	23/11/24
2.	Dr.B.G.Geetha Professor & Director (ITIM)/KSRCT Mail ID : directoritim@ksrct.ac.in Mobile No: 9894688866	Member (Subject Experts from the department)	23.11.24
3.	Dr. A. Gnanabaskaran Prof/CSE/KSRCT Mail ID : gnanabaskarana@ksrct.ac.in Mobile No: 9626335995		23/11/24
4.	Dr. S. Sikappi Assistant Professor (Sr. Gr.) Department of Computer Applications Coimbatore Institute of Technology, Coimbatore. Mail ID: sikappi@cit.edu.in Mobile No: +91 93632 28509	Member (Outside Nominated by University)	23.11.2024 Dr. S. SIKAPPI Nominee (Anna University)
5.	Dr.S.Kanmani Professor in Department of IT, Puducherry Technological University Puducherry-605014. Mail ID: kanmani@ptuniv.edu Mobile No: +91 94432 06299		
6.	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Mail ID : Ilan.ganesamurthy@gmail.com Mobile: 9790987715	Member (Meritorious Alumnus)	

7.	Mr. M. Devendran Blockchain Technical Project Manager, Casper Association, Chennai. Mail ID : devconnects@gmail.com Mobile: +91 91766 61208	Member (Industry Expert)	
8.	Dr. V. Jayakumar Assistant Professor (Senior Grade) Presidency University Bangalore. Mail ID: jayakumarksrit@gmail.com Mobile No: +91 98941 49036	Member (Subject Expert)	
9.	Dr.Prabha Selvaraj Professor Senior Grade 1, School of Computer Science and Engineering, Vellore Institute of Technology, Andhra Pradesh.. Mail ID: prabha.s@vitap.ac.in Mobile No: +91 98414 50282	Member (Subject Expert)	
10.	Dr. R. Gopinath ASP/CSE/KSRCT Mail ID: gopinath@ksrct.ac.in Mobile:9865978725	Members (Co-opted by the HoD)	
11.	Dr.K.Poongodi Assistant Professor/CSE/KSRCT Mail ID: poongodik@ksrct.ac.in Mobile No: 9788680616		
12.	Dr. R. Chithra Professor/CSE/KSRCT Mail ID: chithra@ksrct.ac.in Mobile No: 9994312842	Subject Expert	
13.	Ms. J. Mythili Assistant Professor/CSE/KSRCT Mail ID: mythili@ksrct.ac.in Mobile No: 8838318567	Subject Expert	
14.	Mr. S. Rajkumar Assistant Professor/CSE/KSRCT Mail ID: rajkumars@ksrct.ac.in Mobile No: 9003718103	Subject Expert	
15.	Mr. S. Vadivel Assistant Professor/CSE/KSRCT Mail ID: vadivels@ksrct.ac.in Mobile No: 9790632171	Subject Expert	
16.	Mr. K. Dineshkumar Assistant Professor/CSE/KSRCT Mail ID: dineshkumark@ksrct.ac.in Mobile No: 7708735602	Subject Expert	

17.	A.Alyushra Reg. No: 73772214107 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	
18.	R.Madhumithra Reg. No: 73772214156 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	23/11
19.	A.Priyadharshini Reg. No: 73772214181 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	23/11/24
20.	V.Rahul Reg. No: 73772214185 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	

23/11/24

Date: 23-11-2024

BoS Chairman / CSE

CHAIRMAN
Board of Studies
Department of Computer Science and Engineering
K. S. Rangasamy College of Technology
Tiruchengode - 637 215, Namakkal-Dt

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of the Board of Studies Meeting

Department of Computer Science and Engineering

BoS Meeting No: 27 **Date: 23.11.24**

Venue: Online **Microsoft Teams Meeting Link:** https://msteams.link/50OU

S. No	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
1.	**Curriculum of UG programmes (R2026)**	Dr. V. Jayakumar	Suggested to include Quantum Physics in the last module of physics course	It is decided to implement in R2026	Module Coordinator	R2026	It is resolved to submit to Academic Council for further approval
		Mr. Illanchezhian Ganesamurthy	Suggested to include Computer Architecture before Operating System	It is decided to implement in R2026	Module Coordinator	R2026	
2.	**Curriculum and Syllabi of PG CSE programme (R2025)**	Dr.Prabha Selvaraj	Suggested that the course name may be Advanced Data Structures and Algorithms instead of Data Structures and Algorithms in M.E CSE	It is decided to implement in R2025	Module Coordinator	R2025	It is resolved to submit to Academic Council for further approval
3.	**Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes and PG Programmes.**	Dr. V. Jayakumar	Suggested to include MongoDB in Database Management Systems course in 4th semester	MongoDB is included in the second module of Database Management Systems course and corresponding concept is added in Database Management Systems Laboratory course	Module Coordinator	23-12-24 (R2022)	It is resolved to submit to Academic Council for further approval
		Mr. M. Devendran	Suggested to include JavaScript, Node JS, React JS in Advanced Web Development course	The JavaScript concept is already offered in Web Development course during second semester. Node JS and React JS concepts are offered as 'Node.js and React.js' in Elective I	Module Coordinator	R2022	
		Dr. V. Jayakumar	Suggested to include Quantum cryptography in Cryptography and Network Security course	The suggestion is incorporated in the last module of Cryptography and Network Security course	Module Coordinator	23-12-24 (R2022)	

4.	**Revision in the Curriculum and Syllabi of VIII semester R 2018 of UG Programmes**		All BoS members accepted the existing curriculum and syllabi of VIII semester R2018 UG programme	-	-	-	-
5.	**Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026).**	All BoS members accepted the existing curriculum and syllabi for Minor and Honour Degree programmes (R2022)					
6.	**List of open elective courses and value-added courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester)**	BoS chairman presented the list of open elective and value added courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester). **List of open elective courses offered in 2024-2025 (ODD Semester)** - 60 CS L01 Object Oriented Programming - 60 CS L10 Scripting Languages - 60 CS L12 Generative AI - 51 CS L08 Python Programming for Data Analytics - 50 CS L13 Salesforce - 50 TP L01 Jakarta Enterprise Edition - 50 TP L02 Dot Net Full Stack Development **List of open elective courses planned to offer in 2024-2025 (Even Semester)** - 60 CS L01 Object Oriented Programming - 60 CS L07 Java Programming - 60 CS L11 Advanced Java Programming - 60 CS L09 Salesforce - 60 CS L02 AngularJS - 60 CS L13 Industrial Cloud Practices **List of value-added courses offered in 2024-2025 (ODD Semester)** - Full Stack Development - UI/UX Design - Introduction to MongoDB **List of value-added courses planned to offer in 2024-2025 (EVEN Semester)** - Software Automation Testing - Sailpoint - Ethical Hacking - Deep Learning All BoS members accepted the same and it is resolved to submit to Academic Council for further approval				
7.	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV**	**I. Total No. of credits for the UG programme** 167 **II. Curriculum for I to VIII semester Courses (R2026) and Recommendations** The draft curriculum of I to VIII Semester for R2026 (UG) is updated according to the suggestions given by BoS Members and it is resolved to submit to Academic Council for further approval.					

	semesters, R2025) Programmes	**III. Curriculum for I to IV semester Courses (R2025) and Recommendations** • The draft curriculum of I to IV semester for R2025 (PG) is updated according to the suggestions given by BoS Members and it is resolved to submit to Academic Council for further approval. **IV. Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs).** The proposed R2026 curriculum meet the requirements to pursue higher education, career guidance and startups & entrepreneurship by offering the following courses • Core Courses for GATE Preparation • Career Skill Development I, II, III, IV, & V • Start-ups and Entrepreneurship • Research Skill Development • Courses related to Sustainable Development Goals (SDGs) are introduced in R2026 **V. Curriculum meeting the requirements of NEP 2020** The curriculum is designed to meet the requirements of NEP 2020 with value added courses and self-learning courses **VI. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills** Yes, Curriculum and syllabi support student involvement in innovative, design & critical thinking abilities and their problem-solving skills by conducting the following • Codeathon • Smart India Hackathon • Project Contest • Project work • Innovative Courses Courses related to Sustainable Development Goals (SDGs) are introduced in R2026 **VII. Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories** • Incorporation of virtual laboratory – Nil • Industry supported courses and laboratories Infosys Springboard is a platform offered by Infosys by which students are insisted to complete the certification courses related to curriculum and latest technologies **VIII. Introduction of new courses** The following courses are proposed to offer as new courses • Computational Problem Solving • System Architecture The BoS members approved the curriculum and it is resolved to submit to Academic Council for further approval
8.	**Discussion on Curriculum of PG-M.C.A I to IV Semester R2025**	I. **A new PG programme -M.C.A. will be introduced in computing departments in the upcoming year.** The proposed M.C.A. program will address the IT industry's skill gap by offering an industry-relevant curriculum focused on emerging technologies, employability, hands-on training, research, and innovation, while strengthening industry collaborations and enhancing the institution's reputation and growth in computing education. II. **The M.C.A. program is a two-years PG Programme and the curriculum offering advanced courses to** • Bridge the IT skill gap in areas like AI, Blockchain, Cloud Computing and Cybersecurity. • Encourage interdisciplinary learning and problem-solving.

		• Boost employability with industry-relevant skills and strengthen ties with IT firms for internships and projects **III. Total No. of credits for the PG programme(M.C.A) - 83** **IV. Preparation for I to IV semester subjects and Recommendations** • Presented the proposed Curriculum R2025 for M.C.A Programme **V. Curriculum shall meet the Requirements to pursue higher education & Career guidance and startups & entrepreneurship & cross cutting issues** The proposed Curriculum meet the requirements to pursue higher education & career guidance and start-ups & entrepreneurship & cross cutting issues. **VI. Curriculum should improve innovative, design & critical thinking skills and problem-solving abilities of students** The BoS members approved that the proposed Curriculum improves innovative, design & critical thinking skills and problem-solving abilities of students The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.
9.	**Discussion on Choice Based Credit System**	
	I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even Semester)	BoS chairman presented the list of NPTEL courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester). NPTEL courses offered in Odd semester of 2024-25 1. Programming in Java 2. Google Cloud Computing Foundations 3. Introduction To Industry 4.0 And Industrial Internet of Things 4. Operating System Fundamentals 5. Cyber Security and Privacy 6. Machine Learning and Deep Learning – Fundamentals and Applications 7. Python for Data Science NPTEL courses planned to offer in Even semester of 2024-25 1. Cloud Computing 2. Data Analytics with Python 3. Foundations of Cryptography 4. Deep Learning for Natural Language Processing 5. Introduction to Database Systems 6. Introduction to Machine Learning The BoS members accepted the courses and it is resolved to submit to Academic Council for further approval
	II. One credit course offered in 2024-2025 (ODD Semester) and planned to offer in 2024-225 (Even Semester)	The BoS members approved the one credit course planned to offer in 2024-225 (Even Semester) • Cyber Security (3 credits) TANSAM

	III. Skill based courses offered in 2024-25(ODD semester) and planned to offer 2024-25 (Even Semester)	BoS chairman presented the list of Skill based courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester). Skill based courses offered in 2024-25(ODD semester) • Career Skill Development – II • Career Skill Development – IV Skill based courses planned to offer in 2024-25(EVEN semester) • Career Skill Development – I • Career Skill Development – III • Comprehension Test • Research Skill Development The BoS members accepted the above courses and it is resolved to submit to Academic Council for further approval
	IV. International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters.	**BoS Members suggested the following certification courses for the forthcoming semesters** **Recommended Training and Certification Resources** To enhance technical knowledge and professional readiness, students are encouraged to explore the following certification courses • **Linux Foundation Training and Certification Catalog** • **CompTIA Network+ Certification** • **CNCF (Cloud Native Computing Foundation) Training and Certification** Students are also encouraged to do the International Certificates such as coursera, udemy and credits are given to the students for obtaining International Certificates. All BoS members appreciated the credits given to the students for obtaining International Certificates
	V. Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities.	In R2022, Mini projects are given for laboratory courses to make students to participate in Design Contests, Hackathon and Ideathon, etc. The BoS members accepted and approved the same.
	VI. Evaluation pattern for Integrated courses, Project based & System based courses	In integrated courses, Practical component is evaluated as a lab component. The BoS members accepted and approved the same.

	VII. Internship details of students (2 nd , 3 rd & 4 th Year)	The BoS chairman presented the details of internships completed during the AY 2024-25. Students undergoing minimum 6-8 weeks of Internships in reputed industries for sharpening their skill sets Internship completed during the AY 2024-25

Batch	No. of students completed internship
2021-25	67
2022-26	8

10. Stakeholders feedback and action taken

S.No.	Name of the Course	Name of stakeholder	Type of stakeholder	Feedback	Action Taken
1.	Data Structures	Mr. B. Ekambaram Cloud DevOps Engineer, Philips, Bangalore.	Alumni	Suggested to add dynamic programming	It is decided to implement in R2026
2.	Data Structures	Mr. M. Vivek	Alumni	Suggested to add algorithmic design paradigms and complexity measures	It is decided to implement in R2026
3.	Database Management Systems	Mr. K. Guhan Senior Software Analyst, Agilysys Technologies Pvt. Ltd., Chennai. Guhan18398@gmail.com 8940406492	Alumni	Suggested to add MongoDB and its corresponding lab concept in Database Management Systems course	Incorporated in R2022 and course code is revised as 61 CS 402 for theory course and 61 CS 4P2 for lab course
4.	Advanced Web Development	Rahul V(73772214185) Priyadharshini A (73772214181)	Student	The current syllabus covers JavaScript, jQuery, TypeScript, Angular, and PHP, which are extensive topics to master within a single semester. To enhance learning outcomes and ensure a more effective teaching approach, we suggest focusing on core concepts of JavaScript, TypeScript, and Angular in this semester. jQuery and PHP could be introduced in subsequent courses or as supplementary content. This revised structure would allow students to gain a deeper understanding of modern web development practices while ensuring manageable learning objectives.	Incorporated in R2022

						Suggested to offer C++ as a core programming language and Python as elective course	
		5.	Advanced Web Development	Alyushra A(73772214107) Madhumithra R(73772214156)	Student	In Advanced Web Development, React & Node concept can keep it as separate module. Cyber Security can be added as core elective	Incorporated in R2022
		6.	Advanced Web Development	Rohit S(737722141)	Student	Reduce content such as PHP in Advanced Web Development Course	Incorporated in R2022
		7.	60 CS L01 – Object Oriented Programming	Dr. R. Gopinath	Faculty	Module-1 Streams in C++ and Stream classes, console I/O operation can be reduced from the syllabus	Incorporated in R2022 and course code is revised as 61 CS L01
		8.	60 CS L07 – Java Programming	M. Varshanadevi	Faculty	Reduce the content of Java Programming open elective course	Incorporated in R2022 and course code is revised as 61 CS L07
		9.	Project Work	Mr. M. Devendran Blockchain Technical Project Manager, Casper Association, Chennai.	Employer	Suggested the way to conduct project work, Equip students with practical experience by guiding them through the complete lifecycle of a project, encompassing the key concepts	Incorporated in R2022
		10	Business development analysis and development	K.B.Manojkumar, Software Engineer Span technology services, Coimbatore	Employer	Suggested to add the subjects in the field of business development analysis and development. Subjects like 1. Business Fundamentals 2. Supply Chain and Operations Management 3. Business Intelligence and Visualization	It will be incorporated in R2026
11.	Suggestions from IQAC	• 3 Credits can be offered to students as waiver or additional credits upon completion of International Certificates • Prize winners of national level/state level competitions such as Hackathon, India Skills, etc. shall be offered with 3 credits either as waiver or additional credits • One course from NPTEL shall be made mandatory for all UG programmes All BoS members appreciated the above and it is resolved to submit to Academic Council for further approval					
12.	Any other matters						
	Suggestion on Examination Reforms (Question Paper Pattern –	The internal and external examiners list are presented by BoS Chairman and all the members approved the same.					

	Internal and End Semester Examination, etc.,)	
	Increase the intake of UG course	The BoS members accepted to increase the intake of UG course from 120 to 180

23/12/24

BoS Chairman

23/12/2024

Dean Admin

23/12/24

Dean Academics

23/12/24

Principal

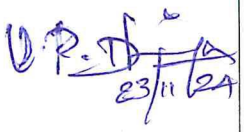
CHAIRMAN
Board of Studies
Department of Computer Science and Engineering
K. S. Rangasamy College of Technology
Tiruchengode - 637 215. Namakkal-Dt

	K.S.RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE - 637 215 (An Autonomous Institution, Affiliated to Anna University Chennai)	IT

27th Board of Studies Meeting

Date: 23.11.2024 Time: 09:00 am

Department	Information Technology		
Programme and Duration	B.Tech. (Information Technology), 4 years M.Tech.(Data Science), 2 years		
S. No.	Name , Designation & Address	Designation	Signature
1	Dr.R.Poonkuzhali, Professor & Head Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID: hodit@ksrct.ac.in Mobile No: 9597612312	Chairman	R.P 23/11/24
2	Dr.J.Nithya, Professor, Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID: nithyaj@ksrct.ac.in Mobile No: 9443846125	Member (Subject Experts from the department)	23/11/24
3	Sqn Ldr V R Sadasivam, Professor, Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID: sadasivam@ksrct.ac.in Mobile No: 9688688555		23/11/2024
4	Dr.Sikappi Assistant Professor (Sr.Gr) Department of computer Applications, Coimbatore Institute of Technology Coimbatore Mobile No: +91 93632 28509	University Nominee	23.11.2024 Dr. S. SIKAPPI Nominee (Anna University)
5	Dr.S.Kanmani Professor in Department of IT Pondicherry Technological University, Puducherry Kanmani @ptuniv.edu.in Mobile No: +91 94432 06299	University Nominee	
6	Mr. Devendran Muthukumaramani Blockchain Technical Project Manager Casper Association, Chennai devconnects@gmail.com Mobile: +91 91766 61208	Meritorious Alumnus	
7	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Ilan.ganesamurthy@gmail.com Mobile: +91 97909 87715	Industry Experts	
8	Dr.Prabha Selvaraj Professor Senior Grade 1 School of Computer Science and Engineering VIT -AP	External Subject Experts	SR

	prabha.s@vitap.ac.in Mobile: +91 98414 50282		
9	Dr. Jayakumar Vaithyashankar Asst.Professor (Senior Grade) Presidency University Bangalore E-mail: jayakumarksrit@gmail.com Mobile: +91 98941 49036	External Subject Experts	
10	Dr.M.Sangeetha, Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: sangeetham@ksrct.ac.in Mobile No: 9994670017	Members (Co-opted by the HoD)	
11	Dr.C.Nallusamy, Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: nallusamyc@ksrct.ac.in Mobile No: 8754254805		
12	Ms.V.P.Dhivya, Associate Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: dhivyavp@ksrct.ac.in Mobile No: 9443696777	Subject Expert	
13	Mr.M.Thilakraj, Assistant Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: mthilakraj@ksrct.ac.in Mobile No: 9842815665	Subject Expert	
14	Ms.K.Mahalakshmi, Assistant Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: mahalakshmik@ksrct.ac.in Mobile No: 9944286457	Subject Expert	
15	Mr.R.T.Dineshkumar, Assistant Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: dhineshkumarrt@ksrct.ac.in Mobile No: 9952762214	Subject Expert	
16	Mr. P.Dineshkumar, Assistant Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: p.dineshkumar@ksrct.ac.in Mobile No: 9688837873	Subject Expert	

BOS Chairman / IT

Dr. R. POONKUZHALI M.E., Ph.D.
Professor & Head
Department of Information Technology
K.S. Rangasamy College of Technology
Tiruchengode - 637 215.

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215
(An Autonomous Institution, Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)
Minutes of the Board of Studies Meeting
Department of Information Technology (UG &PG)
ACADEMIC YEAR 2024-2025 (ODD SEMESTER)

	BoS Meeting No:27			Date:23.11.2024		Venue: IT Department Library
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**
1.	**Curriculum of UG programmes (R2026)**	**Dr. S. Sikappi** (University Nominee)	Suggested to include following the elective courses or specializations • **Service-Oriented Architecture (SOA) for Web Services** • **Computer vision**	Listed courses are included as electives in R-2026.	BoS Chairman	Submitted to Academic Council for further approval
			A **multidisciplinary project** approach is essential to bring together diverse branches like **Mechanical Engineering, Electrical Engineering,** and more.	The proposed suggestions are reviewed and finalized to include the same in R2026		
		Dr.S.Kanmani (University Nominee)	Suggested to equip students with foundational understanding of Automata Theory and their applications in Computation and Software Engineering subjects • Formal Languages and Automata Theory (VI Semester) • Genetic Programming(VII Semester)	Listed courses are added as electives in R-2026	BoS Chairman	Submitted to Academic Council for further approval
		Mr.Illanchezhian Ganesamurthy (Industry Member)	Suggested to include the following courses. • Generative AI • Cloud Platforms • Natural Language Processing (NLP) text analytics	Listed Courses are added as electives in R2026	Module coordinator	Submitted to Academic Council for further approval
			Suggested to introduce the following topics in the Core Course **Data Mining and Data Analytics** • Evaluation of Classification and Clustering • Pattern Mining • Web Mining • Pattern Recognition	Suggested topics are incorporated in Data Mining and Data Analytics.		

		Dr.Jayakumar Vaithyashankar (Subject Expert)	Suggested to ensure the students have a solid foundation in Mathematics to excel in Data Science, Machine Learning (ML), and Artificial Intelligence (AI), while addressing gaps in understanding the critical mathematical concepts like Probability, Statistics, and Linear Algebra.	Suggestions are incorporated to address the gap in Mathematical concepts in ML and AI related courses.	Module coordinator	
			Suggested to include the Course **Quantum Machine Learning** in R2026 curriculum	Suggested course is included as electives in R-2026		
		Dr.Prabha Selvaraj (Subject Expert)	Suggested to introduce **"Software Design & Architecture"** as core in VI or VII semester to emphasize creative aspects of UI/UX aesthetics and human-computer interaction.	Suggested Course is included in VI semester R-2026 curriculum.	BoS Chairman	Submitted to Academic Council for further approval
		Mr.Devendran Muthukumarmani (Alumni)	• Suggested the following courses to enhance the curriculum to improve student employability **Generative AI, Quantum Machine Learning, Software Architecture** • To ensure successful project implementation, the suggested topics will be included. **DevOps** and **Software Architecture** with real-world case studies (e.g., **Netflix, UPI)** **Linux, Golang, and Rust** can be added as Modules as courses In R-2026.	Courses are added in R-2026	Module coordinator	Submitted to Academic Council for further approval
			Recommended for additional training modules and certifications. • Linux Foundation Certification • CompTIA Network+ Certification • Cloud Native Computing Foundation			
2.	**Revision in the Curriculum and Syllabi of R 2022 of UG Programmes**	**Mr.Devendran Muthukumarmani** .(Alumni)	Suggested to embed Design Thinking course in V Semester.	As per the suggestion Design Thinking is offered in V Semester.	BoS Chairman	Submitted to Academic Council for further approval

3.	**Minor and Honor degree course curriculum and syllabi in R2022 and R2018.**	**Dr. S. Sikappi, AU Nominee**	Suggested to include honor degree in the domain of Data Science.	It is proposed to offer honor degree in the domain of Data Science in R2026.	BoS Chairman	Submitted to Academic Council for further approval
4.	**List of open elective courses and value-added courses**	The BoS Chairman presented the following Open electives & Value-Added Courses. Open Elective (2024-2025 Odd Semester Offered) • 60 IT L01 Python Programming • 60 IT L04 C# and .NET Framework Open Elective (2024-2025 Even Semester Planned) • 60 IT L02 Android App Development • 60 IT L03 Power BI • 60 IT L06 Data Analysis using 'R' Programming Value-added Courses Planned (2024-2025 Even Semester) 1. Ethical Hacking 2. Deep Learning The members of BoS committee approved the same. It is resolved to submit to Academic council for further approval.				
5.	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026)**	**I. Total No. of credits for the UG programme - 162** **II Preparation for I to VIII semester subjects R2026, Curriculum for R 2026 and Recommendations** ▪ Presented the proposed Curriculum for I to VIII semester for **R2026 (UG)** and it is approved. **III Curriculum shall meet the Requirements to pursue higher education & Career guidance and startups & entrepreneurship & cross cutting issues** ▪ The proposed Curriculum meet the requirements to pursue higher education & career guidance and start-ups & entrepreneurship by offering the following courses • Career Skill Development I, II, III, IV, & V • Start-ups and Entrepreneurship • Research Skill Development **IV. Curriculum should improve innovative, design & critical thinking skills and problem-solving abilities of students** • The BoS members approved that the proposed Curriculum improves innovative, design & critical thinking skills and problem-solving abilities of students **V. Virtual Laboratories & Industry sponsored / Specific Laboratories** • Planned to use virtual laboratories for the following courses • Data Structures Lab - http://vlabs.iitb.ac.in/vlabs dev/labs/dslab/ • Database Management Systems Laboratory - http://vlabs.iitb.ac.in/vlabs dev/labs/dblab/			

- Planned to introduce following core and new elective courses in **R2026** Curriculum.
  - **Core Courses:**
    - IT Essentials
    - Structured and Object-Oriented Programming
    - Object Oriented Software Engineering
    - Artificial Intelligence and Machine Learning
    - Information Coding and Compression Techniques
    - Web Essentials
    - Programming in IOT Board
    - Software Testing and Quality Assurance
    - Total Quality Management
    - Deep Learning

  - **Elective Courses:**
    - Data Mining and Data Analytics
    - Service-Oriented Architecture (SOA) for Web Services
    - Computer vision
    - DevOps
    - Formal Languages and Automata Theory
    - Natural Language Processing (NLP) text analytics
    - Software Design & Architecture for Applications
    - Embedded Systems
    - Quantum Computing Techniques
    - Quantum Machine Learning
    - Generative A
    - Programming for Data Science
    - Advanced Data Structures
    - Predictive Analytics
    - Blockchain and Cryptocurrency
    - Security and Privacy in Cloud
    - Cyber Security
    - Advanced Networks
    - Fog and Edge Computing
    - Ethical Hacking
    - Software Defined Networks

The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.

	Discussion on proposed Curriculum for PG(M.Tech - Data Science) (I to IV semesters, R2025)	**I** **Total No. of credits for the PG programme(M.Tech-Data Science) -72** **II** **Preparation for I to IV semester subjects R2025, Curriculum for R 2025 and Recommendations** ▪ Presented the proposed Curriculum and Syllabus **(R2025)** for **M.Tech(Data Science)** and it is approved **III** **Curriculum should improve innovative, design & critical thinking skills and problem-solving abilities of students** • The BoS members approved that the proposed Curriculum improves innovative, design & critical thinking skills and problem-solving abilities of students • Planned to introduce following core and new elective courses in **R2025** Curriculum. • **Core Courses:** • Data Science and Big Data Technologies • Introduction to Generative AI • Machine Learning Algorithms and Applications • Data Analysis and Visualization • Blockchain Applications in Data Science • Cloud AI and Edge Computing • Intelligent Systems and Deep Learning • **Elective Courses:** • DevOps for Data Science • Human-Computer Interaction and AI Design • Advanced Natural Language Processing • R Programming for Data Science • Deep Learning for Recommendation Systems • Applied Reinforcement Learning • Advanced Recommender Systems • Data Engineering Tools and Techniques • Blockchain in AI and IoT • Cloud Security for Data Science • IoT Analytics and Smart Infrastructure • Business Intelligence and Analytics • Social Media and Network Data Analytics • Cybersecurity in AI and ML Systems • Financial Analytics and Risk Management • Edge Computing for Data Science • AI for Augmented and Virtual Reality • AI in Social Impact and Governance • Quantum Computing for Data Science The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.

	Discussion on Curriculum of PG-M.C.A I to IV Semester R2025	**I. A new PG programme -M.C.A. will be introduced in computing departments in the upcoming year.** The proposed M.C.A. program will address the IT industry's skill gap by offering an industry-relevant curriculum focused on emerging technologies, employability, hands-on training, research, and innovation, while strengthening industry collaborations and enhancing the institution's reputation and growth in computing education. **II. The M.C.A. program is a two-years PG Programme and the curriculum offering advanced courses to** • Bridge the IT skill gap in areas like AI, Blockchain, Cloud Computing and Cybersecurity. • Encourage interdisciplinary learning and problem-solving. • Boost employability with industry-relevant skills and strengthen ties with IT firms for internships and projects **III. Total No. of credits for the PG programme(M.C.A) - 83** **IV. Preparation for I to IV semester subjects and Recommendations** ▪ Presented the proposed Curriculum **R 2025** for **M.C.A Programme.** **V. Curriculum shall meet the Requirements to pursue higher education & Career guidance and startups & entrepreneurship & cross cutting issues** The proposed Curriculum meet the requirements to pursue higher education & career guidance and Start-ups & Entrepreneurship & cross cutting issues. **VI. Curriculum should improve innovative, design & critical thinking skills and problem-solving abilities of students** The BoS members approved that the proposed Curriculum improves innovative, design & critical thinking skills and problem-solving abilities of students The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.
6.	**Discussion on Choice Based Credit System**	**I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Odd semester) and planned to offer in (EVEN semester) of 2024-25** • **Self-study courses (NPTEL, MOOC) (2024-2025, Odd Semester)** • Responsible and Safe AI system • Design and Implementation Human computer Interface • Cyber security and Privacy • Practical aspects of Cyber security for cyber Practitioner • **Self-study courses (NPTEL, MOOC) proposed (2024-2025, Even Semester)** • Fundamentals of Object Oriented Programming • Foundations of Cyber Physical Systems • Business Intelligence and Analytics • Introduction to Industry 4.0 and Industrial Internet of Things • Affective Computing

II. One credit course offered in 2024-25 (Odd semester) and planned to offer by industry in 2024-25(Even semester)

- **One credit course offered in 2024-25 (Odd semester)**
  Nil
- **One Credit Course planned to offer (2024-25 Even Semester)**
  - Cyber Security

III. Skill based courses offered in 2024-25(Odd semester) and planned to offer 2024-25(Even semester)

- **Skill based Courses offered in 2024-25(Odd semester)**
  - Full Stack Development
  - UI / UX Design
  - Universal Human Values
  - Career Skill Development II
  - Career Skill Development IV
- **Skill based Courses planned to offer 2024-25(Even semester)**
  - Power BI
  - Career Skill Development I
  - Career Skill Development III

IV. Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc.

- 60 CS 0P1-Computer Programming Laboratory - Codeathon
- 61 CS 0P3-Data Structures Laboratory – Codeathon
- 60 CS 0P4 Java Programming Lab - Codeathon,
- 60 IT 003-Design Thinking – Designathon

V. Evaluation pattern for Integrated courses, Project based & System based courses

- BoS members approved that integrated courses, Practical component and theory evaluated with equal weightage mark.

VI. Internship details of the students (2nd, 3rd & 4th Year)

- Students undergoing 6/8 weeks of training /doing projects in industry / academic institutions of repute shall be given 3 credits and one elective course in 7 th or 8 th semester shall be waived.

S.No	Year	Company Name
1	IV	**TOTAL: 80** • AICTE Internshala • Bhumi Ngo • WebSolGuru, • HackBMU • Reach Technologies • Verzeo

			2	III	**TOTAL: 20** • Next24tech Technology, • Nexus Logic Technologies	
			3	II	**TOTAL: 11** • Skillsweb • AICTE Internshala	

7. Stake holder's feedback and action taken

S.No.	Name of Stake Holder	Stake holder's feedback	Action Taken
1.	Archana Manoharan Test Lead CTS Coimbatore (Employer)	Quantum Computing subjects can be included as new elective course in R2026 curriculum	The suggested courses are introduced in R-2026.
2.	Balu Elakiya Senior Developer, CTS,Chennai (Employer)	Suggested to include Data Engineering as Professional Elective Subject.	The suggested courses are introduced in R-2026.
3.	Nandhini.M Technical Lead,Wipro (Employer)	Suggested to include Recommendation System in 60IT E42 Open Source software	Can be considered.
4.	Dineshmani Natarajan (Alumni)	Generative AI can be added as new elective courses in R2026 curriculum	The suggested courses are introduced in R-2026.
5.	Dr.J.Nithya (Faculty)	Fundamentals of Fog and Edge Computing can be added as new courses in R2026 curriculum	The suggested courses are introduced in R-2026.
		Digital logic and Computer Architecture can be combined into a single course.	
6.	V.Kavithasree (Student)	Suggested to add Real World Case Studies in 60 HS 002 – Engineering Economics and Financial Accounting	Forwarded to MBA department faculty to add Case study in the syllabus.

8.	**Suggestions from IQAC**	Suggested to focus on Value Added Courses on women empowerment like • Women Health • Human Rights - Coursera • Gender Equality through Inclusive Design - Coursera • Gender Equality and Women Empowerment – Udemy Suggested to focus on Minor Degree: • Offering a minor degree in Machine Learning, Data Science and artificial intelligence. • Offering a minor degree in Business and Entrepreneurship to the students wants to be an entrepreneur. It is resolved to submit the suggestions on Value Added Courses and Minor Degree Courses to Academic Council for further approval.
9.	**Any Other Matter**	• MLOPs can be given as one Credit or Value-added course • Suggested to offer Green Computing and Green IT and technology sustainability courses. The internal and external examiners list are presented by BoS Chairman and all the members approved the same.

BoS Chairman

CHAIRMAN
BOARD OF STUDIES
Department of Information Technology,
K.S.Rangasamy College of Technology
Tiruchengode 637 215

Dean-Administration

Dean-Academics

Principal

	K.S.RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE - 637 215 (An Autonomous Institution, Affiliated to Anna University Chennai)	AI&DS

10th Board of Studies Meeting

Date: 22.11.2024 Time: 12.30 PM

Department	Artificial Intelligence and Data Science		
Programme and Duration	B. Tech (Artificial Intelligence and Data Science), 4 years		
S. No.	Name , Designation & Address	Designation	Signature
1	Dr.E.Mohanraj Professor & Head Department of Artificial Intelligence and Data Science K. S. Rangasamy College of Technology, Tiruchengode – 637215. Email: hodaids@ksrct.ac.in Mobile No:9842999825	Chairman	
2	Dr.Sikappi Assistant Professor (Sr.Gr) Department of computer Applications, Coimbatore Institute of Technology Coimbatore Mobile No: +91 93632 28509	University Nominee	23.11.2024 Dr. S. SIKAPPI Nominee (Anna University)
3	Dr.S. Kanmani Professor in Department of IT Pondicherry Technological University, Puducherry Kanmani @ptuniv.edu.in Mobile No: +91 94432 06299	University Nominee	
4	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Ilan.ganesamurthy@gmail.com Mobile: +91 97909 87715	Industry Member	
5	Mr. Devendran Muthukumaramani Blockchain Technical Project Manager Casper Association, Chennai devconnects@gmail.com Mobile: +91 91766 61208	Alumni	
6	Dr. Jayakumar Vaithyashankar Asst.Professor (Senior Grade) Presidency University Bangalore E-mail: jayakumarksrit@gmail.com Mobile: +91 98941 49036	Subject Expert	
7	Dr. Prabha Selvaraj Professor Senior Grade 1 School of Computer Science and Engineering VIT -AP prabha.s@vitap.ac.in Mobile: +91 98414 50282	Subject Expert	

8	Dr.S. Sarumathi Professor Department of Artificial Intelligence and Data Science K. S. Rangasamy College of Technology, Tiruchengode – 637215. Email: sarumathi@ksrct.ac.in Mobile: 9443321692	Member	
9	Mr.N. Giridharan Assistant Professor/AI&DS/KSRCT Mail ID: giridharan@ksrct.ac.in Mobile No:8925325252	Member	
10	Ms.S. Gayathri Assistant Professor/AI&DS/KSRCT Mail ID: gayathris@ksrct.ac.in Mobile No:8667685818	Member	
11	Mr.S. Raja Assistant Professor/AI&DS/KSRCT Mail ID: rajas@ksrct.ac.in Mobile No:7502821440	Member	
12	Mrs.I. Kalaimani Assistant Professor/AI&DS/KSRCT Mail ID: kalaimani@ksrct.ac.in Mobile No:9688224088	Member	
13	Mrs.P. Indhumathi Assistant Professor/AI&DS/KSRCT Mail ID: indhumathip@ksrct.ac.in Mobile No:9600505684	Member	
14	Mrs.S. Sripriya Assistant Professor/AI&DS/KSRCT Mail ID: sripriya@ksrct.ac.in Mobile No:9962435353	Member	
15	Ms.Sowndharya A Department of Artificial Intelligence and Data Science	Student	
16	Mr.Bhargav Reddy M Department of Artificial Intelligence and Data Science	Student	

BOS Chairman / AI&DS

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215
(An Autonomous Institution, Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)
Minutes of the Board of Studies Meeting
Department of Artificial Intelligence and Data Science
ACADEMIC YEAR 2024-2025 (ODD SEMESTER)

	BoS Meeting No:10			**Date:23.11.2024**		**Venue:** CSE HoD Cabin
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**
1.	**Curriculum of UG programmes (R2026)**	**Dr. S. Sikappi, AU Nominee**	Suggested to include following elective courses or specializations related to AI and DS (Data Science) like • Ethical Programming: Courses likely focusing on ethical considerations in the development and deployment of AI and Data Science Systems (e.g., fairness, transparency, privacy). • Professional Ethics: This could involve guidelines and ethical principles for working in tech fields, ensuring responsible use of data and AI. • Ethical Issues in AI&DS: Specific focus on addressing biases, fairness, privacy issues, and the societal impacts of AI technologies.	Listed courses are added as electives in R-2026.	BoS Chairman	Submitted to Academic Council for further approval
		Dr.S.Kanmani	Suggested to include the Core Courses to address the Computational Efficiency & Speed related subjects like • Parallel Computing • Cloud Computing	Listed courses are added as core courses in R-2026	BoS Chairman	Submitted to Academic Council for further approval
		Mr.Illanchezhian Ganesamurthy, Industry Member	Suggested to include the topics like Key Libraries & Tools in the following core courses. • Data Science (DS) libraries • Deep Learning Libraries (DL) • ML Libraries • Cloud Platforms	Key Libraries are Added in the core courses like data science, deep learning, Machine learning.	Module coordinator	Submitted to Academic Council for further approval

			• Parallel Computing & High-Performance Computing			
		Dr.Prabha Selvaraj , Subject Expert	Suggested to complete the national certifications on Spark	Informed the students to complete certifications through Infosys Springboard, Coursera	All Faculty	Submitted to Academic Council for further approval
		Mr.Devendran Muthukumarmani, Alumni	Suggested to include the Programming Languages like • Python • Java/C++ • Scripting & Libraries as core courses in R-2026.	Courses are added as core subjects in R-2026	Module Co-ordinator	Submitted to Academic Council for further approval
2.	**Revision in the Curriculum and Syllabi of VIII semester R 2018 of UG Programmes**	-	• Nil			
	Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes	**Mr.Illanchezhian Ganesamurthy, Industry Member**	Suggested to include Generative AI as an Open Elective in R-2022.	Subject is added as an open elective in R-2022.	Module Co-ordinator	Submitted to Academic Council for further approval
3.	**Minor and Honor degree course curriculum and syllabi in R2022 and R2018.**	**Dr. S. Sikappi, AU Nominee**	Suggested to include honor degree in data science.	It is proposed to include honor degree in Data Science.	Module Co-ordinator	Submitted to Academic Council for further approval
4.	**List of open elective courses and value-added courses**	The BoS Chairman presented the following Open electives & Value-Added Courses. Open Elective (2024-2025 Odd Semester Offered) 1. 60 AD L02 & Visualization Tools 2. 50 AD L05 & Robotic Process Automation Open Elective (2024-2025 Even Semester Planned) 1. 60 AD L01 & Robotic Process Automation				

		2. 60 AD L03 & Generative AI Value-added Courses Planned (2024-2025 Even Semester) 1. Network Programming 2. Gaming and virtual Reality The members of BoS committee approved the same. These courses are forwarded to Academic council for further approval.
5.	**Discussion on Curriculum of I to VIII Semester for R 2026 (UG)**	**I. Total No. of credits for the UG programme - 163** **II. Preparation for I to VIII semester subjects R2022 and Recommendations** ▪ Presented the I to VIII semester Curriculum and it gets approved. **III. Curriculum shall meet the Requirements to pursue higher education & Career guidance and startups & entrepreneurship & cross cutting issues** ▪ The proposed Curriculum meet the requirements to pursue higher education & career guidance and start-ups & entrepreneurship by offering the following courses • Career Skill Development I, II, III, IV, & V • Start-ups and Entrepreneurship • Research Skill Development **IV. Curriculum should improve innovative, design & critical thinking skills and problem-solving abilities of students** • The BoS members approved that the proposed Curriculum improves innovative, design & critical thinking skills and problem-solving abilities of students **V. Virtual Laboratories & Industry sponsored / Specific Laboratories** • Planned to use virtual laboratories for the following courses o Data Structures Lab - http://vlabs.iitb.ac.in/vlabs dev/labs/dslab/ o Database Design Laboratory - http://vlabs.iitb.ac.in/vlabs dev/labs/dblab/ • Planned to introduce following core and new elective courses. o **Core Courses:** ▪ Essentials of Data Science. • Applied AI. • Data Visualization Techniques & Tools. • **Elective Courses:** • Computational Intelligence • Graph Theory • Cognitive Models for computing • Software Design Thinking • GPU Architecture and Programming • Embedded Systems • Quantum Computing Techniques

		• Programming for Data Science • Robotic Process Automation • Advanced Data Structures • Predictive Analytics • Cryptography and Network Security • Blockchain and Cryptocurrency • Security and Privacy in Cloud • Cyber Security • Advanced Networks • Ethical Hacking • Software Defined Networks The members of BoS meeting approved the Curriculum. It is resolved to submit it to Academic Council for further approval.
6.	**Discussion on Choice Based Credit System**	**I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Odd semester) and planned to offer in (EVEN semester) of 2024-25** • **Self-study courses (NPTEL, MOOC) (2024-2025, Odd Semester)** • The Joy of Computing using python • Design Thinking – A Primer • Software Testing • **Self-study courses (NPTEL, MOOC) proposed (2024-2025, Even Semester)** • Deep Learning for Natural Language Processing • Introduction to Industry 4.0 and Industrial Internet of Things • Social Networks **II. One credit course offered in 2024-25 (Odd semester) and planned to offer by industry in 2024-25(Even semester)** • **One credit course offered in 2024-25 (Odd semester)** ▪ Nil • **One Credit Course planned to offer (2024-25 Even Semester)** ▪ Augmented Reality ▪ Amazon Web Services ▪ Automation Using Raspberry PI **III. Skill based courses offered in 2024-25(Odd semester) and planned to offer 2024-25(Even semester)** • **Skill based Courses offered in 2024-25(Odd semester)** ▪ Full Stack ▪ Career Skill Development II ▪ Career Skill Development IV

- **Skill based Courses planned to offer 2024-25(Even semester)**
  - Universal Human Values
  - Career Skill Development I
  - Career Skill Development III

IV. Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc.

- 60 CS 0P1-Computer Programming Laboratory - Codeathon
- 61 CS 0P3-Data Structures Laboratory - Codeathon
- 60 IT 003-Design Thinking - Designathon
- 60 AM 0P1-Machine Learning Laboratory - Hackathon

V. Evaluation pattern for Integrated courses, Project based & System based courses

- BoS members approved that integrated courses. Practical component and theory evaluated with equal weightage mark.

VI. Internship details of the students (2nd, 3rd & 4th Year)

- Students undergoing 6/8 weeks of training /doing projects in industry / academic institutions of repute shall be given 3 credits and one elective course in 7 th or 8 th semester shall be waived.

S.No	Year	Company Name
1	IV	**TOTAL: 55** • **Marcello Tech (18)** • **Oasis Infobyte(13)** • **Insource Technologies (4)** • **Idea Tech (4)** • **Accent Techno Soft (3)** • **Pofy Technologies (2)** • **Tech Forge (5)** • **Prenetics(4)** • **Techvolt Software (2)**
2	III	**TOTAL: 25** • **Statix.pro (12)** • **Co cube AI(13)**
3	II	**TOTAL: 2** • **Statix.pro(2)**

7. Stake holder's feedback and action taken

S.No.	Name of Stake Holder	Action Taken	Course Name (changes are introduced)
1.	Mr.S.Bharani, TCS, Chennai	Suggested to include Core subjects like ML,DS, DL from II year onwards.	The suggested courses are introduced in R-2026.
2.	Mr.S.Eniyavan, TCS,Chennai	Suggested to introduce LINUX based subjects.	The suggested courses are introduced in R-2026.

8. Suggestions from IQAC

BoS Members suggested to focus on Value Added Courses on women empowerment like

- Women Health
- Human Rights - Coursera
- Gender Equality through Inclusive Design - Coursera
- Gender Equality and Women Empowerment – Udemy

Suggested to focus on Minor Degree:

- Offering a minor degree in Machine Learning, Data Science and artificial intelligence.
- Offering a minor degree in Business and Entrepreneurship to the students wants to be an entrepreneur.

9. Any Other Matter

The internal and external examiners list are presented by BoS Chairman and all the members approved the same.

Dr.E.Mohanraj
Chairman – BoS
Artificial Intelligence and Data Science
(UG)

17/12/24

Dean-Academics

17/12/2024

Dean-Administration

Principal

	K.S. RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE - 637 215 (An Autonomous Institution, Affiliated to Anna University Chennai)	CSE(AIML)

27th Board of Studies Meeting

Date: 23.11.2024 Time: 09:00 am

Department	CSE(Artificial Intelligence and Machine Learning)		
Programme and Duration	B.E. (CSE (Artificial Intelligence and Machine Learning), 4 years		
S. No.	**Name , Designation & Address**	**Designation**	**Signature**
1	Dr. C.Rajan Professor & Head Department of CSE (AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID: hodaiml@ksrct.ac.in Mobile No: 9865090665	Chairman	23/11/2024.
2	Mrs. C.Janani, Assistant Professor, Department of CSE (AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Email: jananic@ksrct.ac.in Mobile: 9445895734	Member (Subject Experts from the department)	23/11
3	Mr. S.Insol Rajasekar Assistant Professor, Department of CSE (AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Email: insolrajasekar@ksrct.ac.in Mobile:8220512436		
4	Dr.Sikappi Assistant Professor (Sr.Gr) Department of computer Applications, Coimbatore Institute of Technology Coimbatore Mobile No: +91 93632 28509	University Nominee	23.11.2024 Dr. S. SIKAPPI Nominee (Anna University)
5	Dr.S.Kanmani Professor in Department of IT Pondicherry Technological University, Puducherry Kanmani @ptuniv.edu.in Mobile No: +91 94432 06299	University Nominee	
6	Mr. Devendran Muthukumaramani Blockchain Technical Project Manager Casper Association, Chennai devconnects@gmail.com Mobile: +91 91766 61208	Meritorious Alumnus	
7	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Ilan.ganesamurthy@gmail.com Mobile: +91 97909 87715	Industry Experts	

8	Dr.Prabha Selvaraj Professor Senior Grade 1 School of Computer Science and Engineering VIT -AP prabha.s@vitap.ac.in Mobile: +91 98414 50282	External Subject Experts	
9	Dr. Jayakumar Vaithyashankar Asst.Professor (Senior Grade) Presidency University Bangalore E-mail: jayakumarksrit@gmail.com Mobile: +91 98941 49036	External Subject Experts	
10	Mr. K.Praveen Assistant Professor, Department of CSE (AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Email: praveen@ksrct.ac.in Mobile: 9500918101	Subject Expert	
11	Mr. V.Thamizharasu Assistant Professor, Department of CSE (AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Email: thamizharasu@ksrct.ac.in Mobile:9655454000	Subject Expert	
12	Mrs. R.S. Sivaranjani Assistant Professor, Department of CSE (AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Email: sivaranjani.rs@ksrct.ac.in Mobile: 9677055783	Subject Expert	
13	Ms. R.P. Harshini Assistant Professor, Department of CSE (AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Email: harshinirp@ksrct.ac.in Mobile: 9361446506	Subject Expert	
14	Sriharan. S Department of CSE (AIML) K.S.Rangasamy College of Technology	Student (III Year)	
15	Sowmiya P Department of CSE (AIML) K.S.Rangasamy College of Technology	Student (III Year)	
16	Jevithesh S Department of CSE (AIML) K.S.Rangasamy College of Technology	Student (II Year)	
17	Monika R Department of CSE (AIML) K.S.Rangasamy College of Technology	Student (I Year)	

CHAIRMAN
Board of Studies
Department of Computer Science and Engineering (AIML)
K. S. Rangasamy College of Technology

BOS Chairman / CSE(AIML)

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

(An Autonomous Institution, affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)

Minutes of the Board of Studies Meeting

Department of CSE (Artificial Intelligence and Machine Learning)

	BoS Meeting No	**6**		**Date:**	**23.11.2024**	**Venue:**	**IT Park (Online)**
S.No	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum and syllabi of VI R2022**	Dr. S. Sikappi Assistant Professor (Sr. Gr.) Department of Computer Applications, Coimbatore Institute of Technology, Coimbatore. - Member (Outside Nominated by University)	In the Deep Learning course (60 AM 602), it is suggested to have topics related to "Motion Object Learning".	Suggested topics are included in Deep Learning course.	Module Coordinator	VI semester of R2022	Submitted to Academic Council for further approval.
2.	**Revision in the Curriculum and syllabi of I – V Semester – R2022**	Mohan S P Software Engineer Webberax.	In the Computer Architecture course (61 AM 302) , it is suggested to remove the Instruction and its sequencing, Data Path and Thread level Parallelism.	As per the suggestion the topics are removed.	Module Coordinator	III semester of R2022 (2024 Admitted Batch)	

		Mallikarjun. T Tech Lead, L&T Technologies, Bangalore.	In the Artificial Intelligence course (60 AM 401), it is suggested to add Generative Models and Explainable AI.	As per the suggestion the topics are included.	Module Coordinator	IV semester of R2022 (2024 Admitted Batch)	
3.	**Curriculum and syllabi of I - VIII Semester – R2026**	Dr. S. Sikappi Assistant Professor - Member (Outside Nominated by University)	In R2026, it is suggested that an overview of "Intelligent Agents" and "Quantum Computing" could be included in any of the core papers.	• The Intelligent agents based core paper is introduced. • As per the suggestion it is planned to introduce "Quantum Computing " as a separate module in Physics.	Module Coordinator	Curriculum and Syllabi of R2026.	Submitted to Academic Council for further approval.
		Mr.Devendran Muthukumarmani, - Member (Co-opted External)	In R2026, it is suggested that "R Programming Language" and "Ethics related to AI" could be offered.	As per the suggestion, it is planned to introduce "R Programming Language" and "Ethics related to AI".			
4.	**Minor and Honor degree course curriculum in R2026**	The minor degree for R2026 will be offered under the vertical "Gaming Techniques".					

5.	**List of open elective courses and value-added courses**	• Exploratory Data Analysis is as offered as an Open Elective course in R2022. • It is planned to offer AI for Energy Conservation and Management and Intelligent AR/VR Systems as an Open Elective Courses for 2024-2025 Even semester and also it is planned to offer "AWS and Devops" as a Value-Added Course for 2024-2025 Even semester. The BoS Members approved the same and submitted it to Academic Council for further approval.
6.	**Discussion on Curriculum of I to VIII Semester for R 2026 (UG)**	• Curriculum of I to VIII Semester for R2026 (UG) are finalized according to the suggestions given by BoS Members and it is resolved to submit the Syllabus with above changes to Academic council for approval. • Curriculum and syllabi meet the requirements to pursue higher education & career guidance and startups & entrepreneurship by offering the following courses ◦ Core Courses for GATE Preparation ◦ Career Skill Development I, II, III, IV, & V ◦ Start-ups and Entrepreneurship ◦ Research Skill Development The BoS Members approved the same and submitted it to Academic Council for further approval.
7.	**Discussion on Choice Based Credit System**	The following NPTEL courses were offered in 2024-2025 (ODD Semester). 1. Ethical Hacking 2. Understanding Incubation and Entrepreneurship 3. Demystifying Networking 4. Introduction to Industry 4.0 and Industrial Internet of Things 5. The Joy of Computing using Python 6. Programming in Java The following NPTEL courses for 2024-2025 Even semester are planned to offer. 1. The Joy of Computing using Python 2. Introduction to Internet of Things 3. Design Thinking 4. Understanding Incubation and Entrepreneurship 5. Introduction to Industry 4.0 and Industrial Internet of Things The following One credit courses for 2024-2025 Even semester are planned to offer. 1. Application Development using LLM. The following International certification courses for 2024-2025 Even semester are planned to offer. 1. Git & GitHub Crash Course: Create a Repository from Scratch - Udemy 2. Web Development - Udemy The following Life Skill Based courses for 2024-2025 Even semester are planned to offer. 1. Career Skill Development I. 2. Career Skill Development III. The BoS Members approved the same and submitted it to Academic Council for further approval.

8.	**Internship Details – (2024-2025) ODD Semester**	In the academic year (2024 – 2025) ODD Semester, six students from second year(2023 admitted batch) and ten students from third year (2022 admitted batch) secured internships across various organizations.

9. **Stake holders feedback and action taken report**

S.No	Name of the Stakeholder	Name of the Course	Feedback
1	Mohan S P Software Engineer Webberax	61 AM 302 Computer Architecture	To remove the topics Instruction and its sequencing in module 1, Data Path and Control consideration in module 3 and Thread level Parallelism in module 5.
2	Mallikarjun. T Tech Lead, L&T Technologies, Bangalore.	60 AM 401	To add Generative Models and Explainable AI.
3	Sumitha Devi Balasubramanian, ServiceNow Developer, Kanini Software Solutions, Chennai	60 AM 702 Speech and Language Processing	To add some examples like Alexa, Google Assistant-Based Applications
4	Rajesh C R Programmer Analyst, Cognizant Technology Solutions, Coimbatore.	60 AM 703 Explainable AI	To include more hands-on projects and case studies across various domains
5	Saravanan, Hr Recruiter, V2soft pvt ltd, Perungudi,Chennai	60 AM E31 Text and speech analysis	To include IDF Model in Natural Language Basics
6	Sashti Pradeepan.D, Project Lead, Axto Technologies Pvt Ltd, Perundurai.	60 AM E32 UI and UX Design	To include Building High-fidelity Mockups in Unit-IV Wireframing, Prototyping and Testing

		7	Sachin Kumar Full Stack Developer, Cybervault Innovation And Technologies, Coimbatore	60 AM E33 Social network Security	To include Applications of Community Mining Algorithms in Extraction and Mining in Social Networking.
		8	Sharmila Analyst,Tata consultancy services Chennai	60 AM E34 Video Creation and Editing	To add Media Management in Storytelling
		9	Mohamed Thasleem, Software Engineer, Kissflow, Chennai.	60 AM E55_3D printing and design	To include a topic like liquid and powder based fabrication in Inkjet technology
10.	**Suggestions from IQAC**	Value Added Courses focusing on Women & Empowerment i) Gender Equality through Inclusive Design ii) Gender Equality and Women Empowerment through Udemy			
11.	**Any other matters**	The internal and external examiners lists are presented by BoS Chairman and all the members approved the same.			

BoS – Chairman

CHAIRMAN
Board of Studies
Department of Computer Science and Engineering (AIML)
K. S. Rangasamy College of Technology
Tiruchengode - 637 215, Namakkal-Dt.

Dean – Academics

Dean – Administration

Principal

	K.S. RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE - 637 215 (An Autonomous Institution, Affiliated to Anna University Chennai)	CSBS

27th Board of Studies Meeting

Date: 23.11.2024 Time: 09:00 am

Department	Computer Science and Business Systems		
Programme and Duration	B. Tech (Computer Science and Business Systems), 4 years		
S. No.	Name , Designation & Address	Designation	Signature
1	Dr. K. Sakthivel Professor & Head Department of Computer Science and Business Systems, K. S. Rangasamy College of Technology, Tiruchengode – 637215. Email: hodcsbs@ksrct.ac.in Mobile No:9942166425	Chairman	23/11/24
2	Dr.Sikappi Assistant Professor (Sr.Gr) Department of computer Applications, Coimbatore Institute of Technology Coimbatore Mobile No: +91 93632 28509	University Nominee	23.11.2024 Dr. S. SIKAPPI Nominee (Anna University)
3	Dr.S.Kanmani Professor in Department of IT Pondicherry Technological University, Puducherry Kanmani @ptuniv.edu.in Mobile No: +91 94432 06299	University Nominee	
4	Mr. Devendran Muthukumaramani Blockchain Technical Project Manager Casper Association, Chennai devconnects@gmail.com Mobile: +91 91766 61208	Meritorious Alumnus	
5	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Ilan.ganesamurthy@gmail.com Mobile: +91 97909 87715	Industry Experts	
6	Dr.Prabha Selvaraj Professor Senior Grade 1 School of Computer Science and Engineering VIT -AP prabha.s@vitap.ac.in Mobile: +91 98414 50282	External Subject Experts	
7	Dr. Jayakumar Vaithyashankar Asst.Professor (Senior Grade) Presidency University Bangalore E-mail: jayakumarksrit@gmail.com Mobile: +91 98941 49036	External Subject Experts	

8	Dr. M. Tamilarasi Associate Professor Department of Computer Science and Business Systems, K. S. Rangasamy College of Technology, Tiruchengode – 637215. Email: tamilarasi@ksrct.ac.in Mobile: 9095060950	Subject Expert	
9	Mr. R. Karthik Assistant Professor/CSBS/KSRCT Mail ID: karthikr@ksrct.ac.in Mobile No:9965010204	Subject Expert	
10	Mr. S. Vignesh Assistant Professor/CSBS/KSRCT Mail ID: vigneshs@ksrct.ac.in Mobile No:9944820102	Subject Expert	
11	Mr. P. Venkatesh Assistant Professor/CSBS/KSRCT Mail ID: venkateshp@ksrct.ac.in Mobile No:8903366916	Subject Expert	
12	Mrs. R. Logapriya Assistant Professor/CSBS/KSRCT Mail ID: logapriyar@ksrct.ac.in Mobile No:9965833885	Subject Expert	
13	Mr. K. Karthikeyan Assistant Professor/CSBS/KSRCT Mail ID: karthikeyank@ksrct.ac.in Mobile No:9952475246	Subject Expert	
14	Mrs. T. Udhaya Assistant Professor/CSBS/KSRCT Mail ID: udhaya@ksrct.ac.in Mobile No:8675587180	Subject Expert	
15	Dr. P. Manimaran Associate Professor/CSBS/KSRCT Mail ID: manimaran@ksrct.ac.in Mobile No:9894279891	Subject Expert	
16	Ms. Sangamithra J T Department of Computer Science and Business Systems Mail ID: jtmithra@gmail.com Mobile No: 6374151076	Student	
17	Mr. Maiarunkumar K Department of Computer Science and Business Systems Mail ID: kesavan5767@gmail.com Mobile No: 9942817005	Student	
18	Mr. Sabarevason D Department of Computer Science and Business Systems Mail ID: sabarevason2022@gmail.com Mobile No: 7299025956	Student	

BOS Chairman / CSBS

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215

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

Minutes of the Board of Studies Meeting

Department of Computer Science and Business Systems

ACADEMIC YEAR 2024-2025 (ODD SEMESTER)

	BoS Meeting No:10			**Date:23.11.2024**		**Venue:** CSE HoD Cabin (Online)
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**
1.	**Curriculum of UG programmes (R2026)**	**Dr. S. Sikappi, AU Nominee**	Suggested to offer Java Programming instead of "Java Full Stack". Suggested to offer electives to target the specific industries: Finance: FinTech, Algorithmic Trading, and Risk Management.	Offered Java Programming in the third semester. The following courses are included as Professional Electives in R2026. 1.FinTech Personal Finance and Payments 2.Introduction to FinTech 3. Risk Management.	Module Co-ordinator	Submitted to Academic Council for further approval
		Mr.Devendran Muthukumarmani, Alumni	Suggested to include the following content in Design Thinking course • Use frameworks like IDEO or Stanford Design Thinking to innovate business processes. Suggested to offer Quantum Computing for Optimization as an elective course. Recommended to	Included Design Thinking as a core subject. Frameworks like IDEO and followed Stanford Design Thinking business processes are considered in the syllabus. Offered Quantum Computing for Optimization as an	Module Co-ordinator	Submitted to Academic Council for further approval

			include quantum concepts with business applications like portfolio optimization and risk analysis.	elective course.		
		Mr.Illanchezhian Ganesamurthy, Industry Member	Suggested to include Full-Stack Development as a course, incorporating Agile methodology and DevOps practices to enhance practical relevance.	Included MERN Stack as a core paper and offered Project Management as elective.	Module Co-ordinator	Submitted to Academic Council for further approval
2.	**Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes**	**K.Yeshwanth, System Engineer, TCS.**	**61 CB 402 - Design and Analysis of Algorithms** – Suggested to include algorithms such as Trees, Greedy and Dynamic Programming techniques as separate modules.	Modules are formed based on the different category of algorithms. Specific problems are included for each type of algorithms to focus on the placements in product based companies.	Module Co-ordinator	Submitted to Academic Council for further approval
3.	**Minor and Honor degree course curriculum and syllabi in R2022 and R2018.**	**Nil**				
4.	**List of open elective courses and value-added courses**	The BoS Chairman presented the following Open electives & Value-Added Courses. Open Elective (2024-2025 Odd Semester Offered) 1. 60 CB L02– Automation Testing Tools Open Elective (2024-2025 Even Semester Planned) 1. 60 CB L02– Automation Testing Tools 2. 60 AD L03 - Usability Design of Software Applications Value-added Courses Planned (2024-2025 Even Semester) 1. Network Programming 2. Gaming and virtual Reality The members of BoS committee approved the same. These courses are forwarded to Academic council for further approval.				
5.	**Discussion on Curriculum of I to VIII Semester for R 2026 (UG)**	I. Total No. of credits for the UG programme - 163 II. Preparation for I to VIII semester subjects R2022 and Recommendations ➢ Presented the I to VIII semester Curriculum and it gets approved. III. Curriculum shall meet the Requirements to pursue higher education & Career guidance and startups &				

entrepreneurship & cross cutting issues

- The proposed Curriculum meet the requirements to pursue higher education & career guidance and start-ups & entrepreneurship by offering the following courses
  - Career Skill Development I, II, III, IV, & V
  - Start-ups and Entrepreneurship
  - Research Skill Development

IV. Curriculum should improve innovative, design & critical thinking skills and problem solving abilities of students

- The proposed Curriculum improves innovative, design & critical thinking skills and problem solving abilities of students

V. Virtual Laboratories & Industry sponsored / Specific Laboratories

- Planned to use virtual laboratories for the following courses
  - Data Structures Lab - http://vlabs.iitb.ac.in/vlabs dev/labs/dslab/
  - Machine Learning Lab - http://vlabs.iitb.ac.in/vlabs dev/labs/dblab/
- Planned to introduce following core and new elective courses

Core:

- System Design
- UI/UX Design
- Cloud Application Development
- Data Analytics
- Software Testing and Automation

Electives:

- Python Full Stack
- MEAN Stack
- Android Application Development
- Swift Coding and App Development
- Conversational Systems
- Game Development
- Cryptocurrency and Blockchain Technologies
- Cyber Security
- Computer Vision
- Robotics Process Automation
- Cognitive Science
- Exploratory Data Analysis
- Recommender Systems
- Neural Networks and Deep Learning

		• Natural Language Processing • Virtual and Augmented Reality VI. Additional courses offered • Nil The members of BoS meeting approved the Curriculum. It is resolved to submit it to Academic Council for further approval.
6.	**Discussion on Choice Based Credit System**	I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (ODD semester) and planned to offer in (EVEN semester) of 2024-25 ➢ Self-study courses(NPTEL,MOOC) (2024-2025, ODD Semester) • Advanced Distributed Systems • Cloud Computing • The Joy of Computing Using Python • Introduction to Industry 4.0 and Industrial Internet of Things ➢ Self-study courses (NPTEL,MOOC) proposed (2024-2025, EVEN Semester) • Python for Data Science • Natural Language Processing II. One credit course offered in 2024-25 (Odd semester) and planned to offer by industry in 2024-25(Even semester) ➢ One credit course offered in 2024-25 (Odd semester) • Nil ➢ One Credit Course planned to offer (2024-25 Even Semester) • Augmented Reality • Amazon Web Services • Automation Using Raspberry PI III. Skill based courses offered in 2024-25(Odd semester) and planned to offer 2024-25(Even semester) ➢ Skill based Courses offered in 2024-25(Odd semester) • Full Stack • Career Skill Development II • Career Skill Development IV ➢ Skill based Courses planned to offer 2024-25(Even semester) • Universal Human Values • Career Skill Development I • Career Skill Development III IV.Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc. • Computer Programming Laboratory - Codeathon

- Data Structures Laboratory - Codeathon
- Design Thinking - Designathon
- Machine Learning Laboratory - Hackathon
- Usability Design of Software Applications Lab – Designathon

V. Evaluation pattern for Integrated courses, Project based & System based courses

- BoS members approved that integrated courses, Practical component and theory evaluated with equal weightage mark.

VI. Internship details of the students (2nd , 3rd & 4th Year)

- Students undergoing 6/8 weeks of training /doing projects in industry / academic institutions of repute shall be given 3 credits and one elective course in 7 th or 8 th semester shall be waived.

S.No	Year	Company Name
1	IV	**TOTAL: 12** • **Nulinz(3)** • **Rooteche(3)** • **Virtuospark(6)**
2	III	**TOTAL: 07** • **Ether Services(3)** • **Cube AI Solutions Pvt Ltd(1)** • **Nithra Apps(3)**
3	II	**TOTAL: 06** • **TechNuke(3)** • **Virtuospark(2)** • **Lantrasoft(1)**

7. Stake holders feedback and action taken

S.No.	Name of Stake Holder	Action Taken	Course Name (changes are introduced)
1.	V S, Vimalaa Sri Accenture	**In R2026-** Offered the course System Design to facilitate scalable systems development.	System Design
2.	Sekar, Kowshikasri Accenture	**In R2026 –** To Promote Undergraduate Research, is included in lab Courses from the 2nd year itself to build research skills early.	All Lab Courses
		In R2022 - In the Concept Development process, brainstorming and detailed sketches are included.	60 CB 602 - Usability Design of Software Applications
3.	Mr. Raja Sethupathi Technology Service Engineer Walmart Global Tech India	**In R2026** • Offered mandatory capstone projects to apply theoretical knowledge. • Collaborated with industries to provide live problem statements for projects.	All Integrated and Project Based courses
		In R2022 - Hands-On Tools like OpenCV, MATLAB, or Python libraries have been included.	60 CB E55 - Computer Vision
4.	Mr. Sarathkumar Senior associate consultant Infosys limited	**In R2026 –** Offered Design Thinking course to foster innovative thinking skills.	Design Thinking
		In R2022 - Topics like open API standards have been included.	60 CB 701 – Cloud Application Development
5.	Mrs.R.Dharani Capgemini Salem	**In R2026 -** Offered the course Project Management to develop competencies in organizing tasks, managing resources, and successfully delivering projects.	IT Project Management
		In R2022 - Tools like PowerBI and Tableau are used for statistical analysis.	60 CB 7P1 – Data Analytics Lab

8. Suggestions from IQAC

- BoS Members suggested to focus on Value Added Courses on women empowerment like
  - Women Health
  - Human Rights - Coursera
  - Gender Equality through Inclusive Design - Coursera
  - Gender Equality and Women Empowerment - Udemy
- Suggested to focus on Minor Degree:
  - Offering a minor degree in Machine Learning, Data Science and artificial intelligence to students of non-circuit branches like Mechatronics, Mechanical, EEE, ECE, TXT.
  - Offering a minor degree in Business and Entrepreneurship to the students wants to be an entrepreneur.

9. Any other matters

- The internal and external examiners lists are presented by BoS Chairman and all the members approved the same.

13/12/24

Dr.K.Sakthivel
Chairman – BoS
Computer Science and Business Systems
(UG)

16/12

Dean – Academics

13/12/2024

Dean-Administration

17/12

Principal

KS Rangasamy College of Technology	K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215 (An Autonomous Institution, affiliated to Anna University, Chennai and Approved by AICTE, New Delhi)	BT

DEPARTMENT OF BIOTECHNOLOGY

The meeting of the Board of Studies (BoS) was held on as given below

Name of the Body	:	Board of Studies
Meeting No.	:	27
Date	:	21.11.2024 (Thursday)
Time	:	09:00 am
Venue	:	Dr. M.S. Swamynathan Seminar Hall Department of Biotechnology K.S.Rangasamy College of Technology, Tiruchengode.

List of Members attended the Meeting given below

S.No.	Name of the Member	Representation	Signature
1.	Dr. B.Kalpana	Chairman- BOS	
2.	Dr. M. Arivanandhan	University Nominee	
3.	Dr. P. Selvamani	Subject Expert	
4.	Dr.C. Kabilan	Industrial expert	
5.	Mr.M.Vasudevan	Meritorious Alumnus	
6.	Dr. M. Nithya	BOS - Coordinator	
7.	Dr. Puniethaa Prabhu	BOS-Member	
8.	Dr. S.Sidhra	BOS-Member	
9.	Dr. S. Poornima	BOS-Member	
10.	Dr. B. Mythili Gnanamangai	BOS-Member	
11.	Dr. K. Syed Zameer Ahmed	BOS-Member	
12.	Ms.R.Krishnaveni	BOS-Member	
13.	Dr.Rengesh Balakrishnan	BOS-Member	
14.	Ms.M.S.Kalaiarasi	BOS-Member	
15.	Dr. S. Nadana Sabapathi	BOS-Member	
16.	Mr.R.Arulvel	BOS-Member	
17.	Ms.M.Ashna	IV Year BT	
18.	Mr.R.Manoj	III Year BT	
19.	Ms.Lakshitha E K A	II Year BT	

BoS Chairman

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of Board of Studies Meeting

Department of Biotechnology (UG & PG)

	BoS Meeting No	27		Date:	21.05.2024	Venue:	M.S.Swamynathan Seminar Hall
S.No	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
1.	**Curriculum of UG Programmes (R2026)**	Dr.P.Punietha Prabhu Dr.S.Poornima & Dr.M.Nithya	**Introduction of New Courses** 1.Semester II - 70 CS 001 Problem Solving and Python Programming 2.Semester II - 70 CS 001 Problem Solving and Python Programming Laboratory 3.Semeter III - 70 BT 305 Basic Industrial Biotechnology 4.Semester IV -70 BT 402Industrial Enzymology 5.70 BT 405 Analytical Techniques in Biotechnology 6.70 BT 4P2 Analytical Instrumentation Laboratory 7.Semester VI- 70 BT 602 Bioprocess and Bioreactor Engineering 8.Semester VIII - 70 HS 002Process Economics and Industrial Management	The BoS members approved the proposed new courses, and they were incorporated into the R2026 curriculum.	Module Coordinator	II,III,IV,VI and VIII semester of R2026	Submitted for the approval in Academic Council Meeting

2.	**Curriculum and Syllabi of PG programmes (R2025)**	Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert)	**Introduction of New Courses** Semester I – 70 PBT 103 Semester II – 70 PBT 201 -Bio-Analytical Techniques, – 70 PBT 202-Computational model ing and Big data Analysis and 70 PBT 203 Advance Bioprocess Engineering and 70 PDB 2P1-Computational, modeling and Big data Analysis Laboratory, 70 PDB 2P2 - Advance Bioprocess Engineering Analysis Laboratory.	The BoS members approved the proposed new courses, and they were incorporated into the R2026 curriculum.	Module Coordinator	III semester of R2025	Submitted for the approval in Academic Council Meeting
3.	**Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes and PG Programmes**	Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert)	➢ The BoS members suggested to standardize laboratory courses with 10 experiments each, focusing on advanced techniques and removing outdated experiments. ➢ Updates will reflect industry-relevant practices.	The laboratory courses were modified, reducing the number of experiments from 15 to 10.	Module Coordinator	III and IV semester of R2022	Submitted for the approval in Academic Council Meeting
4.	**Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026)** **Discussion and Suggestion** The proposed Curriculum and Syllabi for Honour Degree programmes (R2022 & R2026) were presented by BoS Chairman.The list of courses are as follows. ➢ 60 BT E16 /70 BT E16 - Food Biotechnology ➢ 60 BT E26 /70 BT E26 - Organic Farming for Sustainable Agriculture ➢ 60 BT E36 /70 BT E36 - Biotechniques in crop improvement ➢ 60 BT E46 /70 BT E46 - Agricultural Biotechnology ➢ 60 BT E56 /70 BT E56 - Biodiversity and its conservation ➢ 60 BT E57 /70 BT E57 - Crop Production Technology **Action taken** The proposed curriculum and syllabi for the Honour Degree programmes (R2022 & R2026), presented by the BoS Chairman, were passed in the meeting and submitted for approval in the Academic Council meeting.						
5	**List of open elective courses and value- added courses** **List of open elective courses planned to offer in even Semester (2024-2025)** ➢ Agricultural Engineering ➢ Animal Studies in Research ➢ Production Technology of Agricultural and Food Processing Machinery ➢ Pollution and its Management ➢ Organic Farming for Sustainable Agriculture ➢ Basics of Bioinformatics **List of value- added course offered in Odd Semester (2024-2025)** ➢ Process Optimization using Mintab and Design Expert Software **List of value- added courses planned to offer in even Semester (2024-2025)** ➢ Advanced techniques in Molecular Biology ➢ Synthesis of Nanomaterials ➢ BSF Technology ➢ Computational Genomics ➢ Food product development						

	➢ Phytochemistry and Natural Bioproducts ➢ Basics of Biopython (Module 1 & 2) **Action taken** Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert) appreciated the list of open elective courses and value- added courses suggested by BoS Chairman and submitted for the approval in Academic Council Meeting.
6.	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes** **i. Total No. of credits for the UG programme** The Total No. of credits for the UG programme was proposed to be 164. **ii. Curriculum for I to VIII semester Courses (R2026) and Recommendations** **Discussion and Suggestion** **Mathematics Papers:** Proposal to reduce four Mathematics papers to three was discussed. HoD explained this was aligned with the program's requirement. Dr. Arivanandhan raised concerns, and the justification for the adjustment was accepted by all. Proposal for minimizing the number of mathematical courses as accepted by BoS members . **Introduction of Python Programming:** In Semester 2, Python Programming and Problem Solving was introduced replacing C programming from the previous regulation. This aligns with industry needs for computational skills. The change of course in semester 2, replacing C programming was accepted by BoS members. Dr.Selvamani recommended shortening titles like "Environmental Studies and Climate Change" to "Environmental Science" to avoid confusion in transcripts.The change in the mandatory course title from "Environmental Studies and Climate Change" to "Environmental Science" will be discussed . Dr. Selvamani & Dr.C. Kabilan suggested to change the course title "Chemistry for Life Sciences" as " Chemistry for Biotechnology." The change of title "Chemistry for Life Sciences" as "Chemistry for Biotechnology , as suggested by the members will be incorporated . Dr. Arivanandhan suggested to modify "Basic Electrical and Electronics Engineering" to "Electrical and Electronics Engineering."The change in the course title from " Basic Electrical and Electronics Engineering" to "Electrical and Electronics Engineering." will be discussed . Ms.Ashna & R.Manoj/Student Member suggested to incorporate more application oriented content in Engineering Mechanics and to keep more application oriented experiments in Fabrication and Reverse Engineering. Incorporation of application oriented content relevant to Biotechnology will be implemented with the concerned module coordinator. Ms.Ashna & R.Manoj/Student Member proposed to **Integrate the Engineering Subjects:**Proposal to merge Engineering Graphics and Mechanics as "Engineering Design." The BoS members approved for the proposal and the course has been modified as suggested by the members and the guidelines are incorporated. **Action Taken** Based on the suggestions from the BoS members, the modifications have been made and submitted to the Academic Council for approval. **iii. Curriculum for I to IV semester Courses (R2025) and Recommendations** Dr. Arivanandhan, Dr. Selvamani & Dr.C. Kabilan approved the PG curriculum except for modifications to the course "IPR and Biosafety." Suggestions included integrating Bio safety and Bioethics into electives and emphasizing IPR in the core course. **iv. Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship; cross cutting issues and Sustainable Development Goals (SDGs).** Dr. Arivanandhan, Dr. Selvamani & Dr.C. Kabilan appreciated that the Biotechnology Department Curriculum and Syllabus support the progression to higher education, career guidance, Startups & Entrepreneurship; cross cutting issues and Sustainable Development Goals (SDGs). **v. Curriculum meeting the requirements of NEP 2020.** Dr. Arivanandhan, Dr. Selvamani & Dr.C. Kabilan appreciated that the Biotechnology Department Curriculum and Syllabus satisfies the requirements of NEP 2020. **vi. Curriculum and syllabi to support student involvement in innovative, design; critical thinking abilities and their problem-solving skills.** Dr. Arivanandhan, Dr. Selvamani & Dr.C. Kabilan appreciated that the Biotechnology Department Curriculum and Syllabus supports the student involvement in innovative, design,critical thinking abilities and their problem-solving skills.

	vii. Incorporation of Virtual Laboratory, Industry sponsored/supported courses and laboratories Incorporating virtual biotechnology labs, industry-sponsored biotechnology courses, and industry-supported biotechnology laboratories provides biotechnology students with valuable real-world insights and skills. Dr. Arivanandhan and Dr. Selvamani appreciated that the Biotechnology Department incorporating Virtual Laboratotry and Industry sponsored Laboratories in association with Primas Biosciences,Perundurai. **viii. Introduction of new courses** **Introduction of New Courses** Semester II - 70 CS 001 Problem Solving and Python Programming Semester II - 70 CS 001 Problem Solving and Python Programming Laboratory Semeter III - 70 BT 305 Basic Industrial Biotechnology Semester IV -70 BT 402Industrial Enzymology 70 BT 405-Analytical Techniques in Biotechnology 70 BT 4P2-Analytical Instrumentation Laboratory Semester VI- 70 BT 602 Bioprocess and Bioreactor Engineering Semester VIII - 70 HS 002Process Economics and Industrial Management
7.	**Discussion on Choice Based Credit System**
I	The **list of Self-study courses** planned to offer in even semester of 2024-25 are as follows: ➢ Introduction to Good Clinical Practices ➢ DNA D Coded ➢ Introduction to Forensic Science ➢ Algae Biotechnology Online certification courses were appreciated by BoS members and it is submitted for the Academic Council for further approval.
II	**One credit course planned to offer by industry in Even of 2024-25** **Discussion / Suggestion** Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert) approved the one credit course to be offered in Even Semester namely Basics of Biopython (Module 2) and it is submitted for the Academic Council for further approval.
III	SWAYAM/ NPTEL/ MOOC courses offered in Odd Semester and planned to offer in Even of 2024-25 **List of NPTEL courses offered in Odd Semester** ➢ Drug Delivery Prinicples and Engineering ➢ Experimental Biotechnology ➢ Introduction to Developmental Biology ➢ Environmental Biotechnology **List of NPTEL courses planned to offer in Even of 2024-25** ➢ Environmental Biotechnology ➢ Experimental Biotechnology ➢ Genome Editing & Engineering ➢ Introduction to cell Biology Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert) approved the list of NPTEL courses to be offered in Even Semester and it is submitted for the Academic Council for further approval.

8.	**Stake holders feedback and action taken** **Discussion and Suggestion** Mr. A. Abdul Haseeb (Employer) suggested to include plant tissue culture techniques such as media preparation, sterilization techniques and micropropagation methods in the course Agricultural Biotechnology Dr. Balamurugan JCT College of technology - Coimbatore (Academician) suggested to incorporate the topic Estimation of microbes in the course Microbiology. Mr. E Jayavishnu (Alumni) in Biochemistry suggested that in Unit - II Cholesterol's role in membrane fluidity and as a precursor to hormones (Contents to be added) .Unit - III- Mainly focussing on Vitamin C, Vitamin B12, Vitamin D,Vitamin E, deficiency based on this Vitamins,Unit - IV DNA Structure - Hydrogen bonding and helical stability, Purine Degradation - Clinical relevance (e.g., gout, hyperuricemia) Mr.Vivek (Industry) suggested to reduce the experiments in 60 BT 4P2 - Protein and Enzyme Engineering Laboratory. Ms. Megala P (Employer) suggested that all the units are clearly defined in the course Animal Studies but it seems it may be too heavy for an elective paper. Hence, in 1st unit relation of function foods and nutraceuticals to food and drugs can be removed and in Unit-3 last line ie. toxicology can be completely removed. As it may be seen in basic toxicology. **Action Taken** Based on the suggestion from stakeholders,the content of the courses are revised and submitted to academic council for approval.	
9.	Suggestions from IQAC	**Value Added Courses focusing on women's empowerment** i) Women Health & Human Rights through Coursera ii) Gender Equality through Inclusive Design through Coursera iii) Gender Equality and Women Empowerment through Udemy **Minor Degree:**a) Offering a minor degree in Machine Learning, Data Science and Artificial Intelligence to Students.
10.	Any other matters	➢ The BoS members approved the proposed assessment methodology, which includes a blend of direct (80%) and indirect (20%) measures. ➢ The Summer Research Fellowship and industry internship offered to the students for the period of four to six months may be accounted for credits and applicable for Course Waiver . ➢ Gratitude expressed to Dr. Kabilan for facilitating the industry-supported lab upgradation for courses like Bioprocess and Downstream Processing.

BoS Chairman **Dean/Academics** 14/12/24 **Dean/Admin** 14/12/24 **Principal**

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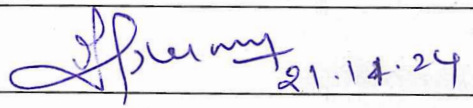
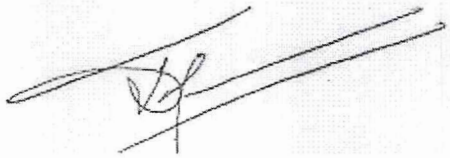
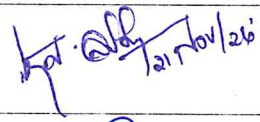
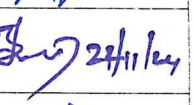
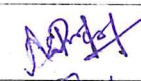
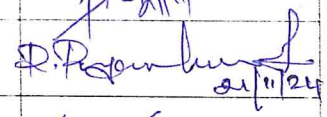
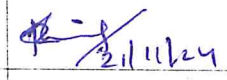
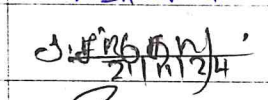
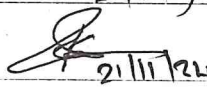
DEPARTMENT OF FOOD TECHNOLOGY

List of Members attended the Meeting given below

S.No.	Name of the Member	Designation	Representation	Members Signature
1	Dr.J. Philip Robinson	Head, Department of Food Technology, KSRCT	Chairman- BOS	
2	Dr. M. Arivanandhan	Professor, Centre for Nanoscience and Technology, Anna University, Chennai - 600 025.	University Nominee	
3	Dr. Jayan Arthur Moses	Assistant Professor and In-Charge Computational Modeling and Nanoscale Processing Unit, NIFTEM - Thanjavur , Pudukkottai Road, Thanjavur - 613 005	Subject Expert	
4	Dr.T.V. Ranganathan	Professor, Department Food Processing Technology, Karunya University, Karunya Nagar, Coimbatore	Subject Expert	
5	Dr. Sathiyamoorthy	Managing Director, Moon Foods, Tiruchengode, Namakkal.	Industry Expert	

6	Srinivasan. R	Senior Officer - QA/QC CP Norfolk India Pvt Ltd. Chittoor	Alumni	
7	Mr. T. G. N. Nagarjun	Assistant Professor - KSRCT	BOS-Member Coordinator	
8	Dr. K. Prabha	Associate Professor - KSRCT	BOS-Member	
9	Dr. J. Balachandra Mohan	Associate Professor - KSRCT	BOS-Member	
10	Dr.K. Balasubramani	Associate Professor - KSRCT	BOS-Member	
11	Dr. A. S. Ruby Celsia	Assistant Professor - KSRCT	BOS-Member	
12	Mr. G. Bharath	Assistant Professor - KSRCT	BOS-Member	
13	Mr. R. Pugazh Vendhan	B.Tech FT – Third Year	Student	
14	Ms. R. Tejashwini	B.Tech FT – Third Year	Student	
15	Mr. S. Santhosh	B.Tech FT – Second Year	Student	
16	Mr. R. Kamalanarayanan	B.Tech FT – Second Year	Student	
17	Mr. S. Theivam	B.Tech FT – Second Year	Student	
18.	Ms. K. Kavishree	B.Tech FT – Second Year	Student	

K. S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215

(Autonomous)

Minutes of the Board of Studies Meeting

Department of Food Technology

The Board of Studies meeting held on 21.11.2024 with the Greeting and welcome by the Board of Studies Chairman. The Chairman of BOS introduces the members to the forum.

The Chairman of Board of Studies explained the academic process followed in the Department which includes the completed Regulation, Teaching and Learning process, funded projects received and the major achievement of the Department.

The detailed discussion made by the Internal and external members as given in the agenda are given below:

BoS Meeting No.			**27**	**Date: 21.11.2024**		**Venue: Department of Food Technology, Meeting Hall**	
S.No	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum of I to VIII Semester R2026 of UG**	Dr. M. Arivanandhan (University Nominee) Dr.T.V. Ranganathan (Subject Expert)	**Semester I** ➢ Suggested to Rename "Engineering Graphics" into "Engineering Drawing Graphics and Designing" to reflect modern design practices ➢ Suggested to offer Thermodynamics in the first semester to establish a strong technical foundation and prepare students for advanced courses in later semesters.	➢ As per the suggestion, "Engineering Graphics" is reframed as "Engineering Graphics and Designing". ➢ As per the suggestion, basics of Thermodynamics course is introduced in the first semester.	BoS Chairman	Updated in Curriculum of I Semester of R2026(UG)	Submitted to Academic Council for further approval
		Dr. M. Arivanandhan	**Semester II** ➢ Suggested to reframe the	➢ As per the suggestion, "Environmental Studies	BoS Chairman	Updated in Curriculum of	Submitted to Academic Council

		(University Nominee) Dr.T.V. Ranganathan (Subject Expert) Dr. M. Arivanandhan (University Nominee)	title "Environmental Studies and Climate Change" to Environmental Science and Climate Change. ➢ Suggested to offer core subjects from the first or second semester to build a strong foundation in the discipline. ➢ Suggested to remove the Engineering Mechanics paper from the curriculum if its concepts overlap with other courses or are less relevant to the program's objectives.	and Climate Change" renamed as Environmental Science and Climate Change. ➢ As per the suggestion. Core course - Food Processing and Preservation is included in the second semester. ➢ As per the suggestion, Engineering Mechanics course is removed from the curriculum		II Semester of R2026(UG)	for further approval
		Dr. Sathiyamoorthy (Industry Expert)	**Semester III** Suggested to merge Food Process Engineering – I & II.	As per the suggestion, Food Process Engineering – I & II are merged and offered as Food Process Engineering.	BoS Chairman	Updated in Curriculum of III Semester of R2026(UG)	Submitted to Academic Council for further approval
		Dr. Sathiyamoorthy (Industry Expert)	**Semester IV** Suggested to add Food Analysis Laboratory instead of Sensory Evaluation Laboratory.	As per the suggestion, Food Analysis Laboratory is added instead of Sensory Evaluation Laboratory.	BoS Chairman	Necessary updation are carried out in Curriculum of IV Semester of R 2026(UG)	Submitted to Academic Council for further approval
		Dr. M. Arivanandhan (University Nominee)	Suggested to limit mathematics courses to three semesters instead of four, ensuring focused learning without redundancy.	As per the suggestion, the mathematics courses are offered in I, II and III Semester.	BoS Chairman	Updated in Curriculum of I, II, III Semester of R2026(UG)	Submitted to Academic Council for further approval

	Curriculum of R2025(PG)	Dr.T.V. Ranganathan (Subject Expert)	**Semester I** Suggested to offer Trends in Food Packaging System and Advanced Food Packaging System Laboratory.	As per the suggestion, Trends in Food Packaging System and Advanced Food Packaging System Laboratory are shifted to semester – I.	BoS Chairman	Updated in Curriculum of I Semester of R2025(PG)	Submitted to Academic Council for further approval
		Mr. Srinivasan. R (Alumni)	**Semester II** Suggested to add Food Analysis and Instrumentation & Food Analysis and Instrumentation laboratory.	Food Analysis and Instrumentation theory & laboratory is added in semester - II	BoS Chairman	Necessary updation are carried out in Curriculum of II Semester of R2025(PG)	Submitted to Academic Council for further approval
		Dr. Jayan Moses (Subject Expert)	Suggested to offer Food Rheology in Professional Elective course	Food Rheology is offered to Professional Elective course in Semester II (Elective III).	BoS Chairman	Necessary updation are carried out in Curriculum of II Semester of R2025(PG)	Submitted to Academic Council for further approval
		Mr. Srinivasan. R (Alumni)	**Semester III** Suggested to rename "Food Storage Engineering" as "Food Storage Engineering and Pest Control"	As per the suggestion, "Food Storage Engineering" title is renamed as "Food Storage Engineering and Pest Control".	BoS Chairman	Updated in Curriculum of III semester of R2025(PG)	Submitted to Academic Council for further approval
		Dr. Sathiyamoorthy (Industry Expert)	**Semester III** Suggested to offer Food Safety and Quality Control.	Food Safety and Quality Control is shifted to semester – III from semester-II.	BoS Chairman	Updated in Curriculum of III Semester of R2025(PG)	Submitted to Academic Council for further approval

2.	i) **Revision in the curriculum and Syllabi of I to V semester R 2022 (UG)** ii) **Revision in the Syllabi of VIII Semester - R 2018 (UG)**	Dr.T.V. Ranganathan (Subject Expert)	**Semester III** Suggested to include biochemical compounds like water, proteins, vitamins and minerals in Food Biochemistry	The biochemical compounds like water, proteins, vitamins and minerals are included in Food Biochemistry	BoS Chairman	Updated in Curriculum of IV Semester of R2022	Submitted to Academic Council for further approval
		Dr. M. Arivanandhan (University Nominee)	Suggested to incorporate the prediction of ash, minerals, moisture, sugar content, caffeine, degradations of amino acids, estimation of minerals such as calcium and sodium in Food	As per the suggestion, the prediction of ash, minerals, moisture, sugar content, caffeine, degradations of amino acids, estimation of minerals such as calcium and sodium are added in Food Biochemistry Laboratory.	BoS Chairman	Necessary updation are carried out in Curriculum of III Semester of R2022	Submitted to Academic Council for further approval
3.	**Curriculum and syllabi for Minor and Honours degree programmes (R2022 and R2026)**	- Dr. M. Arivanandhan (University Nominee) & Dr.T.V. Ranganathan (Subject Expert)	**Professional Elective Courses: Verticals / Honours Degree – R2026** ➢ Suggested to ensure that the Professional elective courses in each vertical are not overlapped and the number of courses in each vertical may be at least 7.	- ➢ There are 7 courses given in each vertical in the Professional elective courses and ensured that there is no course repeated in each vertical group.	BoS Chairman	- Updated in Curriculum of Honour degree courses	Submitted to Academic Council for further approval
4.	**List of open elective courses and value-added courses offered in 2024-25 (Odd Semester) and planned to offer in 2024-25 (Even semester)** **List of Open Elective courses offered in 2024-2025 (Odd)** • Livestock's, Poultry and Fish Production Management **List of value-added courses offered in 2024-2025 (Odd)** • FoSTaC • MINITAB & MATLAB **List of open Elective courses planned to offer in 2024-2025 (Even)** • Nutrition and Healthy Life • Livestock's, Poultry and Fish Production Management **List of value-added courses planned to offer in 2024-2025 (Even)**						

- HACCP and Food Safety Testing
- Sensory Evaluation of Food
- MINITAB & MATLAB
- International FSSAI and FoSTaC Certification

Dr. M. Arivanandhan, Dr.T.V. Ranganathan and Dr. Sathiyamoorthy appreciated the list of open elective courses and value- added courses suggested by BoS Chairman and submitted for the approval in Academic Council Meeting.

5. Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes

I. Total No. of credits for the UG programme – 164

II. Curriculum for I to VIII Semester courses of R2026 and Recommendations

The proposed curriculum of I to VIII Semester for R2026 (UG) are finalized according to the suggestions given by BoS Members and it is resolved to submit the same with above changes to Academic council for approval.

III. Curriculum and syllabi to support progression to higher education & career guidance and Start-ups & Entrepreneurship and cross cutting issues and Sustainable Development Goals (SDGs)

Higher Education (%)	Career Guidance (%)	Entrepreneurship (%)
29.8 (GATE courses)	92.17 (Core and open electives) + CCD	16.3

IV. Curriculum meeting the requirements of NEP 2020

The following courses are offered for students in order to meet the requirements of NEP 2020

- Multidisciplinary – Open elective courses (Stock Trading, Java, Python, Web design and Agricultural Engineering etc.)
- Skill Enhancement Courses (SEC) – CSD (Carrier skill development from semester II to VI)
- Value Added Courses – One credit courses
- Summer Internship – Mandatory 6 weeks internship with additional credits
- Research Project / Dissertation – Project phase I & II, Research Skill Development (Audit course)
- The department integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values and Environment and Sustainability into the Curriculum through the courses such as Universal Human Values and Environmental Studies and Climate Change.

V. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and problem solving skills

Design Thinking (%)	Critical Thinking Skills (%)	Problem Solving Ability (%)
18 (ALL CORE LABS)	56 (question paper based)	26 (Tutorial courses)

VI. Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories

a) Virtual Laboratory

Name of Course with Code	Semester	Name of Institution / Open Source Tools
60 FT 3P1 – Food Biochemistry Laboratory	III	Amrita virtual laboratory link
60 FT 3P2 – Food Microbiology Laboratory	III	Amrita virtual laboratory link

b) Industry sponsored/supported courses and laboratories

S. No.	Supporting industry	Name of the laboratory
1	Biorith Techno Products PVT., Ltd., Coimbatore	Bakery and confectionary Laboratory
2	Moon Foods	

Discussion on Curriculum of I to IV Semester for R2025 (PG)

I. **Total no.of credits for the PG programme** – 80

II. **Curriculum for I to IV Semester courses of R2025 and Recommendations**

Curriculum and syllabus of I to IV Semester for R2025 (PG) are finalized according to the suggestions given by BoS Members. It is resolved to submit the curriculum with the above changes to Academic council for approval.

III. **New courses offered**

- Transport Phenomena in Food Process
- Food Storage Engineering
- Food Engineering Laboratory
- Trends in Food packaging system
- Advanced Food Packaging systems Laboratory
- Food Process Automation
- Marine Food process Technology
- By-product utilization in Food Industries
- Food Legislation and Standards
- Food Nutrigenomics

The members of Board of Studies approved and it is resolved to forward it to Academic Council for further approval.

6. **Discussion on Choice Based Credit System**

I. The list of Self-study courses planned to offer in even semester of 2024-25 are as follows:

The BoS member suggested to include the following self-study courses.

- Introduction to Processing Technologies
- Introduction to Food Fortification Technology
- Food Processing Technology and Quality of Food
- Dairy and Food Process and Products Technology

II. SWAYAM/ NPTEL/ MOOC courses offered in Odd Semester and planned to offer in Even of 2024-25

List of NPTEL courses offered in Odd Semester

- Post-Harvest Operation and processing of Fruits, Vegetables, Spice and Plantation crop Products
- Thermal Operations in Food Processing Engineering: Theory and Applications
- Dairy and Food Process and Product Technology

List of NPTEL courses planned to offer in Even of 2024-25

- Food Science and Technology
- Novel Technologies For Food Processing And Shelf Life Extension
- Modern Food Packaging Technologies: Regulatory Aspects and Global Trends

III. One credit course planned to offer by industry in Even of 2024-25

The BoS member suggested to include the following one credit courses.

- Food safety and quality regulations
- Computer applications in Dairy Technology

IV. Evaluation & course outcome plan for integrated courses, Project based Courses

The assessment pattern for integrated courses, project-based courses are presented by BoS chairman and all the members accepted the same.

V. Internship details of Students (2nd, 3rd & 4th Year)

Credits will be given for students undergoing internship/doing projects in relevant industry and it is given below:

Duration of Training /Internship	Credits
2 Weeks	1
4 Weeks	2
6 Weeks and above	3

No. of Students undergone internship during 2024-25 (Odd Semester)

- 2021 Admitted batch – 26
- 2022 Admitted batch – 12
- 2023 Admitted batch – 07

The members of Board of Studies approved and it is resolved to forward it to Academic Council for further approval.

7. **Stake holders feedback and action taken**

R2026 curriculum & R2022 syllabi

Name of the Stakeholder	Type of the stakeholder	Feedback / Suggestions	Action Taken
Dr. J. Philip Robinson	Faculty	The curriculum was compared with AICTE as a member of PAC and DAB, and other members helped construct the preliminary R2026 curriculum draft.	The curriculum was aligned with AICTE norms through discussions with PAC and DAB members. Collaborative inputs from these committees facilitated the development of the preliminary R2026 curriculum draft, ensuring compliance and relevance.
Dr. K. Prabha		All faculty meetings are held to discuss draft curricula and syllabi in light of the AICTE model curriculum, UGC and AU standards, and references from other domestic and foreign universities. Later, PAC, DAB, and BoS finish the conversation. To finalize the content, suggestions are gathered and approved by the academic council.	Faculty meetings were conducted to review and refine the draft curricula and syllabi, aligning them with AICTE, UGC, and AU standards, and benchmarking against national and international universities. Feedback from PAC, DAB, and BoS was incorporated, and the finalized content was approved by the academic council.
Dr. K. Balasubramani		Rough drafts of the curriculum and syllabi are framed with reference to the AICTE model curriculum, UGC and Anna University norms, and curriculum references from national and international universities. The topic is covered in BOS, DAB,	The curriculum and syllabi were framed by referencing the AICTE model curriculum, UGC and Anna University norms, and benchmarking against national and international standards. Inputs

			and PAC. Stakeholder suggestions are taken into consideration as needed, completed, and submitted to the academic council for approval.	from BOS, DAB, PAC, and stakeholders were incorporated, and the finalized draft was submitted to the academic council for approval.
	Mr. V. Nandha Kumar	Industry/ Employer	Suggested to incorporate real life application in the course Downstream Processing	Topics related to real life application are added in the course Downstream Processing.
	Ms. S. Geethika		Suggested the following points may be added in Meat, Fish and Poultry Process Technology ➢ Incorporating Emerging Technologies: Include sections on the use of automation and robotics in slaughterhouses and meat processing for better efficiency and hygiene. ➢ Sustainability Practices: Add content on sustainable practices in meat, fish, and poultry processing, focusing on waste minimization, by-product utilization, and eco-friendly preservation methods.	The suggested points are incorporated in the course Meat, Fish and Poultry Process Technology.
	Ms. M. Midhula	Alumni	Suggested to add thawing process of frozen meat in the course Meat, Fish and Poultry Process Technology	Thawing process of frozen meat is added.
	Mr. Abhinav M. Nair Mr.S.Vidhyaprabhakaran		Suggested to add metabolic changes and the toxicology effect of biochemical mechanism in the course Meat, Fish and Poultry Process Technology	Metabolic changes and the toxicology effect of biochemical mechanism is added.
	All the suggestions are incorporated in the R2026 curriculum & R2022 syllabi and submitted for further approval in Academic Council.			
8.	**Suggestions from IQAC**	**Value Added Courses focusing on women's empowerment** i) Women Health & Human Rights through Coursera ii) Gender Equality through Inclusive Design through Coursera iii) Gender Equality and Women Empowerment through Udemy		
9.	**Any other matters**	**Suggestions:** • Members suggested that the quality of the Internal assessment tests and End semester examination question papers has to be maintained considering university norms. • The BoS members suggested to offer credits for Tamil courses.	**Action Taken:** The suggestions are under discussion and will be resolved when the R2026 curriculum is finalized.	

BoS Chairman **Dean Academics** 26/12/24 **Dean Admin** 26/12/2024 **Principal** 26/12/24

K. S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE -637 215

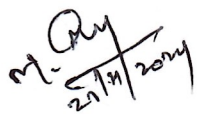
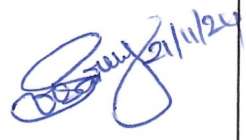
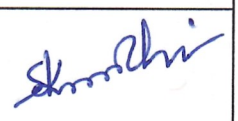
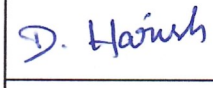
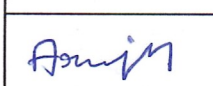
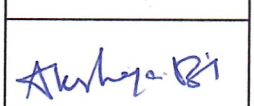
(An Autonomous Institution, affiliated to Anna University, Chennai and Approved by AICTE, New Delhi)

ATTENDANCE OF 27th BOARD OF STUDIES

Department : **Textile Technology**
Programme : **UG & PG Textile Technology (4 Years)**
Venue : **Bio- Tech. M S Swaminathan Hall**
Date and Time : **21.11.2024 and 2.00 P.M.**

S. No.	Name, Designation & Address	Position	Signature
1.	**Dr. G. Karthikeyan** Professor & HOD Dept. of Textile Technology K. S. Rangasamy College of Technology Mobile No.: 9842840809 Email Id : karthikeyang@ksrct.ac.in	Chairman	21/11/24
2.	**Dr. M. Arivanandhan** Professor Centre for Nanoscience and Technology Anna University Chennai – 600 025. E-Mail id : arivucz@gmail.com Mobile No. : 7401182819	University Nominee	21/11/24
3.	**Dr. V. Ramesh Babu** Associate Professor & Head, Department of Textile Technology, Kumaraguru College of Technology, Saravanamaptti, Coimbatore- 641049. E-Mail : salemramesh@yahoo.com Mobile : 9944000055	Subject Expert nominated by Academic Council	21/11/24
4.	**Dr.J.C.Sakthivel** Associate professor Department of Textile Technology PSG College of Technology Coimbatore E-Mail id : jcs.textile@psgtech.ac.in Mobile No. : 9894431230	Subject Expert nominated by Academic Council	21.11.24
5.	**Mr. P. Karnan** Regional Sales Manager, Rieter India Private Limited Avinashi Road, Coimbatore – 641 014. Email Id: karnan.palanisamy@rieter.com Mobile No.: 9787725232	Industrial Expert nominated by Academic Council	

S. No.	Name, Designation & Address	Position	Signature
6.	**Mr.S. Arunprasad** Managing Director, Aishwariyaa Packaging Tirupur E-Mail id : arunvgb@gmail.com Mobile No. : 9500544205	Alumnus	
7.	**Dr. M.B. Sampath** Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : sampath@ksrct.ac.in	Member (Subject Expert from the department)	21/11/2024
8.	**Dr. K. Saravanan** Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : saravanan.k@ksrct.ac.in		21/11/24
9.	**Dr. N. Sukumar** Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : sukumar@ksrct.ac.in		21/11/24
10.	**Dr. M. Bharani** Asso. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : bharanim@ksrct.ac.in		21/11/24
11.	**Mr. G. Devanand** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : devanandg@ksrct.ac.in		21/11/24
12.	**Dr. C. Premalatha** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : premalatha@ksrct.ac.in		21/11/24
13.	**Dr. K.R. Nandagopal** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : nandagopal@ksrct.ac.in		21-11-24

S. No.	Name, Designation & Address	Position	Signature
14.	**Mr. P. Maheswaran** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : pmaheswaran@ksrct.ac.in		
15.	**Mr. M. Arunkumar** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : arunkumar@ksrct.ac.in		
16.	**Mr. A.S. Subburaayasaran** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : subburaayasaran@ksrct.ac.in		
17.	Mrs. S. Kiruthukarhani M/o. Ms. B.S. Akshaya III – Textile	Parents	
18.	Mr. D. Harish IV - Textile	Student Member	
19.	Mr. S. P. Arjunraj IV - Textile		
20.	Ms. B.S. Akshaya III - Textile		

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of the 27th Board of Studies Meeting
Department of Textile Technology (UG & PG)

BoS Meeting No : 27
Date : 21.11.2024
Venue : M.S. Swaminathan Hall

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
1.	Curriculum of UG Programmes (R2026).	Dr. J.C. Sakthivel (Subject Expert)	• Include industry-relevant subjects such as Industry 4.0 applications, functional textiles, and sustainable textile • Add more content on innovative practices and quantitative techniques in professional core subjects in R2026	Revise as per recommendations	MC/CD	10.01.2025	
		Dr. M. Arivanandhan (University Nominee)	• Include the TAG, and DSC experiments in the R2026 • Suggested including Nanotechnology in practical / laboratory courses.				
		Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	• Plan for implementing sustainable product development- based Experiments using available machineries • Course outcome should be modified with action verbs of RBT				

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
2.	Curriculum and Syllabi of PG Programmes (R2025).	Dr. M. Arivanandhan (University Nominee Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	• Include smart textiles, functional textiles, and medical textiles. • Incorporate SPSS/Minitab for quality evaluation labs and include analytical courses to enhance research and focus on advanced technologies.	Implement in PG R2025 syllabus.	MC/CD	13.12.2024	
3.	Revision in the Curriculum and Syllabi of I to V Semester (R2022) of UG Programmes and PG Programmes.	Dr. M. Arivanandhan (University Nominee Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	• Add weaving preparatory machines with electronic clearers in Fabric Manufacturing Technology I. • Add higher-order thinking skills in COs. • Implement Product development-based Experiments using available machineries	Update and roll out revisions.	MC/CD	25.12.2024	
4.	Revision in the Curriculum and Syllabi of VIII Semester (R2018) of UG Programmes.	--	--	--	--	--	--
5.	Curriculum and Syllabi for Minor and Honour Degree Programmes (UG: R2022 & R2026; PG: R 2025).	External Members	• Members suggested to Include advanced practical experiments and align electives with NEP 2020.	Implement in upcoming revisions.	MC/CD	10.01.2025	
6.	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Dr. M. Arivanandhan (University Nominee	**UG : 164 Credits** **PG : 72 Credits.**	Approved and Rollout	MC/CD	30.05.2025	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Mr S Arun Prasad (Alumni)	**ii. Curriculum for I to VIII Semester Courses (R2026) and Recommendations** • Incorporate cross-disciplinary electives with a focus on data analytics and IoT. • Enhance industry collaborations for practical exposure through internships and sponsored projects.	• **Core Courses**: Covering Fibre Science, Yarn Manufacturing, Fabric Manufacturing, Textile Chemical Processing, Knitting Technology, and Speciality Textiles. • **Elective Courses**: Options in advanced topics like Functional Finishes, High Performance Fibres, and protective textiles • **Skill-Based Courses**: Career guidance courses, internships, and project work ensure hands-on learning. • **Innovation and AI**: Incorporating courses like Artificial Intelligence and Machine Learning in Textiles • **Sustainability**: Courses such as Technical Textiles and Sustainable Textile Processing focus on environmentally friendly practices.	MC/CD	30.05.2025	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Dr.G. Karthikeyan (BoS Chairman) Dr. K.Saravanan (Subject Expert)	**iii. Curriculum for I to IV Semester Courses (R2025) and Recommendations** 1. Introduce more courses on advanced technologies with smart, IoT, AI and functional textiles 2. Include Management related paper for PG students to perform administrative Rolls.	• The curriculum is incorporated with Specialty Textile Materials, Sustainable Textile Processing, Smart and Functional Textile and Artificial Intelligence & Machine Learning. • In addition it is also given with courses like High-Performance Fibres, Functional Finishes, and Textile Composites • PG curriculum is incorporated with Project Work (Phase I & II) and Project planning and Management	MC/CD	30.05.2025	
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. M. Arivanandhan (University Nominee Dr.N.Sukumar (Subject Expert) Dr. Bharani Murugesan (Subject Expert) Mr S Arun Prasad (Alumni)	**iv. Curriculum and Syllabi to Support Progression to Higher Education, Career Guidance, Startups & Entrepreneurship & SDGs**	**Career Guidance:** o Career Skill Development courses are included across semesters to enhance employability. o As per the Regulation the Curriculum is incorporated with Inplant training and Internship. **Start ups & Entrepreneurship:** o The Curriculum is designed with dedicated courses like Startups and Entrepreneurship.	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
				○ Opportunities for hands-on projects in innovation labs and industry-sponsored initiatives. **SDGs:** ○ In addition Curriculum focus on sustainability through courses like Sustainable Textile Processing and Environmental Science.			
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. M. Arivanandhan (University Nominee Mr S Arun Prasad (Alumni	**v. Curriculum Meeting the Requirements of NEP 2020** Members suggested to incorporate • Flexibility in electives, enabling multidisciplinary learning. • Introduction of Design Thinking and Critical Thinking courses. • Focus on life skills and universal human values for holistic development	As per 2022 regulations; 2026 regulations, we have courses like 1. Professional Electives, 2. Design Thinking and Design Innovation Courses 3. The Curriculum also has UHV, Tamils and Technology, Tamilology	--	Continuous	
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**vi. Curriculum & Syllabi to Support Student Involvement in Innovative, Design & Critical Thinking Abilities and Problem-Solving Skills** • Courses like Design Thinking, Fabrication & Reverse Engineering Lab, and Innovation Labs encourage creativity.	Approved and Rollout	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
			• Research projects and capstone projects in the final year foster problem-solving skills. • Emphasis on AI and machine learning applications in textiles adds to design-oriented learning.				
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Mr S Arun Prasad (Alumni)	**vii. Incorporation of Virtual Laboratory & Industry Sponsored/Supported Courses and Laboratories** • Virtual Labs: Include Python Programming Lab, Fabrication Lab, and AI applications lab. • Industry-Supported Labs: Apparel Manufacturing Lab and Textile Testing Lab collaborate with industry leaders for hands-on training.	Approved and Rollout	--	Continuous	
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. M. Arivanandhan (University Nominee Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Mr S Arun Prasad (Alumni)	**viii. Introduction of New Courses** • Functional Textiles. • Lean and Six Sigma in Textiles. • Textile and Apparel Quality Evaluation. • AI and Machine Learning for Textiles. • Speciality Textile Materials	Approved and Rollout	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
7.	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**i. Self-Study Courses (SWAYAM/NPTEL/MOOC) Offered in 2024-25** **Odd Semester: NPTEL (2024-25):** **2. Proposed Courses:** • Principles Of Combing, Roving Preparation and Ring Spinning – II Year • Science and Technology of Weft and Warp Knitting – III Year • Supply Chain Management and Logistics – IV year **Even Semester: NPTEL (2024-25):** **3. Proposed Courses:** • Advanced Textile Printing Technology • Evaluation of Textiles Materials • New Spinning Technologies • Testing of Functional and Technical Textiles • Textile Product Design and Development • Textured Yarn Technology • Theory of Yarn Structure.	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**ii. One Credit Courses Offered in 2024-2025** **Odd Semester (2024-25):** • **Completed One Credit Courses:** • Quality and Process Control for Textile Manufacturing **Even Semester (2024-25):** • **Proposed One Credit Courses:** • Eco friendly Dyeing	Approved and Rollout	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
			• Process Control in the Garment Industry • Information Technology in Apparel and Fashion Industry				
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**iii. Skill-Based Courses Offered in 2024-25** **Odd Semester (2024-25):** • **Proposed Skill-Based Courses:** • Knitting Technology • Textile Chemical Processing II **Even Semester (2024-25):** • **Proposed Skill-Based Courses:** • Garment Manufacturing Technology I • Textile and Apparel Quality Evaluation	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	External and Internal Members	**iv. International Certification in 2024-25 and Identification of Future Certifications** **Odd Semester (2024-25):** NIL **Even Semester (2024-25):** • **Planned Certifications:** • Lean Six Sigma in Textiles. • IoT and Smart Textiles Certifications	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**v. Roll Out of Laboratory Classes to Encourage Design Contests, Hackathons, and Ideathons** • **Proposed Enhancements:** • **Innovation Labs:** • Textile CAD Lab • **Contests Participation:** • Garment Construction Laboratory II	Approved and Rollout	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
	Discussion on Choice Based Credit System	External and Internal Members	**vi. Evaluation Pattern for Integrated, Project-Based & System-Based Courses** • Members suggested to incorporate project-based learning and system based courses	Professional core 1. Artificial Intelligent and Machine learning ; 2. Fashion Design Process and Innovation is planned to have as a system based and project based learning	MC/CD	30.05.2025	
	Discussion on Choice Based Credit System	External and Internal Members	**vii. Internship Details of Students (2nd, 3rd & 4th Year)** Provide mentorship from industry professionals for final-year projects.	The Institution is following One Industry one faculty - through that, students are provided with mentorship! 15 to 25% encouraged to do Industry projects	PC	Continuous	
8.	List of Open Elective Courses offered in 2024-2025 (Odd Semester) and planned for Even Semester.	External and Internal Members	• Open Electives: Fibre Science, Basic Textile Technology, Introduction to Fashion and Industrial Textiles.	Approve and roll out courses.	MC/PC	--	
9.	Stakeholders' Feedback and Action Taken Report.	Stakeholder	• Suggested to remove outdated content, integrate automation technologies, and focus on sustainability practices.	Review and update curriculum R2022, R2025(PG), R2026(UG).	MC	Continuous	
10.	Suggestions from IQAC.	IQAC	• Proposed Curriculum modernised to align with industry practice and sustainability	Implement changes progressively.	MC	Continuous	
11.	Any Other Matters.	Internal and External Members	• Introduce innovative course designs emphasizing industry-sponsored courses. • Include additional advanced practical experiments in core subjects.Combine nonwoven technology within Fabric Manufacturing Technology I & II • Address content repetition in electives.	Implement in R2026 and R2025 syllabi.	MC/PC	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
			• Introduce thrust area programs such as technical textiles and material Characterisation. • Offer more SWAYAM/NPTEL courses and introduce project-based evaluations. • Focus on self-study and one-credit courses to enhance interdisciplinary learning.				

12/12/24.
BoS Coordinator

12/12/24
HoD-Textile

12/12
Dean Academics

12/12/2024
Dean Admin

Principal

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215.

DEPARTMENT OF MANAGEMENT STUDIES

Board of Studies Meeting

Attendance List

Date: 18.11.2024

S. No.	Details of the Members	Particulars	Signature
1	Dr. V. Lavanya Associate Professor Department of Management Studies, National Institute of Technology, Trichy Mobile Number - 94871 17596 E mail address - lavanya@nitt.edu	Anna University Nominee	V. Lavanya 18/11/2024
2	Dr. A G V Narayanan Director Jansons School of Business Coimbatore Mobile Number: 8667216390 E mail address: director@jsb.ac.in	Subject expert	18/11/24
3	Dr. K V Nithyananda Assistant Professor Indian Institute of Management Trichy Mobile Number: 74183 63405 E mail address: nithyananda@iimtrichy.ac.in	Subject expert	———
4	Mr.C.Ram Senior Manager- HR JSW Steel Limited Salem Works: Pottaneri P.O., Mecheri, MetturTaluk, Salem Dist 636 453 Tamil Nadu, India Mobile no 7904652498 Mail ID: ram.chandrasekar@jsw.in	Expert from Industry	C.Ram 18/11/24
5	Mrs.S.Shobana Project Manager Supply Chain Services Bosch Global Software Technology Pvt.Ltd Coimbatore Mobile : 84896 09900 Mail Id : S.shobana@in.bosch.com	Meritorious Alumnus	18/11/24
6	Dr.M.Vijayakumar Professor & Head Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	BoS Chairman & Module Co-ordinator for Marketing Stream	18/11/2024

7	Dr.R.Hemamalini Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	BoS Coordinator, Program Co-ordinator & & Module Co-ordinator for HR Stream	18/11/24
8	Dr.M.Ramakrishnan Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Module Co-ordinator for Operations Stream	18/11/24
9	Dr.H.Kalaiarasi Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Module Co-ordinator for Finance Stream	18/11/24
10	Mr.V.S.Vijaychander Associate Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Member	18/11/24
11	Mr.R.Murugaganesh Assistant Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Member	18/11/24
12	Dr.E.Kalaivani Assistant Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Member	18/11/24
13	Mr.P.Palani Bharathi II MBA	Student Member	
14	Ms. Shakthicharumaa K I MBA	Student Member	

18/11/2024

Chairman/MBA

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of the Board of Studies Meeting

Department of Management Studies

	BoS Meeting No:27			**Date:**	**18.11.24**	**Venue:**	**Fintech Laboratroy/MBA**
S.No	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum and syllabi of VII & VIII Semester – R2022**	Dr. V. Lavanya Associate Professor MBA, National Institute of Technology, Trichy (Anna University Nominee)	BoS Chairman welcomed all the BoS members. BoS Chairman briefed about the whole curriculum of R2022 to the members. The curriculum and syllabus for the I-IV semesters of MBA program R2022 were discussed.	Members of the BoS approved the current R2022 curriculum as presented.	HoD & all Faculty members	**2024-25**	-
2.	**Revision in the Syllabi of I - VI Semester - R 2022**	Dr. A G V Narayanan Director Jansons School of Business Coimbatore (Subject Expert) Mr.C.Ram Senior	i. The BOS members recommended for combining the summer internship and project work, possibly in the same organization, so that both the firm and the students could benefit from training and placement.	i.BoS chairman explained the practical difficulty and informed that suggestions may be considered for R2025	HoD & all Faculty members	**2024-25**	-

		Manager- HR JSW Steel Limited (Industry Expert)					
		Dr. V. Lavanya Associate Professor MBA, National Institute of Technology, Trichy (Anna University Nominee)	ii. The Seminar course need not be on "Principles of management" instead, Seminar can be as part of subject activity.	ii. It will be implemented in the R2025.	HoD & all Faculty members	**2024-25**	-
		Mrs.S.Shobana Project Manager Supply Chain Services Bosch Global Software Technology Pvt.Ltd Coimbatore (Alumnus)	iii. The Corporate Social Responsibility and sustainability course can also be given as field projects.	iii Suggestions are taken into consideration and it will be implemented in the curriculum R2025			
			iv. As per Suggestion from Stakeholders the following subjects have the modifications in few topics	iv. As per Stakeholders suggestion following contents were discussed and included for the			

			60 MB 201 – Production Management 60 MB 202 – Human Resources Management 60 MB 203 – Marketing Management 60 MB 4F2 - Insurance Management 60 MB 4H2 – Performance Management	below mentioned subjects. 60 MB 201 – Production Management – Cross-docking – Inventory KPI – AI and Machine learning in production improvement 60 MB 202 – Human Resources Management – Management of turnover and retention – Role of globalization in HRM. 60 MB 203 – Marketing Management – Ecommerce in Marketing. 60 MB 4F2 - Insurance Management – Financial Frauds in market. 60 MB 4H2 – Performance Management – Team based management			

			60 MB 4H1 – Competency Management 60 MB 4O1 – Logistic Management	strategy – Modern techniques. 60 MB 4H1 – Competency Management – Managing next Generation Z Employees 60 MB 4O1 – Logistic Management – Route optimization – AI and Machine learning			
4.	**List of open elective courses and value-added courses**	Value added course like Power Bi, SAP ERP and Design Thinking were suggested by BOS members.					
5.		i.Discussion about R 2025 total credits of 102 was designed. BoS members agreed the total credits without any change ii.Curriculum for I to IV semesters courses of R2025 for the batch of students to be admitted in the academic year (2025 -2026) were discussed and recommendations given by the BoS members. Members agreed towards the structure of the curriculum R2025 of I to IV semester. Recommendations considered are as follows: Members suggested few modifications as follows: a. Foundation course on management and Organizational Behaviour course can be combined together. Foundation course on management and Organizational Behaviour course was combined with a new course name Management concept and Organizational behavoiur. b. The MIS course can be included in the first semester. The MIS course was included in the first semester. c. The summer internship and the project work together can be provided for 3 months as one internship cum project.					

	Discussion on I to proposed curriculum of IV Semester for R 2025(PG)	The suggestion on the internship and the project work courses were taken forward for further discussion. iii. Members discussed the contribution of career guidance, startups, entrepreneurship, cross cutting issues and Sustainable Development Goals (SDGs) in the Curriculum R2025 and confirmed it. The contribution of career guidance, startups, entrepreneurship, cross cutting issues and Sustainable Development Goals (SDGs) in the Curriculum R2025 are given in the following list of courses: • Career guidance (Professional Development lab I, II and III) • Startups & entrepreneurship (Core subject Entrepreneurship development and Internship) SDG goals (Core subject Sustainable development and Social Immersion project) were covered iv. Members discussed about the Curriculum meeting the requirements of NEP 2020. As part of NEP implementation the NISM certification course can be considered for course waiver or as additional credits earned by student v. Curriculum R2025 was also examined and found to be satisfactory in supporting students' engagement in creative, design, and critical thinking skills as well as their problem-solving ability. Curriculum R2025 supports student involvement in innovative, design & critical thinking abilities through following courses such as: • Business analytics • Business Statistics • Operations research • Design thinking vi. BoS members suggested to have Fin Tech as Industry supported course and laboratory. It has been decided to include Fin Dynamics as an integrated course in R2025 curriculum. vii. BoS members suggested few new courses such as Supply chain analytics and Project Management. The suggestion will be implemented as discussed in the new regulation R2025 The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.

6.	**Discussion on Curriculum of PG-M.C.A I to IV Semester R2025**	i.Discussion on new PG programme -M.C.A. to be introduced in computing departments in the upcoming year The proposed M.C.A. program can be a good choice for people who want to advance their careers in the IT industry by offering an industry-relevant curriculum focused on emerging technologies, employability, and innovation, growth in computing education. ii. The M.C.A. program is a two-years PG Programme and the curriculum offering advanced courses to • Boost employability with industry-relevant skills and strengthen ties with IT firms for internships and projects • Encourage interdisciplinary learning and problem-solving. ▪ Presented the proposed Curriculum R 2025 for M.C.A Programme. iii. Total No. of credits for the PG programme(M.C.A) - 83 The proposed Curriculum meet the requirements to pursue higher education & career guidance and start-ups & entrepreneurship & cross cutting issues. iv. Preparation for I to IV semester subjects and Recommendations The BoS members approved that the proposed Curriculum improves innovative, design & critical thinking skills and problem-solving abilities of students v. Curriculum shall meet the Requirements to pursue higher education & Career guidance and startups & entrepreneurship & cross cutting issues vi. Curriculum should improve innovative, design & critical thinking skills and problem-solving abilities of students The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.

7.	**Discussion on Choice Based Credit System**	i. Discussed about the proximity of offering NPTEL course as self-study courses : NPTEL courses offered in 2024-25 (ODD Semester) are: Service marketing, Toyato Production system and Organizational Development. Courses planned to be in 2024-25 (EVEN Semester) are Advertising and promotion management and Talent Acquisition ii. Members discussed about the proximity of offering skill based, value added courses to the students. The few courses such as AI in Management, Python and Advanced Excel were taken into consideration for further discussion. "Role of AI in Management " topic is planned to be offered for the even semester 2024-25 as Value added course. iii. Members discussed about evaluation pattern of integrated courses All the integrated courses will consist of 30 hours of Theory and 30 hours of practical. The theoretical aspect consists of two continuous Assessment Tests, 2 Assignments, 2 Quizzes. iv. Members suggested to have one mandatory internship as a part of the curriculum R2025. Summer Internship is included in the R 2025 Curriculum as a practical component in III semester.
8.	**Stake holders feedback and action taken**	Discussion about the stakeholders feedback was held Few topics were included in R2022 II and IV semester subjects as per the suggestion given by stakeholders 60 MB 201 – Production Management – Cross-docking – Inventory KPI – AI and Machine learning in production improvement 60 MB 202 – Human Resources Management – Management of turnover and retention – Role of globalization in HRM. 60 MB 203 – Marketing Management – Ecommerce in Marketing. 60 MB 4F2 - Insurance Management – Financial Frauds in market. 60 MB 4H2 – Performance Management – Team based management strategy – Modern techniques 60 MB 4H1 – Competency Management – Managing next Generation Z Employees 60 MB 4O1 – Logistic Management – Route optimization – AI and Machine learning
9.	**Suggestions from IQAC**	Value added course can be given based industry requirement. Like power Bi and SAP courses.
10.	**Any other matters**	i. BoS Members reviewed Vision, Mission Program Educational Objectives, Program Objectives of the department All the BoS members were satisfied with the present Vision, Mission Program Educational Objectives, Program Objectives of the department.

		ii.Discussed about the opportunity for Student foreign internships. Members suggested for collaboration with top B-schools in state and national level. Collaboration with top B-schools in state and national level will be considered and discussed. iii. Members suggested to go for increase intake as the requirement of MBA program in the market is high. As per members suggestion it is decided to go for increase intake for the academic year 2025-2026. iv. Question pattern discussion and assessment of internal marks. Members suggested to have two continuous assessment test and two activity or assignment for each subjects in a semester as a part of internal assessment.

BoS Chairman

Dean Admin

Principal

K.S.Rangasamy College of Technology, Tiruchengode-637 215
Department of Science and Humanities
27th Board of Studies Meeting – Attendance Sheet

Date: 20.11.2024 **Time: 09:30 AM**

Hybrid Mode:

Virtual Meeting Link: http://surl.li/hecija

Physical Meeting Venue: Mechatronics Conference Hall

S.No.	Name of the Faculty	Designation	Signature
1.	Dr.K.Ganesamoorthy	University Nominee Assistant Professor (Sr.Gr.) Department of Mathematics Coimbatore Institute of Technology Coimbatore	
2.	Dr.J.Anbazhagan Vijay	Subject Expert Professor and Head Department of English Government College of Technology Coimbatore	
3.	Dr.K.V.Hemalatha	Subject Expert Assistant Professor Department of Chemistry Coimbatore Institute of Technology Coimbatore	
4.	Dr.V.N.Vijayakumar	Subject Expert Professor Department of Physics Bannari Amman Institute of Technology Sathyamangalam	
5.	Dr.K.Senthilvadivu	Professor & Head / Mathematics	
6.	Dr.A.Palaniappan	Professor & Head / English	
7.	Dr.M.Umai Arasi	Associate Professor / English	
8.	Dr.V.Vasudevan	Associate Professor & Head / Physics	
9.	Dr.P.Suthanthirakumar	Assistant Professor / Physics	
10.	Dr.T.A.Sukantha	Professor & Head / Chemistry	
11.	Dr.S.Meenachi	Associate Professor / Chemistry	
12.	Dr.C.Chandran	Professor / Mathematics	
13.	Dr.N.Lalithamani	Professor / Mathematics	
14.	Dr.N.Uthirasamy	Professor / Mathematics	
15.	Dr.S.Muthukumar	Associate Professor / Mathematics	
16.	Dr.K.Kiruthika	Associate Professor / Mathematics	
17.	Mr.G.Mohan	Assistant Professor / Mathematics	
18.	Mrs.D.Padmavathi	Assistant Professor / Mathematics	
19.	Dr.D.Senthilraja	Assistant Professor / Mathematics	
20.	Mrs.S.Sripadma	Assistant Professor / Mathematics	
21.	Dr.D.Tamizharasan	Assistant Professor / Mathematics	
22.	Mrs.V.Thivya	Assistant Professor / Mathematics	
23.	Mrs.K.Kavitha	Assistant Professor / Mathematics	
24.	Mr.P.M.Saravanan	Assistant Professor / Mathematics	

BoS Chairman
(Dr.K.Senthilvadivu)

Board of Studies
Faculty of Science and Humanities
K.S.Rangasamy College of Technology
Tiruchengode - 637 215. Namakkal-Dt.

K.S.Rangasamy College of Technology, Tiruchengode-637 215

Department of Science and Humanities

27th Board of Studies Meeting

Period: 2024-25

Date: 20.11.2024 **Time: 09:30 AM**

Hybrid Mode:

Virtual Meeting Link: http://surl.li/hecija

Physical Meeting Venue: Mechatronics Conference Hall

The Board of Studies meeting held on 20.11.2024 in a hybrid mode started with the Greeting and welcome by the Board of Studies Chairman. The Chairman of BoS introduced the newly constituted BoS External and internal members to the forum.

The following External BoS members were present at the meeting:

S.No.	Name	Designation	Representation
1.	Dr.K.Ganesamoorthy	Assistant Professor (Sr. Gr.), Department of Mathematics, Coimbatore Institute of Technology, Coimbatore	University Nominee
2.	Dr.J.Anbazhagan Vijay	Professor and Head, Department of English, Government College of Technology, Coimbatore	Subject Expert - External
3.	Dr.K.V.Hemalatha	Assistant Professor, Department of Chemistry, Coimbatore Institute of Technology, Coimbatore	Subject Expert - External
4.	Dr.V.N.Vijayakumar	Professor, Department of Physics, Bannari Amman Institute of Technology, Sathyamangalam	Subject Expert - External
5.	Dr.K.Senthilvadivu	Professor & Head / Mathematics	Chairman & Subject Expert Nominated by the Principal
6.	Dr.A.Palaniappan	Professor & Head / English	Subject Expert Nominated by the Principal
7.	Dr.M.Umai Arasi	Associate Professor / English	

8.	Dr.V.Vasudevan	Associate Professor & Head / Physics	Subject Expert Nominated by the Principal
9.	Dr.P.Suthanthirakumar	Assistant Professor / Physics	
10.	Dr.T.A.Sukantha	Professor & Head / Chemistry	Subject Expert Nominated by the Principal
11.	Dr.S.Meenachi	Associate Professor / Chemistry	
12.	Dr.C.Chandran	Professor / Mathematics	
13.	Dr.N.Lalithamani	Professor / Mathematics	
14.	Dr.N.Uthirasamy	Professor / Mathematics	
15.	Dr.S.Muthukumar	Associate Professor / Mathematics	
16.	Dr.K.Kiruthika	Associate Professor / Mathematics	
17.	Mr.G.Mohan	Assistant Professor / Mathematics	
18.	Mrs.D.Padmavathi	Assistant Professor / Mathematics	
19.	Dr.D.Senthilraja	Assistant Professor / Mathematics	
20.	Mrs.S.Sripadma	Assistant Professor / Mathematics	
21.	Dr.D.Tamizharasan	Assistant Professor / Mathematics	
22.	Mrs.V.Thivya	Assistant Professor / Mathematics	
23.	Mrs.K.Kavitha	Assistant Professor / Mathematics	
24.	Mr.P.M.Saravanan	Assistant Professor / Mathematics	

The following Agenda was taken for deliberation:

S.No.	Items
1.	Discussions and suggestions for Curriculum of I and II Semesters of UG courses of R2026 (B.E./B.Tech.)
2.	Discussions and suggestions for Curriculum and Syllabi of I semester of PG courses of R2025 (M.E./ M.Tech.)

The detailed discussion made by the Internal and external members as given in the agenda are given below:

BoS Meeting No: 27		Date: 20.11.2024			Venue: Mechatronics Conference Hall		
S.No.	Agenda	Name	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
1.	Discussion on Curriculum of I and II Semesters of R2026 (B.E./B.Tech.) and I Semester of M.E./ M.Tech. of R2025	**Dr.K.V.Hemalatha**	**Chemistry:** 1. The expert member was appreciative of the 'deep learning' concept introduced in 'Chemistry for Electrical Sciences and Engineering Chemistry' 2. It was suggested to introduce in 'Environmental Science' paper a topic, 'AI in monitoring pollution control' and offer it as a 2 credit course. 3. The member clarified the method of introducing 'AI, Deep Learning & Machine Learning' application process in the students' learning Process.	Updated as per suggestions	Dr.TASukantha BoS member	To be Submitted for Academic Council approval	Nil
		Dr.V.N.Vijayakumar	1. The HoD was asked to refer the syllabus of Anna University 2. Instead of titles like 'Physics for FT'/'Physics for BT', customized titles may be thought of 3. Instead of introducing 'Crystallography' for all branches, it may be introduced for Suitable branches	Updated as per suggestions	Dr.V.Vasudevan BoS member	To be Submitted for Academic Council approval	Nil
		Dr.J.Anbazhagan Vijay	1. The courses in R 2022 are- 60 EN 001 Professional English-I & 60 EN 002 Professional English-II The End Semester Theory Examinations for the above courses are to be conducted in Lab mode. The same was ratified and approved by the BoS Subject expert. 2. The member clarified if 'Career Skill Development' & 'Business English & Value Science' courses are already in practice. 3. He also recommended to have a common English Course for all First B.E./B. Tech including B.Tech CSBS.	Updated as per suggestions	Dr.A.Palaniappan BoS member	To be Submitted for Academic Council approval	Nil

		Dr.K.Ganesamoorthy	1. One or two suojects may be made common for all S&H boards; individual papers, if needed, may be made department specific.	Updated as per suggestions	Dr.K.Senthilvadivu BoS Chairman	To be Submitted for Academic Council approval	Nil
2.	Discussions and suggestions for Curriculum of I and II semesters of UG courses of R2026	**Dr.K.V.Hemalatha**	1. End Semester assessment may be opted for 'Environmental Science' paper'. 2. In 'Environmental Science' paper', the topic 'Pollution & its management' may be titled as 'AI, Deep Learning & Machine Learning' in Pollution Control.	Updated as per suggestions	Dr.TASukantha BoS member	To be Submitted for Academic Council approval	Nil
		Dr.V.N.Vijayakumar	1. The inclusion of applications of physics principles in engineering and technology may be considered for the syllabus 2. The curriculum was designed well 3. Suggestions for customizing the titles in the curriculum was suggested	Updated as per suggestions	Dr.V.Vasudevan BoS member	To be Submitted for Academic Council approval	Nil
		Dr.J.Anbazhagan Vijay	1. He recommended a 3-credit course with theory component and a 2-credit Practical course in each semester for English in the proposed curriculum of R-2026 for First year B.E./B. Tech	Updated as per suggestions	Dr.A.Palaniappan BoS member	To be Submitted for Academic Council approval	Nil
		Dr.K.Ganesamoorthy	1. The committee suggested that MATLAB may be taught as a value-added course for all students irrespective of branches. 2. The members felt that for all boards, after inclusion of topics under modules, a deeper discussion may be planned in the next round of discussion at the next meeting.	Updated as per suggestions	Dr.K.Senthilvadivu BoS Chairman	To be Submitted for Academic Council approval	Nil
3.	Discussions and suggestions for Curriculum of I semester PG courses of R2025	**Dr.K.Ganesamoorthy**	1. The members suggested to introduce a joint course for all S& H Research Scholars in common	Updated as per suggestions	Dr.K.Senthilvadivu BoS Chairman	To be Submitted for Academic Council approval	Nil
		Dr.K.V.Hemalatha	1. Value added courses may be offered as one credit course. 2. Open elective may be suggested for students based on their domain.	Updated as per suggestions	Dr.TASukantha BoS member	To be Submitted for Academic Council approval	Nil

4.	Discussion on syllabi of I and II Semesters of R2026 (B.E./B.Tech.) and I Semester of M.E./ M.Tech. of R2025	**Dr.V.N.Vijayakumar**	1. One common PG Course for S&H (Maths, Physics, Chemistry & English) may be introduced as a PG course in 'Research Methodology'; S&H as PG department only for 'Research & Development' purposes for getting R&D status; 2. Remember & Understanding level questions may be kept to 5-10% and Apply & analysis level questions may be kept as maximum in the assessment pattern. 3. Sustainability Goals to be introduced at all appropriate places	Updated as per suggestions	Dr.V.Vasudevan BoS member	To be Submitted for Academic Council approval	Nil
		Dr.J.Anbazhagan Vijay	1. The member suggested to have a detailed discussion after topics are planned under each module.	Updated as per suggestions	Dr. A. Palaniappan BoS member	To be Submitted for Academic Council approval	Nil
		Dr.K.Ganesamoorthy	**Maths UG Courses:** **1.** For CSBS integrated courses, the roll out of classes & lab component was clarified 2. Internal Assessment and Quiz components were also discussed at the forum 3. The member was very much appreciative of the classification aspect of the assessment patterns. **PG Courses:** 1. **Applied Maths for VLSI**-syllabus and topics are OK and satisfactory and Course name is to be modified. 2. **M.E CSE**: Syllabus and topics are satisfactory; 1 book from the reference may be brought in the 'Textbook' category as it includes all topics in the syllabus. 3. **M.E. for Structural Engg:** 'Matrix & Operation to be removed; in other aspects the syllabus is OK 4. **ME ISE: U**nits 1 & 5 may be customized further and add continuous distribution and remove multiple regression.				

			5. **M.E. PSE:** M ix & Optimization for PSE was suggested; in "Linear Programming problem-'duality' topic may be removed and course name is to be modified. 6. **M.Tech Tex:** Unit-2 title to be changed as 'Testing of Hypothesis' 7. **M.Tech DS:** It may be checked if the topic 'Nullity' to be included and the last unit may be modified further and remove basic concepts of Matrices and properties. 8. **M.Tech BT:** 3rd & 4th units may be interchanged 9. **M.Tech FT:** Statistics & optimization for FT was suggested; the topic 'duality' may be removed.	Updated as per suggestions	Dr.K.Senthilvadivu BoS Chairman	To be Submitted for Academic Council approval	Nil

The Chairman of Board of Studies thanked all the members for their active participation and cordially invited them for the next meeting.

HoDs

1. **HoD/English** 23/11/24
2. **HoD/Maths** 23/11/24
3. **HoD/Physics** 23/11/24
4. **HoD/Chemistry** 23/11/2024

23/11/24

BoS Chairman

CHAIRMAN
Board of Studies
Faculty of Science and Humanities
K.S.Rangasamy College of Technology
Tiruchengode - 637 215. Namakkal-Dt.

Principal

23/11/24

ANNEXURE – I
K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215.

DEPARTMENT OF CIVIL ENGINEERING

BOARD OF STUDIES MEETING

Meeting No	28
Date and Time	17.06.2025, 02.30 p.m.
Mode	Hybrid Mode
Meeting Link	https://ksrct.link/q/2t1y406
Venue	Board Room, Pratham Block K.S. Rangasamy College of Technology, Tiruchengode – 637 215.

S. No	Name	Designation as per UGC	Designation / Affiliation with full contact details	Signature
1.	Dr.P.Mageshkumar	Chairman	Associate Professor & Head Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	17/06/25
2.	Dr. Ibrahim Bathusha M	University Nominee	Professor (CAS) Department of Civil Engineering, PSG College of Technology, Coimbatore, Tamilnadu, India.	Attended through Online
3.	Dr.V.Satheeskumar	Subject Expert	Associate Professor, Department of Civil Engineering, Government College of Technology, Thadagam Road, Coimbatore,Tamil Nadu - 641 013	Attended through Online
4.	Dr.G.Arun Kumar	Subject Expert	Associate Professor, Department of Civil Engineering, Government College of Engineering, Salem Tamil Nadu-636 011	Attended through Online
5.	Mr. S. Lokesh Kumar	Industry Expert	Territory Manager Technical, Customer Solutions, UltraTech Cement Limited, Chennai.	Attended Through Online
6.	Mr. S. Kumaran	Meritorious Alumni	Senior Engineering Manager, Larsen & Toubro, Chennai.	
7.	Dr.G.Vennila	Member	Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	17/6/25
8.	Dr.N.Ramesh	Member	Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	17/6/25

S. No	Name	Designation as per UGC	Designation / Affiliation with full contact details	Signature
9.	Dr.S.Ramesh	Member	Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
10.	Dr.J.Abdul Bari	Member	Associate Professor Associate Professor & Head Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
11.	Dr.R.Jagadeesan	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
12.	Dr.M.Velumani	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
13.	Dr.S.Gunasekar	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
14.	Dr.K.Yuvaraj	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
15.	Dr.K.Vijaya Sundravel	Member	Assistant Professor Department of Civil Engineering K.S.Rangasamy College of Technology,Tiruchengode-637215	
16.	Prof. K. Tamilarasu	Member	Assistant Professor Department of Chemistry K.S.Rangasamy College of Technology,Tiruchengode-637215	
17.	Dr.K. Prabakaran	Member	Assistant Professor Department of Mathematics K.S.Rangasamy College of Technology,Tiruchengode-637215	
18.	Dr. A. Palaniappan	Member	Assistant Professor Department of English K.S.Rangasamy College of Technology,Tiruchengode-637215	

17/06/25

CHAIRMAN
Board of Studies
Faculty of Civil Engineering
K.S.Rangasamy College of Technology
TIRUCHENGODE 637 215.

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215

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

Minutes of the Board of Studies Meeting

Department of Civil Engineering

BoS Meeting No: 28				Date: 17.05.2025	Venue:	Hybrid Mode / Mechanical Board Room	
S.No	Agenda	Name & Nominee	Discussion/Suggestion	Action to be taken	Responsibility	Target	Remarks
1	**Curriculum of UG Programme– R2026**	Dr. Ibrahim Bathusha M University Nominee	Suggested to change the **"Surveying"** course from theory to theory cum practical in III Semester.	Based on the recommendation, the **"Surveying"** course has been changed from theory to theory cum practical.	Module Coordinator	Immediate, Updation in R2026 curriculum	Submitted to Academic Council for Approval
			Suggested to change the **"Computer Aided Building Drawing Laboratory"** course to **"Building Information Modeling Laboratory".**	As per the suggestion, the **" Computer Aided Building Drawing Laboratory "** course has been changed to **"Building Information Modeling Laboratory".**	Module Coordinator	Immediate, Updation in R2026 curriculum	
			Suggested to rename the course **"Engineering Chemistry"** to **"Chemistry for Civil Engineers".**	As per the suggestion, the course name has been changed to **"Chemistry for Civil Engineers".**	Module Coordinator	Immediate, Updation in R2026 curriculum	
		Dr.V.Satheeskumar Subject Expert	Suggested to change the **"Water Supply Engineering"** course from theory to theory cum practical in IV Semester.	Based on the recommendation, the **"Water Supply Engineering"** course has been changed from theory to theory cum practical.	Module Coordinator	Immediate, Updation in R2026 curriculum	
			Suggested to rename the course title from **"Structural Analysis I"** to **"Theory of Structures I".**	The course has been renamed from **"Structural Analysis I"** to **"Theory of Structures I".**	Module Coordinator	Immediate, Updation in R2026 curriculum	
			Suggested to rename the course title from **"Structural Analysis II"** to **"Theory of Structures II".**	The course has been renamed from **"Structural Analysis II"** to **"Theory of Structures II".**	Module Coordinator	Immediate, Updation in R2026 curriculum	
			Suggested to change the **"Wastewater Engineering"** course, as theory cum practical course.	The **"Wastewater Engineering"** course has been changed as theory cum practical course.	Module Coordinator	Immediate, Updation in R2026 curriculum	

1	**Curriculum of UG Programme– R2026**	Dr.G.Arun Kumar Subject Expert	Suggested to rename the course title from **"Advanced Reinforced Concrete Design"** to **"Reinforced Concrete Design II".**	The course has been renamed from **"Advanced Reinforced Concrete Design"** to **"Reinforced Concrete Design II".**	Module Coordinator	Immediate, Updation in R2026 curriculum	
		Mr. S. Lokesh Kumar Industry Expert	Suggested to include the **"Hydrology"** course under the Water Resources Engineering vertical	The **"Hydrology"** course has been included under the Water Resources Engineering vertical as per the recommendation.	Module Coordinator	Immediate, Updation in R2026 curriculum	
			Suggested to include the course **"Rebar and Structural Steel Detailing Laboratory"** in the 7th semester	As per the suggestion, the course **"Rebar and Structural Steel Detailing Laboratory"** has been included in the 7th semester curriculum	Module Coordinator	Immediate, Updation in R2026 curriculum	
			Suggested to include a **"Mini Project"** in the 6th semester.	As per the suggestion, the **"Mini Project"** has been included in the 6th semester curriculum	Module Coordinator	Immediate, Updation in R2026 curriculum	Submitted to Academic Council for Approval
			Suggested to move the **"Geotechnical Engineering Laboratory"** course from 4th semester to 5th semester.	As per the suggestion, the **"Geotechnical Engineering Laboratory"** course has been moved from 4th semester to 5h semester	Module Coordinator	Immediate, Updation in R2026 curriculum	
		Mr. S. Kumaran Meritorious Alumnus	Suggested to change the **"Geotextiles and its Applications in Civil Engineering"** course, as theory cum practical course.	The **"Geotextiles and its Applications in Civil Engineering"** course has been changed as theory cum practical course.	Module Coordinator	Immediate, Updation in R2026 curriculum	
			Suggested to rename the course **"Chemistry for Civil Engineering"** to **"Chemistry for Civil Engineers"** for consistency and better alignment with professional context and clarity.	The course name has been renamed as **"Chemistry for Civil Engineers"** in the curriculum and syllabus.	Module Coordinator	Immediate, Updation in R2026 curriculum	
			Suggested that the **"Rebar and Structural Steel Laboratory"** course can be introduced in 7th semester	As per the suggestion, the **"Rebar and Structural Steel Laboratory"** course has been introduced in the 7th semester.	Module Coordinator	Immediate, Updation in R2026 curriculum	
2.	**Curriculum of PG Programme– R2025**	Dr.V.Satheeskumar (Subject Expert) Mr. S. Kumaran (Meritorious Alumnus)	The curriculum and syllabi of I – IV semester of R2025 PG is presented and the following suggestions were given It was suggested to move the **"Structural Dynamics"** course to the **Professional Core** category for the **M.E. Structural Engineering** program, as this course directly contributes to the specialized knowledge required for advanced structural engineering. Additionally, some **Basic Courses** like **"Design of Structures for Dynamic Loads"** in the program could be moved to the **Elective** category to allow students for more flexibility and choice in selecting courses aligned with their interests.				

3.	**Minor and Honor degree course curriculum and syllabi in R2022**	Dr. Ibrahim Bathusha (University Nominee) Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert) Mr. S. Kumaran (Meritorious Aluminus)	Based on the willingness of the 2023–27 batch students. the members suggested to include the following courses for the Honors degree (R-2022). 1. 60CEH01- Architecture and Town Planning 2. 60CEH02- Traffic Engineering and Management 3. 60CEH03- Building Services 4. 60CEH04- Climatic Changes and Adaptation Measures 5. 60CEH05- Application of Remote sensing and GIS in Engineering 6. 60CEH06- Disaster Management.	All the courses are included in the honors degree	BoS Chairman	Contin uous	Submitted to Academic Council for Approval
4.	**List of open elective courses and value-added courses offered in 2024-25 (Even Semester) and planned to offer in 2025-26 (Odd Semester)**	Dr. Ibrahim Bathusha (University Nominee) Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert) Mr. S. Kumaran (Meritorious Alumnus)	The following open elective courses were offered in 2024-25 (Even Semester) 1. 60 CE L01 - Waste Management Techniques 2. 60 CE L10 - Disaster Management. **List of open elective courses to be offer in 2025-26 (Odd semester)** 1. 60 CE L02 – Climatic Changes and Adaptation Measures Dr. Ibrahim Bathusha, M, University Nominee suggested to offer the Climatic Changes and Adaptation Measures as the open elective course as the other department students can understand the global environmental concerns The value-added course planned to offer in the Odd semester (2025-2026) for UG program 1. Building Information Modelling 2. Building Valuation / NBC Bye-Laws 3. Rebar and Structural Steel Detailing The Board of Studies members approved the list of Open Electives and Value-added Courses. The List of courses has been submitted to the academic council meeting for the further approval			
5.	**Discussion on Curriculum of VII to VIII Semester for R 2022 (UG)**	Dr. Ibrahim Bathusha (University Nominee) Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert) Mr. S. Lokesh Kumar Industry Expert	**I. Total No. of credits for the UG programme** The Curriculum and Syllabi of R2022 of UG and PG was presented. Curriculum of Civil Engineering (UG) R2026 is 163 credits. For M.E. Structural Engineering (PG) R2025 is 73 credits. **II. Curriculum and syllabi shall meet the requirements to pursue higher education, career guidance, Startups & Entrepreneurship & Crosscutting issues** Dr. Ibrahim Bathusha and Dr.V.Satheeskumar appreciated that the prescribed Syllabus content within the requirements of AICTE. Dr.G.Arun Kumar appreciated that the curriculum and syllabi is complying with GATE 2026 Syllabus. **III. Curriculum & syllabi should improve innovative, design & critical thinking skills and problem solving abilities of students** Dr. Ibrahim Bathusha, Dr.G.Arun Kumar and Dr.V.Satheeskumar discussed that the proposed R 2026 curriculum & syllabi will enrich innovative, design & critical thinking skills and problem solving abilities of students. Dr.V.Satheeskumar & Mr. S. Lokesh Kumar Suggested to include selected laboratory experiments in the "Solid and Hazardous Waste Management" and "Geotextiles and Geosynthetics Laboratory". The course Design Thinking and Innovation & Design Thinking and Product Development was introduced in the II and III Semester			

			IV. Virtual Laboratories & Industry sponsored courses \ Specific Laboratories Dr. Ibrahim Bathusha, Dr.G.Arun Kumar and Dr.V.Satheeskumar suggested to have the virtual lab from the NITK Surathkal and other reputed institutions The Members of BOS committee approved and recommended to submit into Academic Council Meeting for further approval
6.	**Discussion on Choice Based Credit System**	Dr. Ibrahim Bathusha (University Nominee) Dr.V.Satheeskumar (Subject Expert) Dr.G.Arun Kumar (Subject Expert) Mr. S. Kumaran (Meritorious Alumnus)	**Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Even sem.) and planned to offer in Odd semester of 2025-26** **NPTEL Offered in 2024-25 (Even Sem)** • Introduction to Civil Engineering Profession (8 Weeks) • Environmental Impact Assessment (12 Weeks) • Bioclimatic Architecture: Futureproofing with Simple and Advanced Passive Strategies (12 Weeks) **NPTEL planned to offer in 2025-26 (Odd Sem)** • Environmental Science (12 Weeks) • Architectural Approaches to Decarbonization of Buildings (12 Weeks) • Building Materials as a Cornerstone to Sustainability (12 Weeks) **II. One credit course planned to offer by industry in 2025-26 (Odd semester)** One Credit courses planned to offer are • Building Valuation **III. Skill based courses offered in 2024-25 and planned to offer in 2025-26 (Odd semester)** The following skill-based courses were offered in 2024-25 • Rebar & Structural Steel Detailing • Revit Architecture Value added courses planned to offer in 2025-26 (Odd semester) • Building Valuation / NBC Bye-Laws • Building Information Modelling • Rebar and Structural Steel Detailing **Internship for Students (2nd, 3rd & 4th Year)** 2 Weeks-1 Credits 4 Weeks-2 credits 6 Weeks and above-3 Credit Number of Students undergone internship are 2nd Year – 30 3rd Year – 22 4th Year – 12 All members suggested that the Internship is mandatory to all students and to be fulfilled by AICTE norms. All members suggested to have the NPTEL course as mandatory to all students. The BOS members recommended the courses and approved it. The course list have been submitted to Academic Council Meeting for further approval

7.	**Stake holders feedback and action taken**	The following suggestions are given by stakeholders 1. Mr. A. Prakash suggested that the "Fluid Mechanics and Hydraulic Machinery" course should be enhanced with real-time applications in hydraulics and field-based assignments to help students correlate theoretical principles with practical engineering systems. 2. Mr. K. Mohanraj recommended that the "Irrigation and Water Resources Engineering" course emphasize sustainable water management strategies, integrating climate-resilient design approaches to meet future agricultural and urban demands. 3. Mrs. R. Janani highlighted that the "Concrete Technology" course must focus on modern concreting techniques and durability-based mix designs to prepare students for performance-based structural design. 4. Mr. V. Elango suggested that the "Materials Testing Laboratory" course include digital data acquisition tools and non-destructive testing methods to align with current testing trends in the construction industry. 5. Mr. M. Arulraj recommended that the "Foundation Engineering" course incorporate soil-structure interaction case studies and foundation system comparisons, enhancing students' ability to choose cost-effective designs. 6. Mr. B. Sreenivasan highlighted that the "Highway and Railway Engineering" course should be a theory-cum-practical model to provide experiential learning in road design and track planning. 7. Mr. D. Ravi Kumar noted that "Engineering Economics and Financial Accounts" course should incorporate case studies involving project cost-benefit analysis and value engineering to strengthen decision-making capabilities. 8. Mrs. R. Meena emphasized that the "Construction Management" course must focus on modern tools such as Primavera and MS Project, along with risk assessment and quality control principles for better project handling. 9. Mr. S. Vigneshwara suggested that the "Geotextiles and its Applications in Civil Engineering" course maintain a focused approach on specialized materials, addressing both infrastructure development and environmental sustainability. 10. Mrs. N. Lavanya suggested the "Computer Aided Analysis and Design Laboratory" include exposure to current software such as ETABS, SAFE, and STAAD.Pro, along with structural modelling for real-life structures. Based on the feedback received from the stakeholder the syllabi of R2026 are updated and submitted to Academic Council meeting for the approval
8	**Any other Matters**	**Question Paper Reforms - Internal and End Semester Examination** Reforms in examination question papers for both internal assessments and end-of-semester exams can be implemented in accordance with directives from the Head of the Institute, ensuring consistency across all branches. **NCC as additional Credit Waiver in R2026, R2022 & R2025 (PG)** Members suggested adhering to the directions provided by the Head of the Institute since they are the same for all branches.

Should be approved in the AC M

22/07/25
BOS Chairman

23/7
Dean/Academics

As discussed

28/7
Dean/Admin

28/7
Principal

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215

ANNEXURE – I	
Board of Studies (BoS) Meeting No. : 28	13.06.2025 (Friday), 09.30 a.m.

LIST OF MEMBERS ATTENDED

S.No.	Name	Designation & Address	Representation	Signature
1.	Dr.A.Murugesan	Professor & Head, Department of Mechanical Engineering, K.S.Rangasamy College of Technology.	Chairman	
2.	Dr. K. Balamurugan	Associate Professor, Department of Mechanical Engineering Government College of Engineering, Erode – 638 316.	University Nominee	
3.	Dr.D.Kesavan	Associate Professor, Mechanical Engineering Indian Institute of Technology Palakkad, Kanjikkode, Palakkad, Kerala. Pin: 678623	Subject Expert	– Attended thro online –
4.	Dr.P.Jeyaraj	Associate Professor, Department of Mechanical Engineering, National Institute of Technology, Surathkal	Subject Expert	—
5.	Mr.Rammohan Krishnan	President Engineering, Chemplast Cuddalore Vinyls Ltd., (Sanmar Group), SIPCOT Industrial Complex Phase II, Semmankuppam, Cuddalore - 607 005	Industry Expert	– Attended thro online –
6.	Dr. R Parameshwaran	Principal, Kongu Engineering College, Perundurai, Erode-638052	Alumni	—
7.	Dr. A. Kumaravel	Principal & Professor K.S.Rangasamy College of Technology.	Member	
8.	Dr.P.S.Sampath	Professor, Department of Mechanical Engineering,K.S.Rangasamy College of Technology.	Member	13/6/25
9.	Dr.S.Gopalakrishnan	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology.	Member	13/6
10.	Dr.K.Mohan	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	13.6.25
11.	Dr.K.Santhanam	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	13/06/25

S.No.	Name	Designation & Address	Representation	Signature
12.	Dr.M.Gnanasekaran	Associate Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
13.	Mr. S. Venkatesan	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
14.	Dr.V.P. Arthanarieswaran	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
15.	Dr.S.Jeyaprakasam	Associate Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
16.	Dr.D.Vasudevan	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
17.	Mr.C.Ramesh	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	
18.	Mr.Shanmugam M	Parent of Prithiv Raj S (73772111130)	Member (Parent)	
19.	Mr. Avinesh G Reg. No. 73772211104	III Year Mechanical Engineering, K.S.Rangasamy College of Technology	Student Member	
20.	Mr. Arunachalam K P Reg. No. 73772211103			
21.	Mr. Abdul Rahman R Reg. No. 73772211103			
22.	Mr. Thilageshwaran P Reg.No. 73772211144			

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215

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

Minutes of Board of Studies Meeting

Department of Mechanical Engineering

16.06.2025

BoS Meeting No.: **28** Meeting Date: **13.06.2025** Venue: **Board room & MS Teams** (https://tinyurl.com/yx5yzkja)

Agenda:

Vision, Mission, PEO, PSO of Mechanical Engineering

Discussion/Suggestion:

Vision, Mission, PEO, PSO of Mechanical Engineering programme were presented and discussed among the members.

Vision: To be a leader in providing skill sets for globally competent Engineers, Researchers, Entrepreneurs and Managers in Mechanical Engineering domain.

Mission:

- To offer quality education through experiential learning using ICT tools and socially –relevant projects.
- To engage Faculty and Students in fundamental, heavy engineering and applied research related to energy, environment and safety concerns.
- To groom students to venture into successful entrepreneurs and managers

Program Educational Objectives (PEOs)

PEO1: **Professional Competency**: Graduates of the programme will adapt to emerging technological challenges with core competence in mechanical engineering domain.

PEO2: **Employability and Entrepreneurship**: Graduate of the programme will exhibit their technical knowledge and skills to secure suitable positions in technological organizations and to become entrepreneurs

PEO3: **Higher Education and Research**: Graduates of the programme will pursue advanced studies in thrust areas of mechanical engineering to carryout scientific and industrial research to meet/satisfy current requirements in respective sectors ethically.

Programme Specific Outcomes (PSOs): Engineering Graduates will be able to:

PSO1: Use modern tools in the design, analysis and manufacturing of mechanical components and systems.

PSO2: Solve multidisciplinary problems in manufacturing and allied industries.

PSO3: Adopt creative and innovative approaches to address real- time industrial challenges

Action to be taken:

It was resolved to continue the above mentioned Vision Mission, PEO and PSO of the Mechanical Engineering programme.

16/7/25

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215

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

Minutes of Board of Studies Meeting

Department of Mechanical Engineering

16.06.2025

S. No.	BoS Meeting No.: **28**			Date:**13.06.2025**	Venue: **Board room & MS Teams**(https://tinyurl.com/yx5yzkja)		
	Agenda	**Name & Nominee**	**Discussion/Suggestion**	**Action to be taken**	**Responsibility**	**Target**	**Rem.**
1.	**Curriculum of UG programmes (R2026)**	Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan Academic Expert	- **Electrical Drives and Control for Mechanical Engineers::** Suggested to rename the course as 'Electrical Drives and Control'	- Based on the suggestion, the course name has been renamed.	EEE Dept.	Immediate	Submitted to Academic Council for approval.
		Dr.K.Balamurugan, University Nominee	- Suggested to include '**Electrical Vehicle Design**' as an elective course under the elective vertical 'Green Energy Technology'.	- As per the suggestion, the Electrical Vehicle Design course was included in the corresponding vertical.	Programme Coordinator/ Module Coordinators	Immediate	
		Dr.K.Balamurugan, University Nominee & Mr.K.Rammohan Industry Expert	- **Manufacturing and Machining Processes:** Suggested to split the course and offer Manufacturing Processes in 3rd semester and Machining Processes in 4th semester as it require more exposure.	- As per the suggestion from the members, the points were considered the curriculum was framed.	Programme Coordinator/ Module Coordinator/ Course Instructor	Immediate	

2.	**Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programme**	Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan Academic Expert	- **60 ME 0P2-Computer Aided Drafting Laboratory**: The exercises in syllabus were too heavy as it was taught in 2 hours. - Suggested to emphasize the topics which are relevant to industry and pre requisite for Computer Aided Machine Drawing Laboratory.	- As per the suggestion, the laboratory exercises have been revised to focus on industry needs and pre-requisite for the Computer Aided Machine Drawing Laboratory in 3rd semester. This revision is effective from academic year 2025-26 onwards.	Programme Coordinator/ Module Coordinator/ Course Instructor	Immediate	Submitted to Academic Council for approval.
		Dr.K.Balamurugan, University Nominee & Mr.K.Rammohan Industry Expert	- **60 ME 406 - Applied Hydraulics and Pneumatics**: In the laboratory component, more number of exercises have been given. Since, it is integrated course, limited time is available to complete all the exercises. - Suggested to have maximum five number of exercises in order to complete as per the time line.	- Based on the suggestion, the laboratory exercises have been revised as per the requirement effective from academic year 2025-26 onwards.	Programme Coordinator/ Module Coordinator/ Course Instructor	Immediate	

2.	**Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programme**	Dr.D.Kesavan Academic Expert & Mr.K.Rammohan Industry Expert	- **60 ME E23- Additive Manufacturing:** - Too many exercises in the laboratory component that was inconvenient to complete it in time. Suggested to reduce the number of exercises in the laboratory component. - Also, insisted to include Design for Additive Manufacturing (DfAM); Metal powder production Techniques; Safety aspects in Additive Manufacturing etc. in the lecture part.	- Based on the input, the lecture contents have been reviewed and revised. - Similarly, the number of exercises in the laboratory have been reduced to 7. This change effective from 2025-26 academic year onwards.	Programme Coordinator/ Module Coordinator/ Course Instructor	Immediate	Submitted to Academic Council for approval.
		Dr.D.Kesavan Academic Expert & Mr.K.Rammohan Industry Expert	- **60 ME 6P3- Design Thinking and Product Development Laboratory:** Course Outcome (CO5) was not assessed. Suggested to assess the CO5 with the right parameter.	- Based- on the input, Assessment Pattern was revised as suggested.	Programme Coordinator/ Module Coordinator/ Course Instructor	Immediate	
		Dr.D.Kesavan Academic Expert & Dr.K.Balamurugan, University Nominee	- **60 ME 7P1- Mechatronics Laboratory**: Repetition of few experiments were found and suggested to include the exercises with PLC, automation studio and LabVIEW software.	- Based on the suggestion, the redundant experiments were removed. PLC, Automation studio and LabVIEW based experiments were included.	Programme Coordinator/ Module Coordinator/ Course Instructor	Immediate	Submitted to Academic Council for approval.

3	**Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026)** **Discussion/Suggestion:** - Proposed curriculum and syllabi for the Honours courses were presented and the suggestions were sought by the BoS Chaiman. Members suggested to offer the courses which emphasize on emerging technologies. The list of courses are as follows: • 60 ME E16 - Reverse Engineering • 60 ME E27 - Optimization Techniques in Design, • 60 ME E37 - Integrated Product Development • 60 ME E47 - Micro and Precision Engineering • 60 ME E57 - Quality Engineering • 60 ME E58 - Surface Engineering Apart from the above courses, the emerging courses such as Artificial Intelligence, Industrial Robotics, 3 D Printing and Sustainable Design, Plant Safety and Plant Life cycle may be offered based on the student interest. **Action Taken:** The curriculum and syllabi of Honours courses presented by the BoS Chairman were discussed in the meeting and submitted to Academic Council for approval.
4	**List of open elective courses offered in 2024-25(EVEN Semester)** The following open elective courses were offered in 2024-25 (EVEN Semester) • 60 ME L01 Direct Digital Manufacturing • 60 ME L06 Power Generation Engineering • 60 ME L07 Green Energy Sources **Discussion/Suggestion:** Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan, Academic Expert, suggested to offer interdisciplinary courses focussing on skill development and placement. **List of open elective courses planned to offer in 2025-26 (ODD semester)** **Action Taken:** Based on the discussion, the members approved to offer the following open elective courses in 2025-26 (ODD semester) • 60 ME L01 Direct Digital Manufacturing • 60 ME L02 Product Design and Development • 60 ME L03 Composite Materials and Processing It.is resolved to submit the syllabi to Academic Council for further approval.

	List of value-added courses offered in 2024-25(EVEN Semester) and planned to offer in 2025-26 (ODD semester) The following value added course was offered in 2024-25 (EVEN Semester) • Siemens NX CAD for Mechanical Design Engineers **Discussion/Suggestion:** Dr.K.Balamurugan, University Nominee & Mr.K.Rammohan, Industry Expert suggested to offer industry related value added courses to suit the current requirements. **Action Taken**: It is proposed to offer the following value added courses from 2025-26 ODD Semester • MATLAB • Solid Works 2022/CATIA V5 R20 It is resolved to submit the proposal to Academic Council for further approval.
5	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R2026)** **I. Total No. of credits for the UG programme** **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan, Academic Expert and other members have gone through the proposed curriculum of Mechanical Engineering (UG) under Regulation R 2026. **Action Taken**: - As per the discussions, it is resolved to continue with **163** credits for B.E Mechanical Engineering in R2026 and submitted to Academic Council for approval.
	II.Curriculum for I to VIII semester Courses (R2026) and Recommendations - Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan, Academic Expert appreciated that the R2026 curriculum of the Mechanical Engineering programme will meet the requirements to pursue higher education & carrier guidance and startups & entrepreneurship as well.
	III. Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs). - Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan, Academic Expert appreciated that the proposed R 2026 curriculum will focus on current trends in Mechanical Engineering which will be useful for placement, higher studies and entrepreneurship.
	IV. Curriculum meeting the requirements of NEP 2020. **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee, Dr.D.Kesavan, Academic Expert and other members recommended to continue with existing system for elective courses/open elective course selection, project selection and internship.

5	**V. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills.** **Discussion/Suggestion:** Members suggested that the proposed curriculum R 2026 will enrich innovative, design & critical thinking skills and problem solving abilities of students.
	VI. Incorporation of Virtual Laboratory &Industry sponsored/supported courses and laboratories **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan, Academic Expert suggested to continue with virtual laboratory contents available in web platform of premier institute. It is resolved to submit the proposal for the approval in Academic Council.
	VII. Introduction of new courses **Discussion/Suggestion:** - Members suggested to focus on current trends in Mechanical Engineering which will be useful for placement, higher studies and entrepreneurship. **Action Taken:** - Based on the suggestion from the members and focused on the latest technology in Mechanical Engineering following new courses are introduced in R2026 for betterment of placement, higher studies and entrepreneurship. 1. Computer Programming in Python 2. Python Programming Laboratory 3. Value Engineering 4. Product Life Cycle Management 5. Integrated Product Design and Manufacturing using GD&T 6. Sensors and Instrumentation 7. Digital Manufacturing and IoT 8. Drone Technologies 9. Mechatronics and IoT 10. Green Supply Chain Management 11. Technologies for Clean and Renewable Energy Production 12. Waste to Energy Conversion Technologies 13. Green Hydrogen Production Storage and Transportation 14. Programmable Logic Controllers 15. Manufacturing Information System

	16. Fatigue Analysis 17. Bio-fuel Technology 18. Energy Conservation and Auditing 19. Design of Pressure Vessels 20. Vibration and Acoustics It is resolved to submit the proposal to Academic Council for approval.
6	**Discussion on Choice Based Credit System** **I. Self-study courses SWAYAM/ NPTEL/MOOC courses offered in 2024-25 (EVEN Sem) and planned to offer in 2025-26 (ODD Sem)** **Discussion/Suggestion:** - Dr.K.Balamurugan, University Nominee, Dr.D.Kesavan, Academic Expertsuggested to offer self-study courses from 3rdsemester onwards with one course per semester. - The following courses were completed by both faculty and students under NPTEL during 2024-25 (ODD semester) - Enhancing Soft Skills and Personality - Principles Of Industrial Engineering - Product Design and Manufacturing - Waste to Energy Conversion - In line with curriculum of R 2022, student can opt for the NPTEL and ICT academy courses based upon the industry needs. It is resolved to submit for the approval in Academic Council.
	II. One credit course offered in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester) The following value added courses were offered in 2024-25 (EVEN Semester) • Welding Design codes and Testing **Discussion/Suggestion:** Mr.K.Rammohan, Industry Expert and Dr.K.Balamurugan, University Nominee suggested to offer one credit courses from 4th semester onwards that to one course per semester. **Action Taken**: We are planning to conduct the following one credit courses in 2025-26 (ODD semester) • Emerging Trends in Welding Technology • Welding Metallurgy The knowledge of industry person is effectively utilized to enrich the skill of students in order to promote employability. The one credit courses are submitted to Academic Council for further approval.

6	**III. Skill based courses offered in2024-25(EVEN semester) and planned to offer 2025-26 (ODD Semester)** **Discussion/Suggestion:** Members suggested to offer the skill based courses that will improve the technical skill of the students. The following skill based courses were planned to offer in 2025-26 (ODD semester) • Non -Destructive Testing / GD & T **Action Taken**: The list of courses are submitted to Academic Council for further approval.
	IV. International Certification completed in 2024-25 (EVEN semester) and identification of certifications for the forthcoming semesters. **Discussion/Suggestion:** Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan, Academic Expert insisted to motivate the students to participate in the certification courses. The international certified course titled 'Generative Design for Additive Manufacturing' is identified and planned to offer in the forthcoming semester. Submitted for the approval in Academic Council.
	V. Rollout of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities. **Discussion/Suggestion:** Dr.K.Balamurugan, University Nominee & Dr.D.Kesavan, Academic Expert, Mr.Rammohan Krishnan industry expert insisted to motivate the students to participate the more number of hackathon, design contests and Ideathon etc. to improve the knowledge and skill development which could be useful for placement activities and higher studies. Submitted for the approval in Academic Council.
	VI. Evaluation pattern for Integrated courses, Project based &System based courses **Discussion/Suggestion:** As per the suggestion, it is decided to proceed with existing process for evaluation pattern for integrated courses. Submitted for the approval in Academic Council.
	VII. Internship details of students (2nd,3rd&4thYear) BoS members suggested to undergo internship from 3rd semester onwards offered by core companies during summer and winter vacations. 86 final year students were completed the internship during 2024-25 academic year. Submitted for the approval in Academic Council.

7	**Stake holders feedback and action taken** **Discussion/Suggestion:** The following stake holders (Employer, Alumni, Faculty and Students) have given the feedback related to curriculum design and development. - Mr.Balashankar.V (Alumni), Assistant Manager, Wabtec Corporation suggested to include the hands-on skills in the workplace. Incorporating labs, mini-projects, or reverse engineering activities would help students connect theory to real-world components. - Deepak M, (Alumni) Engineer, Research and Development, RP3D Products Private Limited, Chennai, suggested to reduce complexity which could help students to focus more effectively on the core concepts since current lab exercise is quite extensive and time-consuming. - Mr.Obuliraj, Production Shift Incharge, Exide Industries Limited, suggested to focus on Inclusion of Industry 4.0: courses like IoT in Manufacturing, Smart Factories, Automation, and Data Analytics for Production may be introduced. Emphasis on Practical Skills: More hands-on training through internships, industry projects, simulation software (like AutoCAD, SolidWorks, ANSYS), and CNC programming would be beneficial. Emerging Technologies: Modules on Electric Vehicles, Renewable Energy Systems, and Additive Manufacturing (3D Printing) could be added. Soft Skills and Project Management: Incorporating training on Communication Skills, Teamwork, and Basics of Project Management would prepare students for leadership roles. - Mr.Prabhu Dharmarajan(Employer), Origin CADD Infotech Coimbatore, suggested to separate the contents as CAD for 2D drawing generation and CAD for 3D modelling. Also insisted to include some simulation packages like casting simulation. - Mr.Ragunathan R, (Employer), Business Head, Institute of Industrial Design, Salem, Suggested to integrate 'Design Thinking and Innovation' as a minor module in Design of Machine Elements course can foster creative problem-solving, user-centric design, and sustainable product development, aligning with SDG goals. Also, he insisted that expanding the current coverage of bearings into a specialized segment on Tribology and Surface Engineering can offer deeper insights into friction, wear, lubrication, and surface treatments that impact component longevity and efficiency. - Mr.Santhosh Kumar K R, (Employer), Manager – Talent Acquisition, Macbro Technology India Pvt Ltd., Erode, Suggested to encourage students to pursue certification courses on platforms like NPTEL, Coursera, or edX in CAD/CAE, mechanical system design, or product lifecycle management can enrich their profiles with industry-recognized credentials. **Action Taken:** - Based on the suggestion from stake holder, the contents of course were revised and submitted to Academic Council for further approval.
8	**Any other matters** **Suggestion on Examination Reforms (Question Paper Reforms - Internal and End Semester Examination)** - Examination pattern can be followed as per the directions from the Head of the Institute since it is common for all the branches. **Suggestion to evaluate project based courses** - Suggested to offer Project based courses with assessment as 30% internal + 70% external (i.e Internal - Poster design and concept of development and External – Semester end examination with final product).

BoS Chairman **Dean/Academics** **Dean/Admin** **Principal**

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Board of Studies Members (as per UGC Recommendations)

Period: 2024-2025

Name of the Board : Mechatronics Engineering
Programme : UG – B.E Mechatronics Engineering
: PG – M.E Industrial Safety Engineering
Venue : Homi. J.Bhabha Hall, Aditya Block Date: 13-06-2025

S. No.	Name	Designation as per UGC	Designation / Affiliation with full contact details	Signature
1.	Dr.S.S.Saravanakumar	Chairman	Professor & Head Department of Mechatronics Engineering K.S.Rangasamy College of Technology Tiruchengode-637215, Namakkal District Mail ID: hodmct@ksrct.ac.in Mobile No: 9943442987	
2.	Dr. K. Balamurugan	University Nomine	Associate Professor, Department of Mechanical Engineering, Government College of Engineering (IRTT), Erode - 638 316. Mail ID : drkbalamurugan@gmail.com Mobile No. : 91501 66322	
3.	Dr.P.Ravichandran	Subject Expert	Professor, Department of Mechatronics Engineering, Kongu Engineering College, Perundurai, Erode-638060 Mail ID : ravichandran@kongu.ac.in Mobile No. : 9965998989	
4.	Dr M.Bharathiraja	Subject Expert	Professor, Department of Mechatronics Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode-638 401 Mail ID : bharathiraja@bitsathy.ac.in Mobile No. : 9965175377	
5.	Dr.S.P.Sivaprakasam	Subject Expert	Professor & Head, Dept. of Mechanical Engineering, National Institute of Technology, Trichy – 620 015 Mail ID : spshivam@nitt.edu Mobile No. : 9944547215	ON LINE MODE
6.	Mr.S.Karthikeyan	Industry Expert	Technical Head, Technical Manager (IoT and Semi-Conductor), eDigiM Research Private Limited, Poonamallle, Chennai – 600056 Mail ID : karthikeyan@edigim.com Mobile No. : 8608501021	ON LINE MODE
7.	Mr. K. Akash	Alumni (UG – MCT)	Maintenance Engineer Forvia Clean Mobility India Pvt, Ltd 449A, Pondur Village, Kanchipuram District – 602105 Mail ID: aakash.kirupanantham.akm@forvia.com Mobile No. : 7530040449	–
8.	Dr. K. Prabu	Subject Expert	Associate Professor, Department of Automotive Engineering, Vellore Institute of Technology, Vellore-632014 Mail ID : prabu.k@vit.ac.in Mobile No. : 9566643330	–

S. No.	Name	Designation as per UGC	Designation / Affiliation with full contact details	Signature
9.	Dr. A. Ramesh Kumar BoS Coordinator (UG - MCT)	Member	Associate Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : rameshkumar@ksrct.ac.in Mobile No. : 9390063776	
10.	Mrs.V.Indumathi BoS Coordinator (PG - ISE)	Member	Assistant Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : indumathi@ksrct.ac.in Mobile No. : 9965137001	
11.	Dr.N.Tiruvenkadam	Member	Professor Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID: tiruvenkadam@ksrct.ac.in Mobile No: 9944672671	
12.	Dr.C.Vijayakumar	Member	Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : vijayakumarc@ksrct.ac.in Mobile No. : 6379112939	—
13.	Dr. M.Sasikumar	Member	Associate Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : sasikumarm@ksrct.ac.in Mobile No. : 9965167985	—
14.	Dr.R.Senthilmurugan	Member	Associate Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : senthilmurugan@ksrct.ac.in Mobile No. : 9843488996	
15.	Dr. M. Baskaran	Member	Associate Professor, Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215. Mail ID : baskaranm@ksrct.ac.in Mobile No. : 9698999756	—
16.	Deva S (Reg.No. 73772215109)	Student Member (IV Year)	Department of Mechatronics Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215	

BoS Chairman 20/6/25

CHAIRMAN
Board Of Studies/
Mechatronics Engineering

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Board of Studies Members (as per UGC Recommendations)

Period: 2024-2025

Name of the Board : Mechatronics Engineering
Programme : UG - B.E Mechatronics Engineering
: PG - M.E Industrial Safety Engineering
Venue : Homi. J.Bhabha Hall, Aditya Block

Date:20.06.2025

S. No.	Name	Designation as per UGC	Designation / Affiliation with full contact details	e-Sign
1.	Dr. K. Balamurugan	University Nominee	Associate Professor, Department of Mechanical Engineering, Government College of Engineering (IRTT), Erode - 638 316. Mail ID : drkbalamurugan@gmail.com Mobile No. : 91501 66322	07/20/25, 9:31:26 AM
2.	Dr.S.P.Sivaprakasam	Subject Expert	Professor & Head, Dept. of Mechanical Engineering, National Institute of Technology, Trichy – 620 015 Mail ID : spshivam@nitt.edu Mobile No. : 9944547215	07/20/25, 9:32:23 AM
3.	Mr.S.Karthikeyan	Industry Expert	Technical Head, IobiT Solutions, Bengaluru – 560059 Mail ID : karthikeyansingaram@iobit.in Mobile No. : 8608501021	07/20/25, 9:32:46 AM

20/6/25

BoS Chairman

CHAIRMAN
Board Of Studies/
Mechatronics Engineering

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of the Board of Studies Meeting

Department of Mechatronics Engineering

(UG-MECHATRONICS ENGINEERING & PG-INDUSTRIAL SAFETY ENGINEERING)

BoS Meeting No. 28		**Date: 20.06.2025**		**Venue: Homi.J Bhabha Hall, Aditya Block**

The 28th Board of Studies Meeting of the Department of Mechatronics Engineering was held in hybrid mode on 20.06.2025. The Chairman, BoS of Mechatronics Engineering welcomed and introduced the members of 27th Board of Studies and presented the Regulation 2026 curriculum for the B.E. Mechatronics Engineering program and the Regulation 2025 curriculum and syllabi for the M.E. Industrial Safety Engineering program to the University Nominee and other subject experts of the Board of Studies.

Agenda:
Vision, Mission, PEO, PSOs of Mechatronics Engineering Programme

Discussions/Suggestions:
Vision, Mission, PEOs, PSOs of Mechatronics Engineering programme were presented and discussed among the members

Vision:
To become a pioneer in producing competent Mechatronics Engineers, researchers and entrepreneurs through quality education

Mission:
- To produce competent and ethically bound Mechatronics professionals by imparting the technical knowledge and skills through quality teaching learning process
- To build an environment that is favourable for employability skills through collaborations with academia and industry
- To groom the students to focus on higher studies, research, entrepreneurship and be committed to the societal welfare and quality of life by creating an effective ecosystem

Program Educational Objectives (PEOs)
PEO1: Core competencies: Our graduates apply engineering knowledge to solve problems in Mechatronics and relevant fields.
PEO2: Employability: Our graduates demonstrate technical and professional skills to ethically address the industrial and societal needs.
PEO3: Higher Studies, Research and Entrepreneurship: Our graduates pursue higher studies, research and entrepreneurship in diverse fields.

Programme Specific Outcomes (PSOs):
Engineering Graduates will be able to:
PSO1: Specify, design and develop automation systems for the given engineering applications.
PSO2: Design and evaluate mechatronic systems using the state-of-the-art equipment and software tools.

Action to be taken:
The BoS members resolved to continue with the existing Vision, Mission, PEOs, and PSOs of the Mechatronics Engineering Programme

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
1.	Curriculum of UG programme (R2026)	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert) Dr.P.Ravichandran (Subject Expert) Dr.S.P. Sivapirakasam (Subject Expert) Mr. K. Akash (Alumni)	1. The C Programming Theory and Laboratory courses scheduled for the second semester shall be exclusively offered to Lateral Entry students. 2. Incorporating SWOT Analysis into the Career Skill Development course is recommended to enhance students' self-assessment abilities and strategic planning competencies. 3. Python Programming should be included as a core course, as it serves as a prerequisite for the Artificial Intelligence and Machine Learning course in the sixth semester. Moreover, it is essential for Mechatronics Engineering students to gain proficiency in Python. 4. Automobile Engineering should be incorporated into the curriculum either as a core course or as a professional elective to provide students with a deeper understanding necessary for implementing automation in the automotive sector	1. The C Programming Theory and Laboratory courses shall be scheduled and delivered as part of the bridge course specifically designed for Lateral Entry students. 2. The topic of SWOT Analysis has been incorporated into the Career Skill Development course to enhance students' self-evaluation and planning capabilities. 3. The Python Programming for Mechatronics course has been introduced as a core course in the fifth semester, offered in a Theory-cum-Practical format. 4. The Automobile Engineering course has been included in the curriculum as a Professional Elective.	BoS Chairman & Module Coordinator	The necessary corrections are carried out in R2026 Curriculum	Submitted to Academic Council for further Approval
2.	Curriculum and syllabi of R2025 (PG)	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert)	1. Transport Safety can be replaced with Risk Analysis 2. Powder Safety can be replaced with Regulation for health and safety	1. Transport Safety is replaced with Risk Analysis 2. Powder Safety is replaced with Regulation for health and safety	BoS Chairman & Module Coordinator	The necessary corrections are carried out in R2025 Curriculum	Submitted to Academic Council for further Approval

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
		Dr.P.Ravichandran (Subject Expert) Dr.S.P. Sivapirakasam (Subject Expert) Mr. K. Akash (Alumni)	3. Safety in construction can be replaced with Electrical Safety 4.In Statistics for Safety Subject, applications and case study can be added 5.In IIIrd Semester Environmental Safety and control can be given as a regular Paper instead of Elective Subject	3. Electrical Safety is given as an Elective Paper Applications and case study will be included in the Syllabus. Environmental Safety and control Subject is shifted to IIIrd Semester.			
3.	Revision in the Curriculum and Syllabi of I to VIII semester (R2022) of UG Programmes.	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert) Dr.P.Ravichandran (Subject Expert) Dr.S.P.Sivapirakasam (Subject Expert) Mr. Mr. S. Karthikeyan (Industry Expert) Mr. K. Akash (Alumni)	IoT based pneumatic circuit experiment may be replaced with Electro-Pneumatic Circuit The 10 number of experiments in the integrated course may be reduced to 5 experiments	The experiment is to be replaced with the Execution of Electro-Pneumatic Circuit Experiment The 10 numbers of experiments in Sensors and Instrumentation is reduced to 5 numbers of experiments	BoS Chairman & Module Coordinator	It is decided to proceed with same curriculum and syllabi	Submitted to Academic Council for further Approval
4.	Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026)	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert) Dr.P.Ravichandran (Subject Expert) Dr.S.P.Sivapirakasam (Subject Expert) Mr. Mr. S. Karthikeyan	The curriculum and syllabi of the Honour Degree in Robotics and Automation were reviewed, and it was resolved that no modifications are required in the existing structure. The R2022 Honour Degree in Robotics and Automation is currently offered with the following courses:	As per the recommendations of the of BoS committee members, proceed with this resolved to the same syllabi	BoS Chairman	It is decided to proceed with same curriculum and syllabi	Submitted to Academic Council for further Approval

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
		(Industry Expert) Mr. K. Akash (Alumni)	60MC E17 – Medical Robotics 60MC E18 – AI for Robotics 60MC E27 – Robot Kinematics and Dynamics 60MC E37 – Applied and Industrial Robotics 60MC E47 – Robotic Programming 60MC E48 – Sensors and Machine Vision Systems The proposed courses for the R2026 Honour Degree in Robotics and Automation are as follows: 70MC H01 – Kinematics and Dynamics for Mobile Robots 70MC H02 – Automation in Renewable Energy Systems 70MC H03 – Autonomous Aerial Robotics 70MC H04 – Robot Ethics and Safety Systems 70MC H05 – Robotics for Surgical and Biomedical Applications 70MC H06 – Sustainable and Green Automation Technologies				
5.	List of open elective courses and value-added courses offered in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester)	Dr. K. Balamurugan (University Nominee) Dr.M.Bharathiraja (Subject Expert) Dr.P.Ravichandran (Subject Expert) Dr.S.P.Sivapirakasam (Subject Expert) Mr. Mr. S. Karthikeyan (Industry Expert)	Open Elective offered in 2024-2025 (EVEN Semester) are - 60 MC L04 - Introduction to Occupational Health - 60 MC L05 - Digital Transformation in Manufacturing. Open Elective to be offered in 2025-2026 (ODD Semester) is - 60 MC L06 - Safety and Risk Analytics Open Elective syllabi was discussed and the same was	As per the recommendations for the open elective courses by the BoS committee members, proceed with this resolved to the same syllabi	BoS Chairman	It is decided to proceed with same syllabi	Submitted to Academic Council for further Approval

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
			approved by Bos Experts In AY:2024-2025 (EVEN Semester) value-added courses are not offered In AY:2025-2026 (ODD Semester) value-added course planned to offer is MAT Lab				
6.	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025)	i. Total No. of credits for the UG programme R2026 - 164 ii. Curriculum for I to VIII semester UG Courses (R2026) and Recommendations - Presented by BoS Chairman and Same was approved by BoS experts iii. Curriculum for I to IV semester PG Courses (R2025) and Recommendations - Presented by BoS Chairman and Same was approved by BoS experts iv. Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs) - Presented by BoS Chairman, R 2026 Curriculum shall meet the requirements as per the guidelines of AICTE v. Curriculum meeting the requirements of NEP 2020 - Presented by BoS Chairman, R 2026 Curriculum shall meet the requirements as per the requirements of NEP 2020 vi. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills – R 2026 Curriculum was framed by incorporating all the above vii. Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories - Presented by BoS Chairman and Same was approved by BoS experts viii. Introduction of new courses - around 18 new courses is presented by BoS Chairman As per the discussions, it is resolved to continue with 164 credits for B.E. Mechatronics Engineering in R2026 and submitted to Academic Council for further approval				
7.	Discussion on Choice Based Credit System	I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (EVEN Semester) are Principles of Hydraulic Machines and System Design (64), Intelligent Feedback and Control (46) and Advanced Machining Processes (30). Also it is planned to offer in ODD Semester of 2025-26 - Based on the student's interest as well as in line with their course pertaining to study, UG & PG students may enroll the SWAYAM / NPTEL / MOOC courses II. ONE Credit course offered in 2024-25 (EVEN Semester) - Nil and planned to offer by industry in 2025-26 (ODD Semester) **One Credit Course** - Planned to offer course (ODD Semester) on topic **"Digital Twin Technology"** and MOU was Signed with PRAYA LABS, Tiruvanamalai III. Skill based courses offered in 2024-25 (EVEN semester) – Solid Works and planned to offer 2025-26 (ODD Semester) – MATLAB IV. International Certification completed in 2024-25 with credits – Nil, The Members suggested to motivate the students to enrol for International Certification and enjoy their learning V. Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc. VI. Evaluation & course outcome plan for integrated courses, Project Based & System Based Courses VII. Internship details of students (2nd, 3rd & 4th Year). In 2022-26 Batch (3rd Year) - 46 students were completed the 2 week internship. As per the discussions, it is resolved to submit the proposal to Academic Council for further approval				

S. No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
8.	Stake holders feedback and action taken	Mr. T. Kumar, Lead Mechanical Engineer, KK Wind Solutions (P) Limited, Bengaluru suggested that in the R2022, 61 MC 404- Hydraulic and Pneumatic Control Course, IoT based pneumatic circuit experiment may be replaced with Electro-Pneumatic Circuit Experiment. Mr. P. Dinesh Babu, Associate Professor, School of Mechanical Engineering, SASTRA Deemed University suggested that in the R2022, 61 MC 302 Sensors and Instrumentation course, the 10 number of experiments in the integrated course may be reduced to 5 experiments Action Taken: The above-mentioned stakeholder suggestion has been incorporated into the courses 61MC 404 – Hydraulic and Pneumatic Control and 61MC 302 – Sensors and Instrumentation, and the revised content has been submitted to the Academic Council for further approval.				
9.	Suggestions from IQAC	Value Added Courses focusing on women's empowerment i) Women Health & Human Rights through Coursera ii) Gender Equality through Inclusive Design through Coursera iii) Gender Equality and Women Empowerment through Udemy **Minor Degree**: a) Offering a minor degree in Machine Learning, Data Science and Artificial Intelligence to students of non-circuit branches like Mechatronics Engineering,					
10.	Any other matters	Examination pattern can be followed as per the directions from the Head of Institute, since it is common for all the branches NCC as additional Credit Waiver in R2022 is discussed with BoS experts and the same was approved by BoS members and submitted to Academic Council for further approval					

BoS Chairman 6/7/25

Dean - Academics

Dean - Admin 30/07

Principal 30/7/25

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215
(An Autonomous Institution, Affiliated to Anna University Chennai)

Department of Electrical and Electronics Engineering

28th BOS Meeting Attendance

Date: 11.06.2025

S. No	Name	Representation	Signature
1.	Dr.G.Vijaya Gowri	Chairman, Professor & Head, Department of EEE, K.S.Rangasamy College of Technology Tiruchengode-637215 Namakkal District Tamil Nadu Mail ID : hodeee@ksrct.ac.in Mobile No: 9080581485	
2.	Dr. V. Sankaranarayanan	University Nominee, Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli – 620 015 Mail ID: vsankar@nitt.edu Mobile No: 94876 27002	
3.	Dr. S.Thangavel	External Subject Expert, Dean (Academics), Professor, Department of EEE, NIT, Thiruvettakudi, Karaikal, Puducherry – 609 609 Mail ID: Thangavel.s@nitpy.ac.in Mobile No:9443676688	11.6.2025
4.	Dr. N. P. Subramaniam	External Subject Expert, Associate Professor, Department of EEE, Puducherry Technological University, Puducherry Mail ID: npsubbu@ptuniv.edu.in Mobile No:9486441444	N.P. 11/6/25
5.	Dr. K. Udhayakumar	Alumni, Professor, Department of EEE, Anna University, Chennai E-Mail: k_udhayakumar@annauniv.edu Mobile: 9940356662	11/06/25.
6.	Er. Kalaiyarasan K	Industry Expert, Lead Commissioning Engineer, H&MV Engineering Company, Bangalore, Mail ID: k.kalaiyarasan@gmail.com, Mobile No: 9791915762	11.06.2025
7.	Dr.M.K.Elango	BoS Coordinator, Professor, Department of EEE E-Mail: elango@ksrct.ac.in Mobile: 9952493666	11/6/25

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215
(An Autonomous Institution, Affiliated to Anna University Chennai)

Department of Electrical and Electronics Engineering

28th BOS Meeting Attendance

Date: 11.06.2025

S. No	Name	Representation	Signature
8.	Dr.T.Venkatesan	Module Coordinator, Professor, Department of EEE E-Mail: venkatesan@ksrct.ac.in Mobile: 9942012455	T. V 11/6/25
9.	Dr.R.Balamurugan	Module Coordinator, Associate Professor, Department of EEE E-Mail: balamurugan@ksrct.ac.in Mobile: 9790031900	11/6/2025
10.	Dr.D.Sri Vidhya	Module Coordinator, Associate Professor, Department of EEE E-Mail: srividhya@ksrct.ac.in Mobile: 9952134279	11/6/25
11.	Ms.N.Kayalvizhi	Assistant Professor, Department of EEE E-Mail: kayalvizhi@ksrct.ac.in Mobile: 9994547837	11.6.25
12.	Mr.N.Rajasekaran	Assistant Professor, Department of EEE E-Mail: rajasekaran.n@ksrct.ac.in Mobile: 8056975723	11/6/25
13.	Ms.S.Jaividhya	Assistant Professor, Department of EEE E-Mail: jaividhya@ksrct.ac.in Mobile: 9585304763	11/6/25
14.	M. Anhu Keerthana	Student, 73772212102, III Year EEE, K.S.Rangasamy College of Technology, Mobile:9790263159	M. Anhu Keerthana 11/06/25
15.	C. Tivith	Student, 73772212154, III Year EEE, K.S.Rangasamy College of Technology, Mobile: 9345426277	Tivith.C 11/06/2025
16.	R.Sowmitha	Student, 2303737710522061, II Year EEE, K.S.Rangasamy College of Technology, Mobile: 8270479544	11/6/25

BoS Chairman

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215

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

Minutes of the Board of Studies Meeting

Department of Electrical and Electronics Engineering (UG & PG)

	BoS Meeting No: 28			Date: 11.06.2025		Venue: HoD Chamber, Dept of EEE	
S. No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum of UG Programme (R2026)**	Dr. V. Sankaranarayanan University Nominee	Draft Curriculum of R2026 were presented and the following changes to be made based on the suggestion given by members **Suggestion given:** i. Electrical Machine Design Course may be changed from IV Sem to V Semester ii. Measurements and Virtual Instrumentation and Control and Virtual Instrumentation Laboratory courses name may be changed to Measurements and Instrumentation and Control and Instrumentation Laboratory and module/experiments on Virtual Instrumentation may be included	Suggestions are accepted and changes will be incorporated	BoS Chairman	May 2026	Will be submitted for the approval of Academic Council after finalization
		Dr. S. Thangavel Subject Expert	Electric Circuit Analysis course content is quite heavy, and hence revision such that the course delivery could be done within the stipulated duration is required.	Syllabus will be revised and presented for confirmation	BoS Chairman	May 2026	Will be submitted for the approval of Academic Council
		Dr. K. Udhayakumar Alumni	i. Foundational English I and II course name may be changed as decided by the S&H BoS members ii. Electrical Machines – I and Electrical Machines – II course names may be changed to DC Machines and Transformer and AC Machines and Special Electrical Machines respectively iii. Embedded Systems may be changed as Embedded System Design	Suggestions are accepted and changes will be incorporated	BoS Chairman	-	

		Dr. N. P. Subramaniam Subject Expert	Basic Electrical and Electronics Engineering Laboratory course ECE is heavy. Few experiments may be removed. Smart Energy Meter may be included. Engineering Drawing may be offered for Electrical Students	Suggestions are accepted and changes will be incorporated	BoS Chairman	May 2026	
2.	**Revision in the Curriculum and Syllabi of I to VIII semester (R2022) of UG Programmes**	Dr. S. Thangavel Subject Expert Er. K. Kalaiyarasan Industry Expert Dr. K. Udhayakumar Alumni Dr. V. Sankaranarayanan University Nominee Dr. N. P. Subramaniam Subject Expert	Based on the recommendation of DAB meeting, revision in the following course syllabus has been discussed. 60EE4P1 – Electrical Machines II Laboratory: Speed Control of V/F Method may be removed in the course as detailed speed control techniques will be taught in Power Electronics and Drives Laboratory Course 60 EE L04 – Sensor Technology syllabus is revised with hands on practice on LED Control using Arduino using Simulink, Ultrasonic Sensor for Object Detection using MATLAB, IoT Integration with ThingSpeak 60 EE 7P1 - Electrical System Design syllabus is modified with a count of 10 experiments 60 EE 703 – Embedded Systems has been modified with the experiment count for integrated course	All members agreed the same and recommended	Module Coordinators and BoS Chairman	June 15, 2026	Submitted for the approval of Academic Council
3.	**Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026)** The proposed Curriculum and Syllabi for Honour / Minor Degree programmes (R2022 & R2026) were presented by BoS Chairman. **Suggestions:** Students can opt any 6 additional Courses (Elective courses and Self-learning courses) for a total credit of 18 in R2022 and R2026 for Honor and Minor Degree. **Action taken** The proposed courses and syllabi for the Honour Degree programmes (R2022) and the elective courses for the Honour Degree programmes (R2026) were presented and passed in the meeting. It is also submitted for approval in the Academic Council meeting.						

4.	**List of open elective courses and value-added courses offered in 2024-2025 (Even Semester) and planned to offer in 2025-2026 (Odd Semester)** **Open Electives offered:** 1. 60EEL03 – Electric Vehicle Technology 2. 60EEL02 - Graphical System Interface Using LABView **Open Elective planned to offer:** 1. 60EEL04 – Sensor Technology **Value added courses offered: Nil** **Vale added courses planned to offer:** 1. Fundamentals of MATLAB 2. Basics of Arduino Dr. K. Udayakumar suggested that, in addition with the above value-added course, the following courses also may be planned, such as Corporate Social Responsibility, Corporate Governance, Work Ethics, Technical/Engg Law, Labour Law, Cyber Law, Sustainability in Engineering Product Development, Electrical Safety. **Action taken** Dr. V Sankaranarayanan, (University Nominee) Dr. S. Thangavel (Subject Expert) & Er.K. Kalaiyarasan (Industry Expert) suggested to plan for few courses which enhances the skill set of the students in addition to the listed value added courses and few other courses in R2026 may be included as open elective based on the requirements of all other departments. The suggestions will be accepted with the approval of the Academic Council.
5	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026)**
I.	**Total No. of credits for the UG programme** Total No. of credits for the UG programme is 164 BoS Committee approved and submitted to academic council for further approval
II	**Curriculum for I to VIII semester Courses (R2026) and Recommendations/Suggestions by Members:** While integrating practical component with theory, both practical and theory part may be given equal weightage. In addition, members appreciated that the curriculum framed meets out the syllabus for GATE examination and the courses are so planned to include either practical component integrated course or a separate practical course with optimum credits. **Action Taken** The suggestions from the BoS members will be submitted to the Academic council after finalization of the curriculum and syllabi.
III	**Curriculum and syllabi to support progression to higher education, career guidance, startups & entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs).** Dr. V Sankaranarayanan, (University Nominee) Dr. K. Udhayakumar (Subject Expert) & Dr.N.P. Subramaniam (Subject Expert) appreciated that, the Curriculum and Syllabus support the progression to higher education, career guidance, startups; entrepreneurship; cross cutting issues and Sustainable Development Goals (SDGs).
IV	**Curriculum meeting the requirements of NEP 2020** External Members recommended the Open Electives, Language Electives, Minor/Honor Degree, NPTEL Course and NSS/NCC waiving & Additional Credits of R2022. It is submitted to the Academic Council for approval.
V	**Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills** Dr. K. Udhayakumar (Subject Expert), Dr.N.P. Subramaniam (Subject Expert), Dr. V Sankaranarayanan, (University Nominee) appreciated that the Department Curriculum and Syllabus supports the student involvement in innovative, design, critical thinking abilities and their problem-solving skills. BoS Committee approved the same and it is submitted to the Academic Council for approval.

VI	**Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories.** The following courses are identified for virtual laboratory for teaching learning process. • Electric Circuit Analysis – IIT Kharagpur • Analog Circuits and Systems – IIT Roorkee • Electrical Machines – I – IIT Guwahati • Electrical Machines – II – IIT Guwahati BoS Committee approved and submitted to academic council for further approval
VII	**Introduction of new courses** • AI Courses may be included in Elective • Deep Learning Courses and Machine Learning Courses may be given as Elective BoS Committee approved and will be submitted to academic council for approval after further discussions
7.	**Discussion on Choice Based Credit System**
I	**Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Even Semester) and planned to offer in 2025-26 (Odd Semester)** **NPTEL Courses Completed in 2024 -25 Even Semester:** 1. Introduction To Industry 4.0 And Industrial Internet of Things 2. Introduction To Internet of Things 3. Cloud Computing **NPTEL Courses planned in 2025 -26 Odd Semester:** 1. Introduction to Internet of Things 2. Microsensors and Nanosensors 3. Introduction to Industry 4.0 and Industrial Internet of Things 4. Semiconductor Devices and Circuits 5. Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software 6. Control and Tuning Methods in Switched Mode Power Converters All BoS members suggested that the students can learn any of the above listed courses based on their choice. The list is submitted for the approval of the Academic Council.
II	**One credit course offered in 2024-2025 (Even Semester) and planned to offer in 2025-26 (Odd Semester)** **One credit course offered in 24-25 Even semester:** 1. 60EESE03 – Electrical Designing, Commissioning and Auditing Using ECAD 2. 60EESE04 – Electrical Schematic Design and Advanced Techniques using ECAD **One credit course Planned to offer in 25-26 Odd semester** 1. PLC and Automation 2. Revit MEP Dr. N.P. Subramaniam (Subject Expert), Er.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) approved the one credit course to be offered in odd semester and suggested to offer a course on PLC and Automation. The suggestions are submitted for the further approval of the Academic Council.
III	**Skill based courses offered in 2024-25(Even semester) and planned to offer 2025-26 (Odd Semester)** **Skill Based courses offered in 2024-25 Even Semester:** 1. Universal Human Values **Skill Based courses planned to be offered in 2025-26 Odd Semester:** 1. Yoga Er.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) insisted the importance of yoga for the current generation students and suggested to offer to all students and it is submitted for the Academic Council for further approval.

IV	**International Certification completed in 2024-25 (Even semester) and identification of certifications for the forthcoming semesters** International Certification courses are not yet completed by any students. Students may take the international certifications in the forthcoming semester. Dr. V Sankaranarayanan, (University Nominee) Dr. N.P. Subramaniam (Subject Expert), Er.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) suggested to motivate the students to do CLAD Examination for International certification. BoS Committee approved the same and it is submitted to the Academic Council for approval.
V	**Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities.** Open ended experiments are given which enables the students to develop projects on their own. Students can choose any circuits/logic/ applications given in each experiment or bring circuits/logic/ applications of their choice suitable to the given experiment for the following courses. 1. 60 EE 4P2-Linear and Digital Integrated Circuits Laboratory 2. 61 EE 2P1-Electric Circuit Laboratory 3. 60 EE 5P2-Special Applications laboratory The students will sketch the design information of a product, Execute efficient assembly and disassembly design in an electronic product, Test and troubleshoot an electrical/electronic circuit for the following course. 1. 60 EE 6P2-Electrical Appliances Analysis Laboratory Dr. S. Thangavel (Subject Expert), Dr. N.P. Subramaniam (Subject Expert), Er.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) approved and it is submitted for the Academic Council for further approval.
VI	**Evaluation pattern for Integrated courses, Project based & System based courses** Dr. S. Thangavel (Subject Expert), Er.K. Kalaiyarasan (Industry Expert) & Dr. K. Udhayakumar (Subject Expert) suggested to follow the same assessment pattern for the integrated courses.
VII	**Internship details of students (2nd, 3rd & 4th Year)** Internship undergone by the Students (2nd, 3rd & 4th Year) during 2024-25: 94 All members appreciated and insisted to follow the mandatory internship policy and give industry exposure to students thereby satisfying the requirements of Anna University.
8.	**Stake holders feedback and action taken** • Introduce AI and ML based elective courses related to electrical engineering • Extra pool of electives to be included for Minors and Honors • Support of industries for Electrical Appliances Analysis laboratory with the inclusion of switchgears and the design and implementation based on economic considerations in the syllabi **Action Taken** Suggestion from stakeholders will be submitted and revised with the approval of Academic Council.
9.	**Suggestions from IQAC** Value Added Course focusing on Life Skill and Sustainability Development Goals may be organized.

Chairman BoS / EEE **Dean Academics** **Dean Administration** **Principal**

Annexure - I

K.S. RANGASAMYCOLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(Autonomous Institution Affiliated to Anna University, Chennai)

DEPARTMENT OF ECE

MEMBERS OF BOARD OF STUDIES (BOS) MEETING - 28

(Period: JUNE 2025)

Date: 13.06.2025 **Time: 11.00 AM**

Venue: ECE Board Room (Hybrid mode)

Meeting link:
https://teams.microsoft.com/l/meetup-join/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1749463347236?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

Department	Electronics and Communication Engineering (UG & PG)		
Programme & Duration	B.E (Electronics & Communication), 4 years, M.E (VLSI Design), 2 years		
Sl. No.	Name, Designation & Address	Position	Signature
1.	Dr.C.Rajasekaran Professor / ECE K.S.Rangasamy College of Technology.	Chairman	
2.	Dr.P.Palanisamy Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Member- Subject Expert (Nominated by Anna University	13-6-2025
3.	Dr.Ashok Rao Former Head, Network Project, CEDT, IISc, Bengaluru.	Member- Subject Expert (Nominated by Academic Council)	
4.	Dr. P.T. Vanathi Retired Professor, Department of ECE, PSG College of Technology, Coimbatore- 641004.	Member- Subject Expert (Nominated by Academic Council)	13/6/25
5.	Mr.Balakumar Chinnusamy Sr. Vice President - HR VVDN Technologies Pollachi - 642 001.	Member-Industry Expert (Nominated by the Principal)	Absent
6.	Mr.S.Babu Ramki ASIC Engineer, Design Verification Facebook India Online Services Pvt. Ltd. Bengaluru - 560 071.	Member-Alumni (Nominated by the Principal)	S. Babu Ramki

7.	Dr.K.B.Jayanthi Professor and Dean Academics / ECE K.S.Rangasamy College of Technology	Member	
8.	Dr.P.Babu Professor/ECE	Member	
9.	Dr.T.Baranidharan Professor/ECE	Member	
10.	Dr.D.Mugilan Assistant Professor/ECE	Member	
11.	Mrs.S.S.Thamilselvi Associate Professor/ECE	Member	
12.	Ms.C.Saraswathy Associate Professor/ECE	Member	
13.	Mrs.K.Vanitha Assistant Professor/ECE	Member	
14.	Mrs.M.Devaki Assistant Professor/ECE	Member	
15.	Mr.S.Saravanan Assistant Professor/ECE	Member	
16.	Mrs.V.P.Kalaiyarasi Assistant Professor/ECE	Member	
17.	Sarmitha.R.J Student/III year ECE	Member	
18.	Rithan.V Student/II year ECE	Member	

BoS Chairman

K. S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE - 637 215

(Autonomous)

AGENDA for BoS Meeting

2024 – 2025 (EVEN SEMESTER)

Name of the Body	Board of Studies (BoS) Electronics and Communication Engineering - UG and PG
Meeting No	28
Date & Time	13.06.2025 & 11.00AM
Venue	ECE meeting Hall (Hybrid mode)
Meeting link	https://teams.microsoft.com/l/meetup-join/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1749463347236?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

The list of members attended the meeting is given in **Annexure - I.** The Agenda discussed is given below:

S.No.	ITEMS
1.	Curriculum of UG programmes R2026 and Curriculum and Syllabi of PG programme R2025
2.	Revision in the Curriculum and Syllabi of I to VIII semester R2022
3.	Curriculum and Syllabi for Minor and Honour Degree programmes R2022, R2026
4.	List of open elective courses and value-added courses offered in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester)
5.	Discussion on Proposed Curriculum for UG (I to VIII semesters, R2026) and PG (I to IV semesters, R2025) Programmes I. Total no. of credits for the UG programme II. Review of curriculum for I to VIII Semester courses (R2026) and Recommendations III. Review of curriculum for I to IV Semester courses (R2025) and Recommendations IV. Curriculum and syllabi to support progression to higher education, career guidance and Start-ups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs) V. Curriculum meeting the requirements of NEP 2020 VI. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and problem-solving skills VII. Incorporation of Virtual Laboratory & Industry sponsored/supported courses and Laboratories VIII. Introduction of New courses
6.	Discussion on Choice Based Credit System I. Self-study courses SWAYAM/NPTEL/MOOC courses offered in 2024-25 (Even semester) and planned to offer in 2025-26 (ODD semester) II. One credit course offered in 2024-25 (Even semester) and planned to offer by industry in 2025-26 (ODD semester) III. Skill based courses offered in 2024-25 (Even semester) and planned to offer in 2025-26 (ODD semester) IV. International Certification completed in 2024-25 (Even semester) and identification of certifications for the forthcoming semesters 2025-26 (ODD Semester) V. Roll out of laboratory classes to encourage students to participate in Design Contests, Hackathon and Ideathon, and similar events. VI. Evaluation plan for integrated courses, Project based & System Based Courses VII. Internship details of Students (2nd, 3rd & 4th Year)
7.	Stake holders feedback and action taken report
8.	Suggestion from IQAC
9.	Any other matters • Suggestions on Examination Reforms (Question Paper Pattern – Internal and End Semester Examination, etc.,) • Suggestion to evaluate project-based courses • Suggestions and permission to start new programmes in thrust area

Minutes of the Board of Studies Meeting
Department of ECE

	BoS Meeting No:28			Date: 13.06.2025		Venue:	ECE meeting Hall (Hybrid mode)
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
The BoS Chairman welcomed all the members for the meeting. The items listed in the agenda are taken for discussion one by one. Rough draft of I to VIII semester curriculum of R2026 and Curriculum and Syllabi of PG programme R2025 are prepared with the inputs received from different stakeholders and referring the other Universities. The same is presented for discussion in the meeting. The minutes of the meeting are as follows:							
1a.	**Curriculum of I and VIII Semester R2026 of UG**	Dr. P. Palanisamy (Nominated by University) and Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	**Semester I** ➢ Tamil courses may be given credits.	As per the suggestions received from BoS members, the following changes are done. ➢ The suggestion on Tamil course credits is submitted to autonomous office for further approval.	BoS Chairman	Curriculum of I and II semester of R2026 (UG)	Submitted to the academic council for further approval
		Dr. P. Palanisamy (Nominated by University) and Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council) Dr.Ashok Rao (Subject Expert Nominated by Academic Council)	**Semester III** ➢ Suggested to use same superscript for all additional and extra credit courses ➢ Recommended to include the credits for internship in the total number of credits of the UG programme in order for the students to take internship in industry in an effective manner ➢ Students may feel difficult to learn the theory courses such as Network Theory and Electromagnetic Waves and the corresponding Laboratory course offered in the same semester	➢ The suggestion is submitted to autonomous office for further processing. ➢ The suggestion is submitted to autonomous office for further processing. ➢ The course 'Electromagnetic Waves' is moved to Semester IV	BoS Chairman	Curriculum of III semester of R2026(UG)	Submitted to the academic council for further approval
		Dr.Ashok Rao	**Semester IV** ➢ Suggested to increase the	➢ The discussion is	BoS Chairman	Curriculum of IV	Submitted to the

		(Subject Expert Nominated by Academic Council) and Dr. P. Palanisamy (Nominated by University) Dr. P. Palanisamy (Nominated by University) Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council) Dr. P. Palanisamy (Nominated by University)	credits for the core Laboratory courses ➢ Recommended that the experiments will be effective if it is open ended ➢ All the Laboratory courses may be offered with minimum 1.5 credits instead of 1 credit ➢ Recommended that there may be a uniformity in offering the credits for the Laboratory Courses ➢ The credit for the Electrical engineering Laboratory course may be reduced from 2 to 1. ➢ Similarly, the credits for the first-year laboratory courses may be reduced and the credits for the core laboratory courses offered from third semester may be increased. ➢ The course 'Electromagnetic Waves' may be moved to semester IV. ➢ The course 'Signals and Systems' may be moved to Semester III.	being done and suggestion will be considered while finalizing the curriculum for R2026. ➢ The credit for Electrical engineering Laboratory course will be decided after discussion with EEE BoS. ➢ The discussion is being done and suggestion will be considered while finalizing the curriculum for R2026. ➢ The course 'Electromagnetic Waves' is moved to Semester IV ➢ The course Signals and Systems' is moved to Semester III.		semester of R2026(UG)	academic council for further approval
		Dr. P. Palanisamy (Nominated by University)	**Semester V** ➢ The course 'Digital Communication' may be offered with 3 credits as there is a separate Lab course 'Digital Communication Laboratory' is offered.	➢ The discussion is being done and suggestion will be considered while finalizing the curriculum for R2026.	BoS Chairman	Curriculum of V semester of R2026(UG)	Submitted to the academic council for further approval

		Dr.Ashok Rao (Subject Expert Nominated by Academic Council)	➢ Suggested to emphasize the concepts more on digital components in the course 'Control Systems' and focus topics on industry based.	➢ The suggestion is accepted and will be considered while framing the syllabus of the course 'Control Systems' of R2026.			
		Dr.Ashok Rao (Subject Expert Nominated by Academic Council)	**Semester VI** ➢ Welcomed the course 'Reverse Engineering Laboratory'	-	BoS Chairman	Curriculum of VI semester of R2026(UG)	Submitted to the academic council for further approval
		Dr. P. Palanisamy (Nominated by University) and Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council) Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	**Semester VII** ➢ Suggested to rename the Laboratory course 'Networks Laboratory' into 'Communication Networks Laboratory' ➢ Recommeded that the course 'Mobile Communication and Networks' may be renamed as 'Mobile Communication' as it includes networks.	➢ The Laboratory course 'Networks Laboratory' is renamed with 'Communication Networks Laboratory'. ➢ The course 'Mobile Communication and Networks' is renamed with 'Mobile Communication'.	BoS Chairman	Curriculum of VII semester of R2026(UG)	Submitted to the academic council for further approval
		All BoS members	**Semester VIII** ➢ All BoS members asked about the need for the 'Professional Elective course' in the 8th semester and recommended that the students of 8th semester need not be in the campus and they need to search for the industry for their career.	➢ It was replied by the Dean (Academics) and BoS chairman that most of the students will be waiving this Professional Elective V and the students who have taken this course will be given classes in the 'Fast track Mode'.	BoS Chairman	Curriculum of VIII semester of R2026(UG)	Submitted to the academic council for further approval

1b	**Syllabus of I and II Semester courses of R2026 UG**	Dr. P. Palanisamy (Nominated by University	**Course Name: Matrices and Calculus** ➢ Suggested to include Bessel functions	➢ It was replied by the course instructor that the course is already heavily loaded and assured that the concept on Bessel functions will be included in the 'Communication' course.	Module Coordinator	Syllabus of Semester I Courses	Submitted to the academic council for further approval
		Dr. P. Palanisamy (Nominated by University	**Course Name: Chemistry for Electrical Sciences and Engineering Chemistry Laboratory** ➢ The course instructor displayed the theory course 'Chemistry for Electrical Sciences' and explained that the first 4 modules are common for all branches of UG and the 5th module is different for ECE students. Regarding the laboratory, the experiments for the laboratory course is common for all branches. ➢ The BoS members suggested to include the experiment regarding the 5th module in the Laboratory course 'Engineering Chemistry Laboratory' as the 5th module is different for ECE students.	➢ Activity/Miniproject is planned for the module 5 and it is mentioned in the syllabus of the course Engineering Chemistry Laboratory itself.	Module Coordinator	Syllabus of Semester I Courses	Submitted to the academic council for further approval
		Dr.Ashok Rao (Subject Expert Nominated by Academic Council)	**Course Name: Electrical Engineering** ➢ Recommended that the syllabus may be revised with the recent topics on 'Electric Vehicle' and Lithium-Ion battery if it is	➢ The suggestions are accepted and the syllabus is revised as per the suggestions given.	Module Coordinator	Syllabus of Semester I Courses	Submitted to the academic council for further approval

			not included in the course 'Chemistry for Electrical Sciences' and suggested to reduce the portions as it is heavily loaded.				
		Dr. P. Palanisamy (Nominated by University Dr.Ashok Rao (Subject Expert Nominated by Academic Council) Dr. P. Palanisamy (Nominated by University) and Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	**Course Name: Electronic Devices** ➢ Suggested to start the syllabus with the concepts on MOSFET ➢ Suggested to emphasize the concepts more on IC level such as selection of ICs, ability to read Product sheet, specification of IC and debugging of 2 and 4 layer board rather than device level. ➢ Suggested to include the concept of FINFET ➢ Recommended to combine 4th and 5th module and include a separate module on 'Power supplies'	➢ The suggestions are accepted and the syllabus is revised as per the suggestions given.	Module Coordinator	Syllabus of Semester II Courses	Submitted to the academic council for further approval
1c.	**Curriculum of Syllabus of R2025(PG)**	Dr. P. Palanisamy (Nominated by University) Dr. P. Palanisamy (Nominated by University) and Dr. P.T. Vanathi (Subject Expert	➢ Suggested to include the course 'Electronic Packaging' instead of the core course 'VLSI Digital Signal Processing' in Semester III. The course 'VLSI Digital Signal Processing' may be moved from Core to Professional Elective I group. ➢ The content on Graph Theory may be increased in the course 'Linear Algebra and Graph Theory' and suggested to remove 3rd	➢ The course 'VLSI Digital Signal Processing' is moved to Professional Elective I group and a course on 'Electronic Packaging' is offered in the Professional core instead. ➢ Based on the suggestions, the syllabus is revised.	BoS Chairman Module Coordinator	Curriculum of R2025(PG) Syllabus of I semester courses	Submitted to the academic council for further approval

		Nominated by Academic Council) Dr.Ashok Rao (Subject Expert Nominated by Academic Council) Mr.S.Babu Ramki (Industry Expert)	module Boolean Algebra and fine tune the 2nd module Mathematical Logic. ➢ The idea on FINFET may be introduced in the course 'Digital IC Design' as 3D circuits are going to dominate in the future. ➢ The concept on Lithographic Technique may be introduced as it is the key issue for VLSI chip Design now-a-days in 3 and 5nm technologies. ➢ Recommended to include the book by Chris Mack ➢ The courses such as Semiconductor Device Modelling, Memory Devices and circuits, Semiconductor Memory and Testing, High speed Interconnects, and Hardware Security may be introduced.	➢ The concept of FINFET will be discussed during class hours as the same concept is included in UG course 'Electronic Devices'. ➢ The book on Fundamental Principles of Optical Lithography: The Science of Microfabrication by Chris Mack is added in the references. ➢ The discussion is being done and courses will be included wherever needed.	Module Coordinator BoS Chairman	Syllabus of I semester courses Curriculum of R2025(PG)	
2.	**Revision in the Curriculum and Syllabi of I to VIII semester R2022**	Dr. P.T. Vanathi	Students felt difficult to learn the concepts of 32-bit microcontrollers directly in the course 'Embedded Systems' from the 8-bit microcontrollers learnt in the course 'Microprocessors and Microcontrollers' of R2022 and the syllabus is heavy in the course 'Embedded Systems'. Based on the suggestions from the students, the syllabus is displayed for discussion. ➢ The member suggested that	Based on the suggestions from BoS members, the content of syllabus is revised and submitted to academic council for further approval.	Module Coordinator	Syllabus of Semester VI Courses of R2022	Submitted to the academic council for further approval

		(Subject Expert Nominated by Academic Council)	the content in module 5 - RTOS may be reduced. ➢ Suggested to keep Interrupt API or Task Creation API in module 5. ➢ Similarly, Suggested to keep either SAR ADC or HAL_ADC module in module 3 - Peripherals in CORTEX M3 ➢ Suggested to start with the simple programs in 32-bit microcontrollers	➢ Removed the content HAL_ADC module in module 3 – Peripherals in CORTEX M3 ➢ In module 5 – RTOS, the scheduling algorithms such as Round robin, Earliest Deadline First are specified instead of static and dynamic scheduling that are specified in general.			
3.	**Curriculum and syllabi for Minor and Honours degree programmes (R2022 and R2026).**	Dr.Ashok Rao (Subject Expert Nominated by Academic Council)	**Minor Degree (Internet of Things) – R2022/R2026** ➢ Suggested to include one more course in the Minor degree courses for students' choice.	➢ The suggestion is accepted and submitted for further approval.	BoS Chairman	Curriculum of Minor degree courses	Submitted to the academic council for further approval
		Dr. P. Palanisamy (Nominated by University)	**Honours Degree** ➢ Suggested to include one vertical on Signal Processing in the Professional Electives	➢ The suggestion is accepted and a vertical on Signal and image processing is included in the Professional Electives of R2026 curriculum.	BoS Chairman	Curriculum of Honours degree courses	Submitted to the academic council for further approval
4.	**List of open elective courses and value-added courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even semester)**	Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	The list of open electives and value-added courses are listed by the BoS chairman and all BoS members accepted the same ➢ Suggested to offer the course 'Consumer Electronics'	➢ The suggestion is accepted, included in the list of open elective courses and submitted for further approval.	BoS Chairman	Curriculum of R2026(UG)	Submitted to the academic council for further approval

		Dr.Ashok Rao (Subject Expert Nominated by Academic Council)	➢ Suggested that there may be a discussion with the other departments and the courses will be effective only if it is offered in the way what they want and how they want	➢ The suggestion is accepted and considered for further processing.			

5a. Discussion on Proposed Curriculum for UG (I to VIII semesters, R2026) programme

I. **Total No. of credits for the UG programme** -162

II. **Review of curriculum for I to VIII semester Courses (R2026) and Recommendations**

The proposed curriculum of I to VIII Semesters for R2026 (UG) is reviewed and finalized according to the suggestions given by BoS Members.

III. **Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs)**

Higher Education (%)	Career Guidance (%)	Entrepreneurship (%)
100 (GATE courses)	95.06 (Core and open electives) + CCD	11.42

IV. **Curriculum meeting the requirements of NEP 2020**

The following courses are offered for students in order to meet the requirements of NEP 2020

- Components of Curriculum framework - UGC
- Multidisciplinary – Open elective courses (Electrical Vehicle Technology, FPGA Design, Digital Transformation in manufacturing, Stock Trading, Sensor Technology and so on).
- Skill Enhancement Courses (SEC) – CSD (Carrier Skill Development courses from semester II to VI)
- Value Added Courses – One credit courses
- Summer Internship – Mandatory 6 weeks internship with additional credits
- Research Project / Dissertation – Project phase I & II, Research Skill Development (Audit course)
- The department integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values and Environment and Sustainability into the Curriculum through the courses such as Universal Human Values and Environmental Studies and Climate Change.

V. **Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills**

Design Thinking (%)	Critical Thinking Skills (%)	Problem Solving Ability (%)
20 (All Core Laboratories)	54 (question paper based)	26 (Tutorial courses)

VI. **Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories**

a) **Virtual Laboratory**

Name of Course with Code	Semester	Name of Institution / Open Source Tools
60 EC 2P1 - Electronic Devices Laboratory	II	Basic Electronics Virtual Laboratory, IITKGP
60 EC 3P1 - Analog and Digital Electronics Laboratory	III	https://ae-iitr.vlabs.ac.in https://de-iitg.vlabs.ac.in
60 EC 4P1 - Linear Integrated Circuits and Electromagnetics Laboratory	IV	https://ae-iitr.vlabs.ac.in
60 EC 5P2 - VLSI Laboratory	V	https://www.iitg.ac.in/cseweb/vlab/vlsi
60 EC 5P3 - Signal Processing Laboratory	V	https://dsp-iitkgp.vlabs.ac.in

b) Industry sponsored/supported courses and laboratories

- IoT Product Development laboratory is supported by Enthu technology Solutions India Pvt Ltd, Coimbatore.
- Analog and Digital Electronics laboratory is supported by Tessolve Semiconductors Pvt. Ltd, Bengaluru.
- Embedded systems laboratory is supported by Enthu Technology Solutions India Pvt. Ltd.
- VLSI laboratory is supported by VLSI Mentors, Bengaluru.
- Microprocessors and Microcontrollers laboratory is supported by Chatting Birds Pvt. Ltd, Hosur.

VII. **New courses offered in R2026**

Design Thinking using IDEA Lab - I	Biology for Engineers
Design Thinking using IDEA Lab - II	Sensors Actuators and Interface Electronics
Electrical Engineering	Signal Integrity
Electrical Engineering Laboratory	PIC Microcontrollers
Mini Project	VLSI Testing and Design for Testability
	Parallel and Distributed Processing

The BoS members approved the curriculum of R2026 and curriculum and syllabi of R2022. It is resolved to submit it to academic council for further approval.

5b. Discussion on Curriculum and Syllabus of PG (I to IV semesters, R2025) Programme

I. **Total no.of credits for the PG programme** – 72

II. **Review of curriculum and syllabus for I to IV Semester courses of R2025 and Recommendations**

Curriculum and syllabus of I to IV Semester for R2025 (PG) are finalized according to the suggestions given by BoS Members.

III. **New courses offered**

Course Name	
Digital IC Design	Machine Learning in VLSI Design
Electronic Design Automation	Cognitive Radio
Data Converters IC Design	Logic Synthesis Techniques
System Design with FPGA	VLSI Technology
Advanced Computer Architecture	VLSI Broadband Communication Circuits
IoT Architecture and Computing	Embedded System and RTOS

The BoS members approved the curriculum of R2025(PG) and curriculum and syllabi of R2022. It is resolved to submit it to academic council for further approval.

6. Discussion on Choice Based Credit System

I. **Self-study courses SWAYAM/NPTEL/MOOC courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester)**

- Infosys Springboard certification courses are given as self-study courses.
- It is decided to offer some of the core/elective courses as self-study courses during 2025-26 for students with CGPA>= 9.
- The list of courses is given below,

Sl.No.	Course Name
1.	Computer Networks
2.	Consumer Electronics
3.	Embedded Systems

II. **One credit courses and Skill based courses offered in 2024-25 (Even semester) and planned to offer in 2025-26 (ODD semester)**

Name of the course			
S.No.	**Offered**	**S.No.**	**Planned**
1.	ASIC System Design and Verification	1.	Data Acquisition using NI DAQmx and LabVIEW
2.	Signal Processing with MATLAB	2.	LoRa Wireless Communication for IoT Application
3.	Advanced Data Acquisition and Control	3.	Embedded C for IoT Application
4.	Smarter critical systems using STM32	4.	Design for Testability in VLSI
5.	ASIC verification using UVM Methodology	5.	Antenna Design
		6.	Smart Satellite Communication
		7.	Embedded IoT using LoRA WAN Technology
		8.	FPGA with Vivado
		9.	PLC Programming and SCADA networks

III. **International Certification completed in 2024-25 (Even semester) and identification of certifications for 2025-26 (ODD Semester)**

- Students are encouraged to do the International Certifications such as LabVIEW, CISCO, Mathworks, Guvi and Infosys Springboard in the forthcoming semesters. All BoS members appreciated the proposal of giving credits to the students for obtaining International Certifications and approved the same to proceed. They also felt that it would raise the standards of the students to meet the industry needs.
- Students have completed the following certification in 2024-25 Even semester - MATLAB onramp courses (82 students completed).

IV. **Roll out of laboratory classes to encourage students to participate in Design Contests, Hackathon and Ideathon, and similar activities**

Name of Laboratory offered in R2022	**Semester**	**Contest**
Analog and Digital Electronics Laboratory	III	Open ended experiments are given which will enable the students to develop projects on their own. Students can choose any circuits/logic/ applications given in each experiment or bring circuits/logic/ applications of their choice suitable to the given experiment.
Linear Integrated Circuits and Electromagnetics Laboratory	IV	
Microcontrollers Laboratory	V	
Signal Processing Laboratory	V	
VLSI Laboratory	V	
Embedded systems Laboratory	VI	
Digital Communication Laboratory	VI	
Networks Laboratory	VII	
RF Laboratory	VII	
Electronic Design Project Laboratory	IV	Students have to design application circuits/systems using analog and digital electronic components. Circuits can be chosen from the given list of experiments but need not be confined to it.
Innovation Engineering Laboratory	VI	Students will • Diagnose; trouble shoot and extract the circuit drawing from the given PCB. • Teardown a product from the given list or on their own to find the design information, drawing of the circuit, and power requirements. • Prepare report based on the inferences.

V. **Evaluation & course outcome plan for integrated courses, Project based Courses**

The assessment pattern for integrated courses, project-based courses are presented by BoS chairman and all the members approved the same.

VI. **Internship details of Students (2nd, 3rd & 4th Year)**

Credits will be given for students undergoing internship/doing projects in relevant industry and it is given below:

Duration of Training /Internship	Credits
2 Weeks	1
4 Weeks	2
6 Weeks and above	3

No. of Students undergone internship during 2024-25 (Even Semester)

2021 Admitted batch – 49	2022 Admitted batch – 12	2023 Admitted batch - 05

The BoS members appreciated the incorporation of choice based credit system in the curriculum and approved the same. It is resolved to submit it to academic council for further approval.

7. **Stakeholder's feedback and action taken**

R2026 CURRICULUM

Name of the Stakeholder	Type of the stakeholder	Feedback / Suggestions	Action Taken
Mrs.S.S.Thamilselvi	Faculty	Referred the curriculum and syllabus of AICTE and I would like to recommend the course 'Analog Circuits' along with its laboratory in the 3rd semester.	'Analog circuits' course is included in the R2026 curriculum based on the inputs from faculty by referring AICTE.
Mr.P.Balamurugan		It is good to increase the communication related courses in the elective group.	Based on the input from faculty, an elective vertical on 'Wireless & High-Speed Communications' is introduced in R2026 Curriculum.
Mr.S.Saravanan		I suggest to include CMOS Analog IC Design as the core industry focusses more on VLSI chip design now-a-days.	A course on CMOS Analog IC Design is introduced in the elective vertical 'Embedded and Chip Design'.
Elavarassan K, American Megatrends International Pvt Ltd	Industry/Employer	Include concepts on Inter Process Communication, Linux Basics and commands, Hands on Experience with Ubuntu to provide valuable practical skills	It will be included while framing the syllabus of the course 'Embedded Systems' of R2026
Govindharajan M, Wipro Limited		Good to see the inclusion about the Heritage and cultural aspects of Tamil and course computer networks back in 6th semester of R2026	The course 'computer networks' is retained in the 6th semester of R2026 itself.
Mohamed Aakil, Tupac Automation Pvt.Ltd.,		Suggested the following, ➢ **New Core Course Suggestions:** • Industry 4.0 and Smart Manufacturing • Hardware-Software Co-Design • AI Applications in Embedded Systems ➢ **Additional Vertical Suggestions:** • Cyber-Physical Systems • Robotics and Intelligent Automation	The course 'Industrial IoT and Industry 4.0' is offered in Elective group in which the concept on smart manufacturing will be emphasized while framing the syllabus. Similarly, the concepts on AI Applications in Embedded Systems will be introduced in the course 'Embedded systems' while framing the syllabus. **Regarding vertical suggestions,**

		• Advanced Communication Networks (with focus on 5G/6G technologies) ➢ **General Feedback:** Enhancing the curriculum with real-time industry projects, collaborative internships, and guest lectures by industry professionals could further strengthen the practical exposure of students.	The discussion is being done and the course '5G Communication Networks' is offered in the elective vertical 'Wireless & High-Speed Communications' **Regarding general feedback**, the department ➢ Offers internship in the curriculum with additional credits. ➢ Provides Industry supported Courses ➢ Organizes the guest lectures for all courses with industry experts
Shailesh, ARK circuitry, 2023 passed out	Alumni	Suggested to offer the courses such as Embedded Hardware and Software and IoT	An elective vertical 'Sensor Technologies and IoT' is offered in which IoT related courses such as IoT Hardware, IoT Product Development and Industrial IoT and Industry 4.0 are offered.
S.Divyadurga, Zuci systems, 2023 passed out		Suggested to offer AI and python related courses and Data Science	An elective vertical 'Computational Intelligence' is introduced in which the courses such as 'Data Science', 'Artificial Intelligence' and 'Computer Vision: Algorithms and Applications' are offered.
Rithan.V, II Year ECE	Students	Recommended to include the concepts on display devices such as functions on CRO, and Power supply	It is included in the course Electronic Devices
Sarmitha.R.J. III Year ECE		Welcomed the mode of content delivery 'Group Discussion' and suggested to continue further as it improves their communication skill for placement.	It is decided to continue this kind of content delivery for the suitable courses.

All the suggestions are incorporated in the R2026 curriculum and submitted for further approval. All these suggestions were presented in BoS meeting and all members welcomed the suggestions, appreciated and approved the changes incorporated.

8. Suggestions from IQAC

- Value Added Courses focusing on women's empowerment may be offered
  - i) Women Health & Human Rights through Coursera
  - ii) Gender Equality through Inclusive Design through Coursera
  - iii) Gender Equality and Women Empowerment through Udemy
- Courses based on sustainability development may be offered as one credit/value added courses
- Minor Degree:
  - i) Minor degree may be offered in Machine Learning, Data Science and artificial intelligence to students of non-circuit branches like Mechatronics, Mechanical, EEE, ECE, TXT.
  - ii) Minor degree in Business and Entrepreneurship may be offered to the students wants to be an entrepreneur.

9. Any other matters

Discussion on the following matters is done in the meeting and approval received from BoS members.

- Members suggested that the quality of the Internal assessment tests and End semester examination question papers has to be maintained considering university norms.
- The BoS members suggested to allow PG students to go for internship.
- The members suggested that the total number of credits for the UG programme for all branches may be same.

- They also suggested to include the courses such as Gen AI, Neuromorphic Computing, Computer Architecture for UG and 3D stacked IC Design for PG.
- DAB members suggested the following one credit courses such as Satellite communication and antenna design and smart satellite communication, Embedded IoT using LoRA WAN Technology, Industry 4.0 along with IoT, PCB Design and LINUX certifications and AWS Certifications, FPGA with Vivado and PLC Programming and SCADA networks.
- They also suggested that the CLAD beginner level certification is good for student's career.
- DAB Members reviewed the Embedded Systems syllabus and suggested that the module 1 and 2 might be generic.

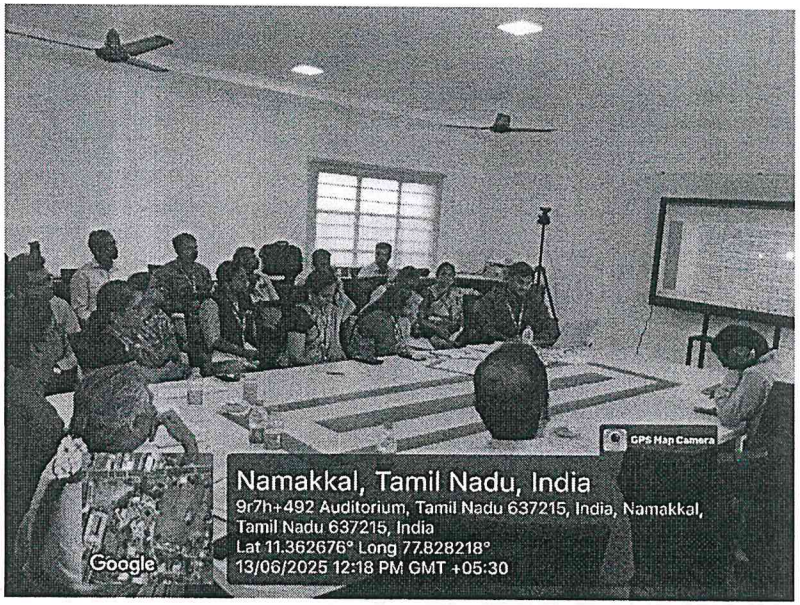
Chairman
BoS/ECE

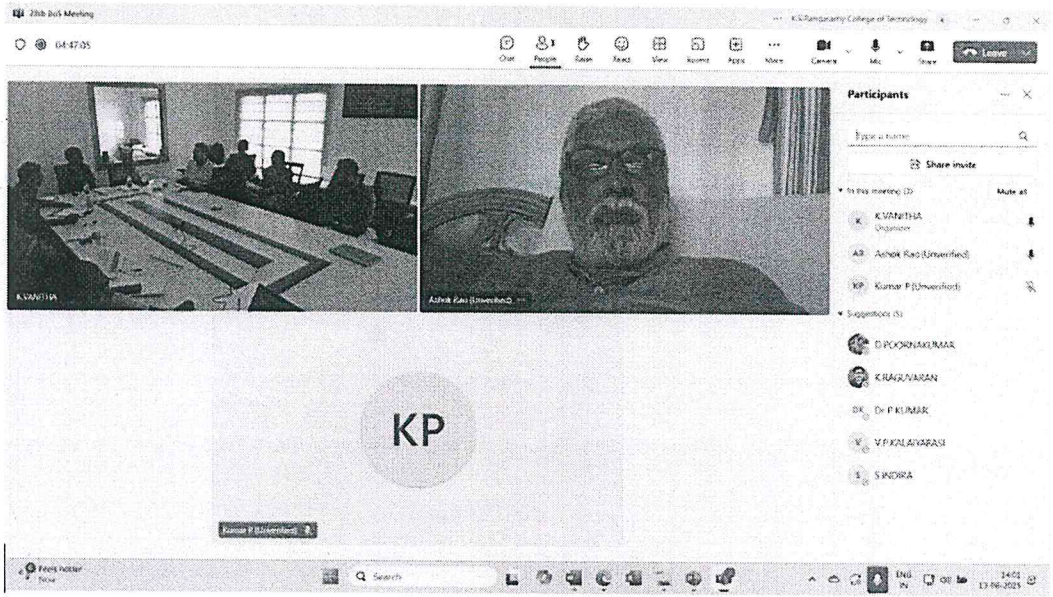
Dean-Academics

Dean-Administration

Principal

Snapshot of BoS meeting





Annexure - I

K.S. RANGASAMYCOLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637215

(Autonomous Institution Affiliated to Anna University, Chennai)

DEPARTMENT OF Electronics Engineering (VLSIDT)

MEMBERS OF BOARD OF STUDIES (BOS) MEETING

(Period: JUNE 2025)

Date: 13.06.2025 **Time: 11.00 AM**

Venue: ECE Board Room (Hybrid mode)

Meeting link:
https://teams.microsoft.com/l/meetup-join/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1749463347236?context=%7b%22Tid%22%3a%22ca51afa4-43e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

Department	Electronics Engineering (VLSIDT)		
Programme & Duration	B.E (Electronics Engineering - VLSIDT), 4 years		
Sl. No.	Name, Designation & Address	Position	Signature
1.	Dr.P.Kumar Professor / EE(VLSIDT) K.S.Rangasamy College of Technology.	Chairman	
2.	Dr.P.Palanisamy Professor, Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Member- Subject Expert (Nominated by Anna University	13.6.2025
3.	Dr.Ashok Rao Former Head, Network Project, CEDT, IISc, Bengaluru.	Member- Subject Expert (Nominated by Academic Council)	
4.	Dr. P.T. Vanathi Retired Professor, Department of ECE, PSG College of Technology, Coimbatore- 641004.	Member- Subject Expert (Nominated by Academic Council)	13/6/25
5.	Mr.Balakumar Chinnusamy Sr. Vice President - HR VVDN Technologies Pollachi - 642 001.	Member-Industry Expert (Nominated by the Principal)	- ABSENT -
6.	Mr.S.Babu Ramki ASIC Engineer, Design Verification Facebook India Online Services Pvt. Ltd. Bengaluru - 560 071.	Member-Alumni (Nominated by the Principal)	S Babu Ramki

7.	Dr.S.GOMATHI Professor / EE(VLSIDT)	Member	
8.	Mrs.C.SARANYA Assistant Professor / EE(VLSIDT)	Member	
9.	MR.T.RAJAVENKATESAN Assistant Professor / EE(VLSIDT)	Member	
10.	Mr.D.POORNAKUMAR Assistant Professor / EE(VLSIDT)	Member	
11.	Dr.S.PRADEEP Assistant Professor / EE(VLSIDT)	Member	
12.	Mr.A.SURESHKUMAR Assistant Professor / EE(VLSIDT)	Member	
13.	Dr.N.LALITHAMANI Professor / EE(VLSIDT)	Member	
14.	Dr.P.SUTHANTHIRAKUMAR Assistant Professor / EE(VLSIDT)	Member	
15.	Kalaimagal S Student/I year EE(VLSIDT)	Member	
16.	Suriya Prasanth M Student/I year EE(VLSIDT)	Member	

BoS Chairman

Chairman - Board of Studies
Department of Electronics Engineering
(VLSI Design and Technology)
K.S.Rangasamy College of Technology
Tiruchengode - 637 215.

K.S.Rangasamy College of Technology, Tiruchengode- 637 215

(Autonomous)

Agenda for BoS Meeting

2024 – 2025 (Even Semester)

Name of the Body	Board of Studies (BoS) Electronics Engineering (VLSI Design and Technology) - UG
Date & Time	13.06.2025 & 10.30AM
Venue	ECE meeting Hall and Microsoft Teams
Meeting link	https://teams.microsoft.com/l/meetupjoin/19%3a275f69696e1f4fc488d809fad6764d31%40thread.tacv2/1749463347236?context=%7b%22Tid%22%3a%22ca51afa443e6-4d01-9a9a-633374b0618e%22%2c%22Oid%22%3a%22f6bfd4ef-9984-42bf-99e1-6b1ee3446aeb%22%7d

The list of members attended the meeting is given in **Annexure - I.** The agenda discussed is given below:

S.No	ITEMS
1.	**Curriculum of I to VIII Semester of UG - R2026**
2.	**Revision in the Curriculum and syllabi of I to IV Semester of UG courses R2022.**
3.	**Discussion on Choice Based Credit System** I. Self-study courses SWAYAM / NPTEL / MOOC courses II. One credit course offered in 2024-25 (Even Semester) and planned to offer by industry in 2025-26 (Odd Semester) III. Skill based courses offered in 2024-25 (Even Semester) and planned to offer 2025-26 (Odd Semester) IV. International Certification planned in 2025-26 with credits V. Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc. VI. Evaluation & course outcome plan for integrated courses, Project Based & System Based Courses VII. Internship for Students (2nd, 3rd& 4th Year)
4.	**Stake holders feedback and action taken**
5.	**Suggestion from IQAC**
6.	Any other matters • Question Paper Pattern – Internal and End Semester Examination

Minutes of the Board of Studies Meeting
Department of EE(VLSIDT)

				Date: 13.06.2025		Venue:	ECE meeting Hall + Microsoft Teams platform
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
The BoS Chairman welcomed all the members for the meeting. The items listed in the agenda are taken for discussion one by one. As per the feedback received from stake holders, R2026 Curriculum was framed. The minutes of the meeting are as follows:							
1	**Curriculum of I to VIII Semester for R2026 of EE(VLSIDT)**	Dr.P.Palanisamy (Nominated by University)	➢ Suggested to have total number of credits 162 to 164 for R2026.	Project management course listed in the 8th semester is moved to professional elective and the total credits reduced from 166 to 163 for R2026.	Module coordinator & BoS Chairman	Curriculum of R2026(UG)	Submitted to the academic council for further approval
			➢ Suggested to change the course name Circuit Theory and Network analysis to Circuit Analysis	Course Name changed to Circuit Analysis in R2026.			
			➢ Suggested to change the vertical name Fabrication and Advanced Design Techniques relevant to the courses	Vertical name changed to VLSI System Design and Security.			
		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	➢ Suggested to remove VLSI interconnects in the verticals and add suitable course	VLSI interconnects course removed from RF technologies vertical and added in the vertical III (VLSI System design and security).	Module coordinator	Curriculum of R2026(UG)	Submitted to the academic council for further approval
			➢ Suggested to change the system Verilog course to second vertical	System Verilog course has been removed to vertical II (Chip design and Testing).			

		Dr. Ashok Rao (Subject Expert Nominated by Academic Council)	➢ Suggested to keep the course name digital signal processing ➢ Suggested to keep the lab name digital signal processing laboratory	Course name changed from Discrete signal processing to Digital signal processing. Laboratory name changed from Discrete signal processing laboratory to Digital signal processing laboratory.	Module coordinator	Curriculum of R2026(UG)	Submitted to the academic council for further approval
		Mr.S.Babu Ramki Member-Alumni (Nominated by the Principal)	➢ Suggested to include embedded related course to Vertical IV (IoT Applications). ➢ Suggested to change the course name Network on chip to System on chip in vertical II.	Included Advanced Embedded Systems in the Vertical IV. Course name changed as per the suggestion.	Module coordinator	Curriculum of R2026(UG)	Submitted to the academic council for further approval
		All BoS Members	➢ The list of open elective courses was presented and discussed in detail during the BoS meeting ➢ Discussed about the curriculum which is designed to support students' progression to higher education, provide career guidance, encourage entrepreneurship and	The members reviewed the courses relevance to interdisciplinary learning, and applicability to industry needs, and expressed their satisfaction with the variety and scope of the electives offered. Curriculum included with design thinking laboratory to address critical thinking. Offered Startup and Entrepreneurship to emphasize Entrepreneurship	BoS Chairman	Curriculum of R2026(UG)	Submitted to the academic council for further approval

			startup culture, and address cross-cutting issues such as ethics, environment, and sustainability, aligning with the United Nations Sustainable Development Goals (SDGs). ➢ Discussed about the curriculum is framed in accordance with the guidelines and spirit of the National Education Policy (NEP) 2020.	Development and Innovation. Offered Environmental Studies and Climate Change, Universal Human Values to address environmental sustainability, ethics, gender equity Multidisciplinary electives and flexible credit options for internships, research projects, and community-based learning is offered in the curriculum.			

2.	**Revision in the Curriculum and syllabi of I to VI Semester of UG courses R2022.**	All BoS members	➢ Proposed to reduce the signals and system syllabus content as per stakeholders feedback.	Below topics are reduced from the syllabus • Representation of CT Signals by Samples • Impulse Train Sampling - Effects of Under Sampling • Discrete Time Fourier Series	Module coordinator	Signals and System Syllabus IV semester of R2022(UG)	Submitted to the academic council for further approval
			➢ The Program Outcomes (POs), Program Specific Outcomes (PSOs), and Program Educational Objectives (PEOs) were thoroughly discussed and reviewed during the BoS meeting to ensure alignment with the current industry requirements, academic standards, and the overall vision of the department.	Members expressed their satisfaction with the clarity, relevance, and alignment of these outcomes with the program's vision and industry expectations	BoS Chairman	Curriculum of R2022	
			➢ Discussed about Elective course ASIC Synthesis and STA offering by industry VLSI Mentors.	Members appreciated the industry involvement and expressed their satisfaction with the course content	Module Coordinator	R2022 Electives V semester	

3. Discussion on Choice Based Credit System

I. Self-study courses planned to be offered in the even semester of 2025-26.

NPTEL courses are given as self-study courses and it is made mandatory for all students. Faculty mentors are available with students supporting them.

II. One credit course planned to offer by industry in odd semester of 2025-26.

S.No.	Name the Course
1	Digital Design Using Multi-Vt Libraries
2	Universal Verification Methodology (UVM) test using scripting language

III. Skill based courses planned to be offer in odd semester of 2025-26.

S.No.	Name the Course
1	Digital Circuit Design Using VHDL
2	Embedded System Design
3	PCB Design and Development

IV. International Certification planned in 2025-26 with credits

Students are encouraged to do the International Certificates such as Coursera, Udemy, Edx, Mathworks, Guvi and so on.

V. Roll out of laboratory classes to make students to participate in Design Contests, Hackathon and Ideathon, etc.

Name of Laboratory R2026	Semester	Contest
Electronic Devices Laboratory	II	• Planned Open ended experiments which will enable the students to develop projects on their own. • Students can choose any circuits/logic/ applications given in each experiment or bring circuits/logic/ applications of their choice suitable to the given experiment. • Planned to provide hands-on exposure to core and advanced topics, and their rollout aims to actively
Analog and Digital Electronics Laboratory	III	
Linear IC Laboratory	III	
VLSI Design laboratory	IV	
Microcontrollers Laboratory	IV	
Embedded Systems Laboratory	V	
FPGA Based System Design Laboratory	V	

Embedded Systems Laboratory	V	promote student participation in design contests, hackathons, ideathons, and other innovation-centric activities.
ASIC Design Laboratory	VI	
VLSI Verification and Testing Laboratory	VI	
Microfabrication Laboratory	VII	
Design Thinking and Innovation Laboratory & Design Thinking and Product Development Laboratory	I & II	• Students have to design application circuits/systems using Electronics Engineering Domain. Applications can be chosen (any four) from the given list but need not be confined to it.

VI. Evaluation & course outcome plan for integrated courses, Project based & System Based Courses

The assessment pattern for integrated courses, project-based courses are presented by BoS chairman and all the members were satisfied.

VII. Internship for Students (2nd, 3rd& 4th Year)

Credits shall be given for students undergoing internship/doing projects in relevant industry and it is given below:

Duration of Training /Internship	Credits
2 Weeks	1
4 Weeks	2
6 Weeks and above	3

4. Stakeholder's feedback and action taken

Name of the Stakeholder	Type of the stakeholder	Regulation	Course Name/General	Feedback / Suggestions	Action Taken
Mr.Ramesh G, Training Head, MSPAND Technologies Pvt Ltd, Theni	Industry/Employer	R2026	Low Power VLSI	Low power VLSI course should be introduced in the Curriculum.	It is incorporated in the professional Elective.
Mr. Abubakkar Sidhiq, Senior Software Engineer, Glopal Logic, Poland			-	STA and Physical verification need to be included	It is incorporated in the professional Elective.
			Embedded Systems	Suggested to move Embedded systems to V semester	It is incorporated in the professional Elective.
			General	Suggested to include programming course on second semester	Planned to give self-study courses in the 2nd semester

Mr.Nepolean, Tessolve Semiconductors Ltd. Bengaluru.		R2026	General	Suggested to include UVM and Scripting Concepts	Included in the Professional Electives
				Suggested to include IP/SOC concepts	Included in the Professional Electives
Mr.Kumar, VLSI mentros, Bengaluru.	Industry/Employer	R2026	General	Suggested to provide Hands on FPGA boards, Vivado, Verilog and System Verilog	Included in the Curriculum
Mr.V.Prabhakar Tessolve Semiconductors Ltd. Bengaluru.				Suggested to include SoC Architecture, analog/RF/Memory Concepts.	Courses SoC. RF technologies verticals Included in the curriculum
Mr.Mouli Shanmugam FPGA Design Engineer Data Pattern, Chennai.				Suggested to Include Digital design concepts and Practical.	Included in the curriculum
Mr.Maheswaran Trainee Engineer Keenheads Technologies Pvt Ltd Noida.				Suggested to include TCL Scripting, STA and Physical verification	Included in the electives
Mr.K.Ganesan CEO & Founder InternEzy Mettur.				Suggested to include IoT related Concepts in the curriculum	Included in the curriculum
Mr.K.Gowtham Senior Verification Engineer Samsung Semiconductor India research, Bengaluru.				Suggested to include OOPs concept, GLS concepts in the Curriculum	Included in the curriculum
Mr.M.Divagar Senior Testing Engineer Qualcom, Bengaluru.				Suggested to give more emphasize on Digital Concepts and all modelling using Verilog.	Courses Digital modelling and digital system design added in the curriculum

All these suggestions are presented in BoS meeting and members welcomed the suggestions and appreciated the changes incorporated.

5. Suggestions from IQAC

Suggestions	Action Taken
➢ Value Added Courses can be given focusing on women & empowerment ➢ Women Health & Human Rights - Coursera ➢ Gender Equality through Inclusive Design - Coursera ➢ Gender Equality and Women Empowerment – Udemy	Motivated the students to take self-study courses on women & empowerment in 2025-2026 Odd semester.

6. Any other matters

Discussion on the following matters is done in the meeting and approval received from BoS members.

Members suggested that

- ➢ Quality of the internal assessment tests and End Semester Examination Question Papers has to be maintained considering university norms.
- ➢ All members suggested to avoid the words such as definition, introduction, basics, overview and fundamentals in the syllabus.

Chairman
BoS / Electronics Engineering
(VLSI Design and Technology)

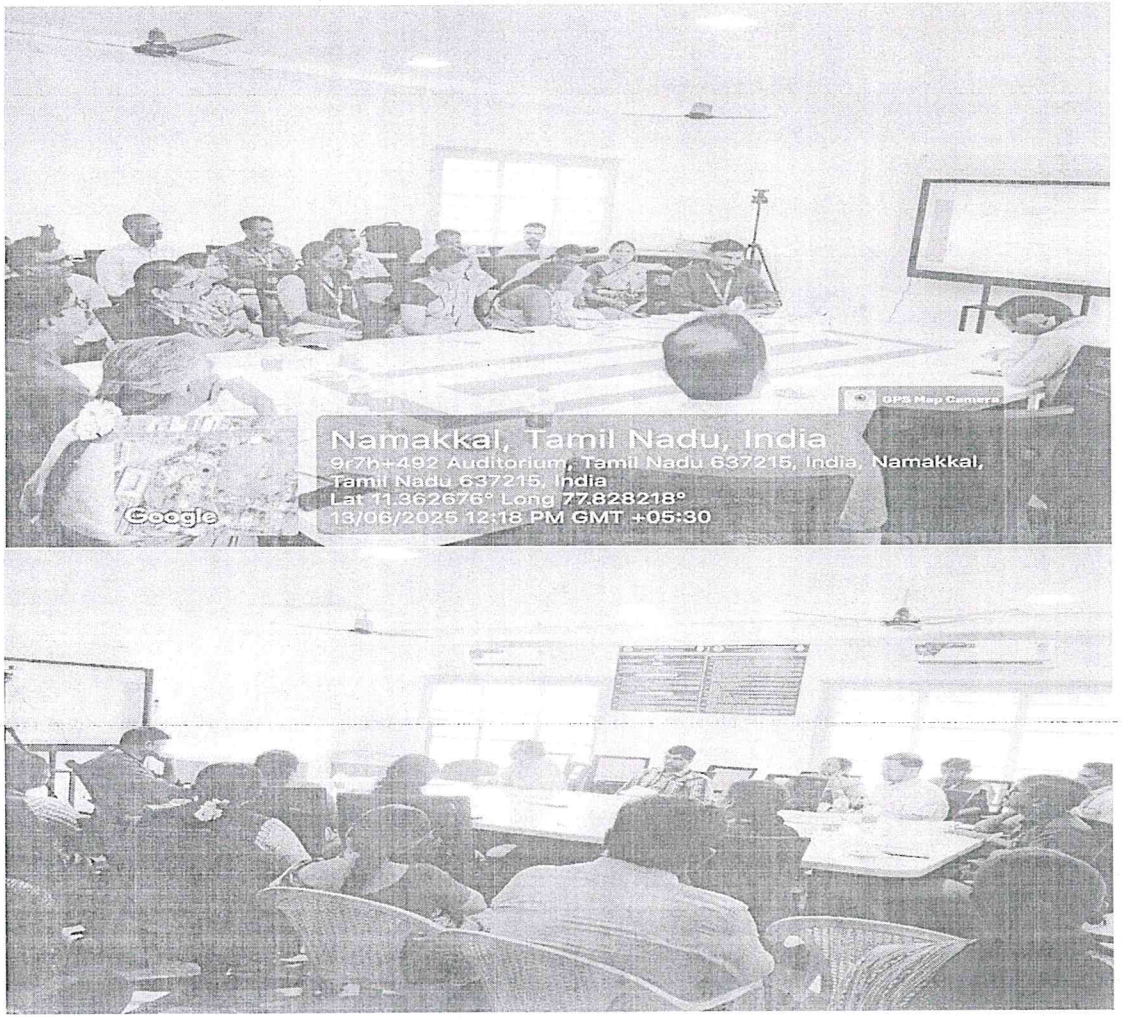
Dean Academics

Dean Administration

Principal

Chairman - Board of Studies
Department of Electronics Engineering
(VLSI Design and Technology)
K.S.Rangasamy College of Technology
Tiruchengode - 637 215.

Snapshot of BoS meeting



	K.S.RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE - 637 215 (An Autonomous Institution, Affiliated to Anna University Chennai)	CSE

Department of Computer Science and Engineering
28th Board of Studies Meeting

(Period Dec – 2024 to May- 2025)

Date: 18.06.2025 **Time: 9.30 AM**

Department	**Computer Science and Engineering**		
Programme and Duration	**B.E. (Computer Science and Engineering), 4 years** **M.E.(Computer Science and Engineering), 2 years**		
S. No.	**Name , Designation & Address**	**Position**	**Signature**
1.	Dr. S. Madhavi Professor & Head Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID : hodcse@ksrct.ac.in Mobile No: 9095060950	Chairman	18/6/25
2.	Dr.B.G.Geetha Professor & Director (ITIM)/KSRCT Mail ID : directoritim@ksrct.ac.in Mobile No: 9894688866	Member (Subject Experts from the department)	18/6/25
3.	Dr. A. Gnanabaskaran Prof/CSE/KSRCT Mail ID : gnanabaskarana@ksrct.ac.in Mobile No: 9626335995		18/6/25
4.	Dr. S. Sikappi Assistant Professor (Sr. Gr.) Department of Computer Applications Coimbatore Institute of Technology, Coimbatore. Mail ID: sikappi@cit.edu.in Mobile No: +91 93632 28509	Member (Outside Nominated by University)	
5.	Dr.S.Kanmani Professor in Department of IT, Puducherry Technological University Puducherry-605014. Mail ID: kanmani@ptuniv.edu.in Mobile No: +91 94432 06299		
6.	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Mail ID : Ilan.ganesamurthy@gmail.com Mobile: 9790987715	Member (Meritorious Alumnus)	

7.	Mr. M. Devendran Blockchain Technical Project Manager, Casper Association, Chennai. Mail ID : devconnects@gmail.com Mobile: +91 91766 61208	Member (Industry Expert)	—
8.	Dr. V. Jayakumar Assistant Professor (Senior Grade) Presidency University Bangalore. Mail ID: jayakumarksrit@gmail.com Mobile No: +91 98941 49036	Member (Subject Expert)	—
9.	Dr.Prabha Selvaraj Professor Senior Grade 1, School of Computer Science and Engineering, Vellore Institute of Technology, Andhra Pradesh.. Mail ID: prabha.s@vitap.ac.in Mobile No: +91 98414 50282	Member (Subject Expert)	SR
10.	Dr. R. Gopinath ASP/CSE/KSRCT Mail ID: gopinath@ksrct.ac.in Mobile:9865978725	Members (Co-opted by the HoD)	—
11.	Dr.K.Poongodi Assistant Professor/CSE/KSRCT Mail ID: poongodik@ksrct.ac.in Mobile No: 9788680616		18/6/25
12.	Dr. R. Chithra Professor/CSE/KSRCT Mail ID: chithra@ksrct.ac.in Mobile No: 9994312842	Subject Expert	18/6/25
13.	Ms. J. Mythili Assistant Professor/CSE/KSRCT Mail ID: mythili@ksrct.ac.in Mobile No: 8838318567	Subject Expert	18/6/25
14.	Mr. S. Rajkumar Assistant Professor/CSE/KSRCT Mail ID: rajkumars@ksrct.ac.in Mobile No: 9003718103	Subject Expert	18/6/25
15.	Mr. S. Vadivel Assistant Professor/CSE/KSRCT Mail ID: vadivels@ksrct.ac.in Mobile No: 9790632171	Subject Expert	18/6/25
16.	Mr. K. Dineshkumar Assistant Professor/CSE/KSRCT Mail ID: dineshkumark@ksrct.ac.in Mobile No: 7708735602	Subject Expert	18/6/25

17.	M.S.Gokul Reg. No: 73772214134 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	18/6/25
18.	S.Gokul Reg. No: 73772214135 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	18/6/2025
19.	V.D.Dinesh Reg. No: 73772214130 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	18/6/2025
20.	D.Dhanushaya Reg. No: 73772214122 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	D. Dhanushaya 18.6.25

18/6/25

Date: 18-06-2025

BoS Chairman / CSE

CHAIRMAN
Board of Studies
Department of Computer Science and Engineering
K. S. Rangasamy College of Technology
Tiruchengode - 637 215, Namakkal-Dt

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of the Board of Studies Meeting

Department of Computer Science and Engineering

BoS Meeting No: 28 **Date: 18.06.25**

Venue: Online **Microsoft Teams Meeting Link:** https://msteams.link/J5SD

S. No	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
1.	**Curriculum of UG programmes (R2026)**	Mr. Illanchezhian Ganesamurthy	Suggested to include Block Chain Technology in the curriculum	It is decided to implement in R2026	Module Coordinator	R2026	It is resolved to submit to Academic Council for further approval
		Dr. Kanmani	Suggested to include Operating System before Advanced Java	It is decided to implement in R2026	Module Coordinator	R2026	
		Dr. Kanmani	Principles of Programming course may be offered in first and second semester	It is decided to implement in R2026	Module Coordinator	R2026	
2.	**Revision in the Curriculum and Syllabi of I to VIII semester R2022**	Dr. Prabha Selvaraj	Salesforce course may be offered as Project Based Course	It is decided to offer Salesforce as a Project Based Course	Module Coordinator	30-06-25 (R2022)	It is resolved to submit to Academic Council for further approval
3.	**Curriculum and Syllabi for Minor and Honour Degree programmes R2022, R2026**	All BoS members accepted the existing curriculum and syllabi for Minor and Honour Degree programmes R2022, R2026					
4.	**List of open elective courses and value-added courses offered in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester)**	BoS chairman presented the list of open elective and value added courses offered in 2024-2025 (Even Semester) and planned to offer in 2025-2026 (ODD Semester). **List of open elective courses offered in 2024-2025 (EVEN Semester)** - 60 CS L01 Object Oriented Programming - 60 CS L02 Angular JS - 61 CS L07 Java Programming - 60 CS L09 Salesforce - 60 CS L13 Industrial Cloud Practices **List of open elective courses planned to offer in 2025-2026 (ODD Semester)** - 60 CS L10 Scripting Languages - 60 CS L12 Generative AI - 61 CS L07 Java Programming **List of value-added courses offered in 2024-2025 (ODD Semester)** - Object Oriented Concepts in Python - Mobile App Development					

		List of value-added courses planned to offer in 2024-2025 (EVEN Semester) - Python Web Development with Django - Advanced Java Programming All BoS members accepted the same and it is resolved to submit to Academic Council for further approval
5.	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) Programme**	**I. Total No. of credits for the UG programme** 164 **II. Review of Curriculum for I to VIII semester Courses (R2026) and Recommendations** The draft curriculum of I to VIII Semester for R2026 (UG) is updated according to the suggestions given by BoS Members and it is resolved to submit to Academic Council for further approval. **III. Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs).** The proposed R2026 curriculum meet the requirements to pursue higher education, career guidance and startups & entrepreneurship by offering the following courses • Core Courses for GATE Preparation • Career Skill Development I, II, III, IV, & V • Start-ups and Entrepreneurship • Research Skill Development • Courses related to Sustainable Development Goals (SDGs) are introduced in R2026 **V. Curriculum meeting the requirements of NEP 2020** The curriculum is designed to meet the requirements of NEP 2020 with value added courses and self-learning courses **VI. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills** Yes, Curriculum and syllabi support student involvement in innovative, design & critical thinking abilities and their problem-solving skills by conducting the following • Codeathon • Smart India Hackathon • Project Contest • Project work • Innovative Courses Courses related to Sustainable Development Goals (SDGs) are introduced in R2026 **VII. Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories** • Incorporation of virtual laboratory – Nil • Industry supported courses and laboratories Infosys Springboard is a platform offered by Infosys by which students are insisted to complete the certification courses related to curriculum and latest technologies **VIII. Introduction of new courses** The following courses are proposed to offer as new courses • Hardware Acceleration • Database - snowflake and databricks, ELK, Log management and Analytics, No SQL, Dashboard & Visulaztions, DAta pipeline • NLP - Spacy libraries, Text processing • Transformer Architecture • GenAI / LLM concepts - Prompt Engineering, Orchestration, Model serving, Model building pipeline • Deep Tech

		• Voice Tech The BoS members approved the curriculum and it is resolved to submit to Academic Council for further approval
6.	**Discussion on Choice Based Credit System**	
	I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Even Semester) and planned to offer in 2025-26 (Odd Semester)	BoS chairman presented the list of NPTEL courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester). NPTEL courses offered in EVEN semester of 2024-25 1. Human Computer Interaction 2. Privacy and Security in Online Social Media 3. Introduction To Industry 4.0 And Industrial IoT 4. The Joy of Computing using Python 5. Talent Acquisition and Management 6. Privacy and Security in Online Social Media 7. Introduction To Industry 4.0 And Industrial IoT 8. Privacy and Security in Online Social Media 9. Introduction To Industry 4.0 And Industrial Internet Of Things 10. Human Computer Interaction (In English) NPTEL courses planned to offer in ODD semester of 2025-26 1. Cloud Computing 2. Cyber Security and Privacy 3. Google Cloud Computing Foundations 4. Introduction To Industry 4.0 And Industrial IoT 5. Programming in java 6. Python for Data Science 7. Machine Learning and Deep Learning- Fundamentals and Applications 8. Data Structure and Algorithms Using JAVA 9. Demystifying Networking 10. Ethical Hacking The BoS members accepted the courses and it is resolved to submit to Academic Council for further approval
	II. One credit course offered in 2024-2025 (Even Semester) and planned to offer by industry in 2025-26 (ODD Semester)	The BoS members approved the one credit courses planned to offer in 2025-26 (Odd Semester) • Python for data analytics • Data analysis in MATLAB
	III. Skill based courses offered in 2024-25(Even semester) and planned to offer 2025-26 (ODD Semester)	BoS chairman presented the list of Skill based courses offered in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester). Skill based courses offered in 2024-25(EVEN semester) • Career Skill Development – I • Career Skill Development – III • Comprehension Test Skill based courses planned to offer in 2025-26(ODD semester) • Career Skill Development – II • Career Skill Development – IV • Research Skill Development

<table>
<tr><td></td><td></td><td>The BoS members accepted the above courses and it is resolved to submit to Academic Council for further approval</td></tr>
<tr><td></td><td>IV. International Certification completed in 2024-25 (Even semester) and identification of certifications for the forthcoming semesters 2025-26 (ODD semester).</td><td>BoS Members suggested the following certification courses for the forthcoming semesters
To enhance technical knowledge and professional readiness, students are encouraged to explore the following certification courses
• AWS – Amazon Web Services
• OCJP – Oracle Certified Java Programmer
• ISTQB - International Software Testing Qualifications Board certification
• Brainbench certification
• Azure Certification
Students are also encouraged to do the International Certificates such as coursera, udemy and credits are given to the students for obtaining International Certificates.
All BoS members appreciated the credits given to the students for obtaining International Certificates</td></tr>
<tr><td></td><td>V. Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities.</td><td>In R2022, Mini projects are given for laboratory courses to make students to participate in Design Contests, Hackathon and Ideathon, etc.
The BoS members accepted and approved the same.</td></tr>
<tr><td></td><td>VI. Evaluation pattern for Integrated courses, Project based & System based courses</td><td>In integrated courses, Practical component is evaluated as a lab component.
For Project Based Courses, the following evaluation pattern is followed.
<table>
<tr><th colspan="2">Assessment 1 (Presentation)</th><th>Assessment 2 (CA Test)</th><th colspan="2">Assessment 3 (Model – Presentation)</th></tr>
<tr><th>Assessment Parameters</th><th>Marks</th><th>Marks</th><th>Assessment Parameters</th><th>Marks</th></tr>
<tr><td>Problem Identification</td><td>10</td><td rowspan="5">Questions from CO1 to CO4 As per CA Test Pattern</td><td>Innovation</td><td>30</td></tr>
<tr><td>Innovation</td><td>30</td><td>Clarity in Presentation</td><td>10</td></tr>
<tr><td>Solution for problem</td><td>10</td><td>Demo</td><td>30</td></tr>
<tr><td>Clarity in Presentation</td><td>05</td><td>Completion of Report</td><td>20</td></tr>
<tr><td>Viva</td><td>05</td><td>Viva</td><td>10</td></tr>
<tr><td>Total</td><td>60</td><td>60</td><td>Total</td><td>100</td></tr>
</table>
The BoS members accepted and approved the same.</td></tr>
<tr><td></td><td>VII. Internship details of students (2 nd , 3 rd & 4 th Year)</td><td>The BoS chairman presented the details of internships completed during the AY 2024-25. Students undergoing minimum 6-8 weeks of Internships in reputed industries for sharpening their skill sets
Internship completed during the AY 2024-25
<table>
<tr><td>Batch</td><td>No. of students completed internship</td></tr>
<tr><td>2021-25</td><td>86 (6-8 weeks)</td></tr>
<tr><td>2022-26</td><td>12(6 weeks), 56 (2 weeks)</td></tr>
</table></td></tr>
</table>

7. **Stakeholders feedback and action taken**

S.No.	Name of the Course	Name of stakeholder	Type of stakeholder	Feedback	Action Taken
1.	Software Engineering	HariharanBusiness Development ExecutiveEnthu Technology Solutions India Pvt. Ltd, Coimbatore	Alumni	Suggested to add a simple use-case example for Petri Nets to make it more relatable.	It is decided to implement in R2026
2.	Curriculum	Mr. G. Dhanusu	Alumni	Introducing aptitude training from the first year onwards would be highly beneficial. It would help students build a strong foundation early so by the second year they can start focusing more on developing their technical skills	It is decided to implement in R2026
3.	Web Development	Sakthivel Govinthan Founder & CEO Quick App Studio LLP	Employer	Suggested to add more topics on JavaScript such as • Modules (import/export) • JSON Handling • LocalStorage and SessionStorage • Fetch API / AJAX • DOM & BOM Manipulation	It is decided to implement in R2026
4.	Data Science	Pradeep Prakash	Employer	Suggested to add more topics such as • Big Data & Scalable Systems • Deep Learning Foundations • Data Ethics and Responsible AI	It is decided to implement in R2026
5.	Principles of Compiler Design	Kameshwaran K Software Developer Hikeon Technologies, Bangalore	Employer	Give more emphasize more on Compiler Optimization and Modern Compiler Construction Techniques, as these are crucial areas in the field and will better prepare students for current industry demands.	It is decided to implement in R2026
6.	Salesforce	Dr. P. Kaladevi Mr. R. Vijaysai	Faculty	Salesforce may be offered as Project Based Course	Incorporated in R2022
7.	Software Engineering	Dr.K.Poongodi	Faculty	Lab Exercises may be reordered	Incorporated in R2022
8.	Curriculum of R2026	Dr.G.Karthikeyan, Head/Gen. AI, GGS Info Services Pvt Ltd, Perungudi, Chennai - 97	Employer	**Course** / **Suggestion** Computational Problem Solving and C Programming — Suggested to integrate Computational Problem Solving as Part of C Programming Course Mathematical Courses — Suggested to add the following mathematical courses in curriculum: • Linear Algebra	It is decided to implement in R2026

	• Calculus • Probability and Statistics • Discrete Mathematics • R Programming
Physics for Computer Technology	Suggested to include Quantum Physics in the syllabus
Python Programming	Python Programming may be offered as core course during first or second year
Web Development and Advanced Web Development	Web Development may cover HTML, CSS and JavaScript. Advanced web development may be offered as Full Stack Development with the following topics: • React • Node JS • Django • Python • MongoDB
Data Structures	Data Structures may be offered as Data Structures with Java. The lab may be integrated into theory
Computer Networks	Computer Networks may be offered as integrated course and lab exercises may be implemented with NS2 / QualNet
Artificial Intelligence	Artificial Intelligence may be offered as Artificial Intelligence and Machine Learning (AIML)
Computer Architecture	IBM architecture may be referred
Design Thinking	Case Studies may be given from • Uber • Netflix • Swiggy • Zomato • Zepto
Cloud Computing	Cloud Computing may be offered as Integrated course with AWS/GCP

							Professional Elective	• Any two Professional Elective may be offered as Online courses. • Courses and Evaluation pattern has to be finalized	
४.	**Suggestions from IQAC**	• 3 Credits can be offered to students as waiver or additional credits upon completion of International Certificates • Prize winners of national level/state level competitions such as Hackathon, India Skills, etc. shall be offered with 3 credits either as waiver or additional credits • One course from NPTEL shall be made mandatory for all UG programmes All BoS members appreciated the above and it is resolved to submit to Academic Council for further approval							
५.	**Any other matters**								
	Suggestion on Examination Reforms (Question Paper Pattern – Internal and End Semester Examination, etc.,)	The internal and external examiners list are presented by BoS Chairman and all the members approved the same.							
	Suggestion to evaluate project-based courses	The BoS members accepted and approved the evaluation pattern for project based courses.							
	Increase the intake from 120 to 180	The BoS members accepted to increase the intake of UG course from 120 to 180.							

BoS Chairman **Dean Academics** **Dean Admin** **Principal**

	K.S.RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE - 637 215 (An Autonomous Institution, Affiliated to Anna University Chennai)	IT

28th Board of Studies Meeting

Date: 20.06.2025 Time: 09:00 am

Department	Information Technology		
Programme and Duration	B.Tech. (Information Technology), 4 years M.Tech.(Data Science), 2 years		
S. No.	Name , Designation & Address	Designation	Signature
1	Dr.R.Poonkuzhali, Professor & Head Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID: hodit@ksrct.ac.in Mobile No: 9597612312	Chairman	
2	Dr.J.Nithya, Professor, Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID: nithyaj@ksrct.ac.in Mobile No: 9443846125	Member (Subject Experts from the department)	
3	Sqn Ldr V R Sadasivam, Associate Professor, Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID: sadasivam@ksrct.ac.in Mobile No: 9688688555		
4	Dr.Sikappi Assistant Professor (Sr.Gr) Department of computer Applications, Coimbatore Institute of Technology Coimbatore Mobile No: +91 93632 28509	University Nominee	23.11.2024 Dr. S. SIKAPPI Nominee (Anna University)
5	Dr.S.Kanmani Professor in Department of IT Pondicherry Technological University, Puducherry Kanmani @ptuniv.edu.in Mobile No: +91 94432 06299	University Nominee	
6	Mr. Devendran Muthukumaramani Blockchain Technical Project Manager Casper Association, Chennai devconnects@gmail.com Mobile: +91 91766 61208	Meritorious Alumnus	--
7	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Ilan.ganesamurthy@gmail.com Mobile: +91 97909 87715	Industry Experts	
8	Dr.Prabha Selvaraj Professor Senior Grade 1 School of Computer Science and Engineering VIT -AP prabha.s@vitap.ac.in	External Subject Experts	

	Mobile: +91 98414 50282		
9	Dr. Jayakumar Vaithyashankar Asst.Professor (Senior Grade) Presidency University Bangalore E-mail: jayakumarksrit@gmail.com Mobile: +91 98941 49036	External Subject Experts	--
10	Dr.M.Sangeetha, Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: sangeetham@ksrct.ac.in Mobile No: 9994670017	Members (Co-opted by the HoD)	
11	Dr.C.Nallusamy, Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: nallusamyc@ksrct.ac.in Mobile No: 8754254805		
12	Ms.V.P.Dhivya, Associate Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: dhivyavp@ksrct.ac.in Mobile No: 9443696777	Subject Expert	
13	Mr.M.Thilakraj, Assistant Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: mthilakraj@ksrct.ac.in Mobile No: 9842815665	Subject Expert	
14	Ms.K.Mahalakshmi, Assistant Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: mahalakshmik@ksrct.ac.in Mobile No: 9944286457	Subject Expert	
15	Mr.R.T.Dineshkumar, Assistant Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: dhineshkumarrt@ksrct.ac.in Mobile No: 9952762214	Subject Expert	
16	Mr. P.Dineshkumar, Assistant Professor Department of Information Technology K.S.Rangasamy College of Technology Tiruchengode-637215. Mail ID: p.dineshkumar@ksrct.ac.in Mobile No: 9688837873	Subject Expert	

BOS Chairman / IT

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215

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

Minutes of the Board of Studies Meeting

Department of Information Technology (UG &PG)

ACADEMIC YEAR 2024-2025 (EVEN SEMESTER)

	BoS Meeting No:28			**Date:18.06.2025**		**Venue: IT Department Library**
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**
1.	**Curriculum of UG programmes (R2026)**	**Dr. S. Sikappi** . (University Nominee)	**NoSQL Databases**: Suggested to add either in DBMS or as an elective.	Can be included in a module in Database Management Systems course.	BoS Chairman	Submitted to Academic Council for further approval
			Introduce courses such as *Prompt Engineering*, *Blockchain Technologies*, *AI/ML for Everyone*, and *GPT-based Models* as NPTEL/1-credit options.	New courses can be added based on relevance.		
		Dr.S.Kanmani (University Nominee)	Electronic Design Tool can be given as one credit course. Introduce Cybersecurity, No-Code Platforms, Data Visualization Tools as open elective for other departments.	Can be offered in R-2026 curriculum.	BoS Chairman	Submitted to Academic Council for further approval
		Mr.Illanchezhian Ganesamurthy (Industry Member)	• Suggested including "GPU Programming / Hardware Acceleration (CUDA, PyTorch)" in future curriculum revisions.	Listed Courses can be added as electives in R2026	Module coordinator	Submitted to Academic Council for further approval
			• Suggested renaming the elective "XML and Web Services" to "Web Services" and updating the content with recent topics.	Can be renamed to "Web Services," and updated to include recent and relevant topics..		

		Dr.Prabha Selvaraj (Subject Expert)	Suggested to equip students with foundational understanding of Automata Theory or Compiler Design as Core Subject. • Theory of Computation (III or IV Semester) • Compiler Design (Elective Course)	Suggested Course may be included in R-2026 curriculum.	BoS Chairman	Submitted to Academic Council for further approval
2.	**Curriculum and Syllabi of PG programmes R2025**	**I Total No. of credits for the PG programme(M.Tech-Data Science) -72** **II Preparation for I to IV semester subjects R2025, Curriculum for R 2025 and Recommendations** ▪ Presented the proposed Curriculum and Syllabus **(R2025)** for **M.Tech(Data Science)** and it is approved **III Curriculum should improve innovative, design & critical thinking skills and problem-solving abilities of students** • The BoS members approved that the proposed Curriculum improves innovative, design & critical thinking skills and problem-solving abilities of students • Planned to introduce following core and new elective courses in **R2025** Curriculum. • **Core Courses:** • Data Science and Big Data Technologies • Introduction to Generative AI • Machine Learning Algorithms and Applications • Data Analysis and Visualization • Blockchain Applications in Data Science • Cloud AI and Edge Computing • Intelligent Systems and Deep Learning • **Elective Courses:** • DevOps for Data Science • Human-Computer Interaction and AI Design • Advanced Natural Language Processing • R Programming for Data Science • Deep Learning for Recommendation Systems • Reinforcement Learning • Advanced Recommender Systems • Data Engineering Tools and Techniques • Cloud Security for Data Science • IoT Analytics and Smart Infrastructure • Business Intelligence and Analytics • Social Media and Network Data Analytics • Cybersecurity in AI and ML Systems • Financial Analytics and Risk Management			

		• Edge Computing for Data Science • AI for Augmented and Virtual Reality • AI in Social Impact and Governance • Quantum Computing for Data Science The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.				
3.	**Revision in the Curriculum and Syllabi of I to VIII semester R2022.**	**I. 61IT503 Embedded Systems and IOT** **Suggested Additions – Theory** 1. Processor trends in embedded systems 2. Real time operating systems (RTOS) **II. 60 IT 703 – Cloud Computing** **Suggested Additions – Theory:** 1. Introduction to Commercial Cloud Platforms (e.g., Amazon AWS, Google Cloud) 2. Data Protection and Privacy Compliance (e.g., GDPR - Europe) 3. Sector-specific Data Compliance (e.g., HIPAA for Healthcare and Finance) 4. Introduction to Kubernetes (K8s) and Pod-based Architecture 5. CI/CD Pipelines and Their Role in Cloud DevOps **II. 60 IT 7P1 – Cloud Computing Laboratory** **Suggested Lab Exercises:** 1. Demonstration of horizontal and vertical scaling in cloud environments 2. Lab on storing and accessing assets (e.g., images) in the cloud via a web application				
4.	**Curriculum and Syllabi for Minor and Honour Degree programmes R2022, R2026.**	**Dr. S. Sikappi, AU Nominee**	Suggested to include honor degree in the domain of Data Science.	Honor degree can be offered in the domain of Data Science in R2026.	BoS Chairman	Submitted to Academic Council for further approval

5. List of open elective courses and value-added courses offered in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester)

I. ***List of open elective courses offered in 2024-25 (EVEN Semester)***

- Python Programming
- Data Analytics using R
- Power BI
- Android App Development

II. ***List of open elective courses planned to offer in 2025-2026 (ODD Semester)***

- Python Programming
- Power BI

III. ***List of value-added courses offered in 2024-25 (EVEN Semester)***

S.No	Name of the Course	Name of the Industry	No.of hours	Year / Sem
1.	Angular JS	Quick App Studio, Salem	32	III / VI
2.	Python Bootcamp: Skills for the Digital World		21	I / II

IV. ***List of value-added courses planned to offer in 2025-26 (ODD Semester)***

S.No	Name of the Course	Name of the Industry	No.of hours	Year / Sem
1.	IoT Product Design with Raspberry Pi and Python	Sacre Systems Private Limited,Coimbatore	30	III /V

6. Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes

I. **Total No. of credits for the UG Programme : 163**

II. **Review of curriculum for I to VIII semester UG Courses (R2026) and Recommendations**

- Either Theory of Computation or Compiler Design, should be in core
- No SQL database can be given as Elective
- Instead of Elective XML and Web services, title can be Web services and include recent topics
- Include Pytorch, hardware acceleration, TPU, GPU in the syllabus
- Electronic Design Tool can be given as one credit course

III. **Review of curriculum and Syllabi for I to IV semester PG Courses (R2025) and Recommendations**

- Elective – I - Artificial Intelligent and Internet of Things - can be separated to AI, IoT

<table>
<tr>
<td>7.</td>
<td>Discussion on Choice Based Credit System</td>
<td colspan="5">
I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Even Semester)
• Privacy and Security in online social media
• Human Computer Interaction
• Introduction to Database System
II. Self-study courses SWAYAM / NPTEL / MOOC courses planned in 2025-26 (ODD Semester)
• Mobile Virtual Reality and Artificial Intelligence
• Foundations of Virtual Reality
• Design and Implementation of Human computer interface
• Practical Cyber Security for Cyber Security Practitioners
III. Identification of International certifications for the forthcoming Semesters 2025-26
• (ODD Semester)
• Google Cloud - Associate Cloud Engineer
• AWS Certified Cloud Practitioner

IV. Internship details of students (2nd , 3rd & 4th Year)
<table>
<tr><td>Year</td><td>No. of Student</td></tr>
<tr><td>IV</td><td>130</td></tr>
<tr><td>III</td><td>46</td></tr>
<tr><td>II</td><td>6</td></tr>
</table>
</td>
</tr>
<tr>
<td rowspan="2">8.</td>
<td rowspan="2">Stake holders feedback and action taken report</td>
<td>Mr.Jeevanand Kesavan, Solution Architect, Ericsson,Bangalore (Employer)</td>
<td>Suggested to include Commercial Cloud Platforms, Cloud Databases, Cloud Database model, Introduction to Kubernetes and Pod based Architecture and Data Protection and Privacy Compliance, Sector Specific Data Compliance in Cloud Computing Course;
Suggested to add the following lab exercises in Cloud Computing Lab.
• Horizontal and Vertical Scaling
• Storing and accessing assets in the cloud
• Hands on with Docker</td>
<td>Cloud Computing course will be revised as per the suggestions in R2022.</td>
<td>Module coordinator</td>
<td>Submitted to Academic Council for further approval</td>
</tr>
<tr>
<td>Ms.Nalini Sacra Systems,Coimbatore (Employer`)</td>
<td>Suggested to include Processor trends in Embedded Systems and Real time operating systems (RTOS) as two modules.</td>
<td>The suggested modules will be updated in Embedded Systems and IoT in R2022.</td>
<td>Module coordinator</td>
<td>Submitted to Academic Council for further approval</td>
</tr>
</table>

		Ms.Haritha Harikumar Primus Global Technologies (Alumni)	Quantum Computing subjects can be included as new elective course in R2026 curriculum Need certificate courses for Networking like CCNA	Can be Considered.	BoS Chairman	Submitted to Academic Council for further approval
		Mr.M.Sivakumar CTS (Alumni)	Generative AI can be added as new elective courses in R2026 curriculum	Can be introduced	BoS Chairman	Submitted to Academic Council for further approval
		Mr.Periyasamy Rajendran Accenture,Chennai (Employer)	Suggested to include Data Engineering as Professional Elective Subject.Interdisciplinary Subjects can be introduced to do the Projects	May be Considered.	Module coordinator	Submitted to Academic Council for further approval
		Mr.Nithyanandham Dell Technologies (Employer)	Suggested to Introduce some Technical Certification and Language certification courses	Can be considered.	Module coordinator	Submitted to Academic Council for further approval
9.	**Suggestions from IQAC**	Suggested to focus on Value Added Courses on women empowerment like • Women Health • Human Rights - Coursera • Gender Equality through Inclusive Design - Coursera • Gender Equality and Women Empowerment – Udemy Suggested to focus on Minor Degree: • Offering a minor degree in Machine Learning, Data Science and artificial intelligence. • Offering a minor degree in Business and Entrepreneurship to the students wants to be an entrepreneur. It is resolved to submit the suggestions on Value Added Courses and Minor Degree Courses to Academic Council for further approval.				
10.	**Any other matters**	• MLOPs can be given as one Credit or Value-added course • Suggested to offer Green Computing and Green IT and technology sustainability courses. The internal and external examiners lists are presented by BoS Chairman and all the members approved the same.				

BoS Chairman **Dean-Academics** **Dean-Administration** **Principal**

	K.S. RANGASAMY COLLEGE OF TECHNOLOGY **TIRUCHENGODE - 637 215** (An Autonomous Institution, Affiliated to Anna University Chennai)	**AI&DS**

Department of Artificial Intelligence and Data Science

11th Board of Studies Meeting

(Period: Dec – 2024 to May- 2025)

Date: 18.06.2025 **Time: 9.30 AM**

Department	**Artificial Intelligence and Data Science**		
Programme and Duration	**B.Tech. (Artificial Intelligence and Data Science), 4 years**		
S. No.	**Name , Designation & Address**	**Position**	**Signature**
1.	Dr. C.Rajan Professor & Head Department of CSE(AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID : hodaiml@ksrct.ac.in Mobile No: 9865090665	Chairman	18/6/2025
2.	Dr.S.Sarumathi Professor /AI&DS K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID : Sarumathis@ksrct.ac.in Mobile No: 9443321692	Member (Subject Experts from the department)	18/6/25
3.	Dr. S. Sikappi Assistant Professor (Sr. Gr.) Department of Computer Applications Coimbatore Institute of Technology, Coimbatore. Mail ID:sikappi@cit.edu.in Mobile No: +91 93632 28509	Member (Outside Nominated by University)	S. Sikappi 18.06.25 Dr. S. SIKAPPI Nominee (Anna University
4.	Dr.S.Kanmani Professor in Department of IT, Puducherry Technological University Puducherry-605014. Mail ID:kanmani@ptuniv.edu.in Mobile No: +91 94432 06299		S.Kanmani
5.	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Mail ID: Ilan.ganesamurthy@gmail.com Mobile: 9790987715	Member (Meritorious Alumnus)	
6.	Mr. M. Devendran Blockchain Technical Project Manager, Casper Association, Chennai. Mail ID : devconnects@gmail.com Mobile: +91 91766 61208	Member (Industry Expert)	

7.	Dr. V. Jayakumar Assistant Professor (Senior Grade) Presidency University Bangalore. Mail ID:jayakumarksrit@gmail.com Mobile No: +91 98941 49036	Member (Subject Expert)	
8.	Dr.Prabha Selvaraj Professor Senior Grade 1, School of Artificial Intelligence and Data Science, Vellore Institute of Technology, Andhra Pradesh.. Mail ID:prabha.s@vitap.ac.in Mobile No: +91 98414 50282	Member (Subject Expert)	
9.	Mr. N.Giridharan, AP/AI&DS/KSRCT Mail ID: giridharan@ksrct.ac.in Mobile: 9688224088	Members (Co-opted by the HoD)	
10.	Mrs.I.Kalaimani AP/AI&DS/KSRCT Mail ID: kalaimani@ksrct.ac.in Mobile No: 9688224088		18/6
11.	Mr.S.Raja AP/AI&DS/KSRCT Mail ID: rajas@ksrct.ac.in Mobile No: 7502821440	Subject Expert	18/6
12.	Mr.J.Karthick Professor/AI&DS/KSRCT Mail ID: karthickj@ksrct.ac.in Mobile No: 8056408054	Subject Expert	18/06/25
13.	D.Narendhar Reg. No: 73772226135 Department of AI&DS K.S.Rangasamy College of Technology Tiruchengode-637215	Student (III year)	
14.	M.A.Vishal Reg. No: 73772226160 Department of AI&DS K.S.Rangasamy College of Technology Tiruchengode-637215	Student (III year)	
15.	P.M. Subicshaa Reg. No: 73772226149 Department of AI&DS K.S.Rangasamy College of Technology Tiruchengode-637215	Student (III year)	

Date: 18.06.2025

BoS Chairman

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

(An Autonomous Institution, affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)

Minutes of the Board of Studies Meeting

Department of Artificial Intelligence and Data Science

	BoS Meeting No	**11**		**Date:**	**18.06.2025**	**Venue:**	**IT Park (Online)**
S.No	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum and syllabi of I & II R2026**	Dr.S. Kanmani Professor, Department of IT, Puducherry Technological University. Puducherry. - Member (Outside Nominated by University)	In the Principles of Programming Language Course (70 AM 001),it is suggested to incorporate the use of at least one programming language to enhance students practical understanding of language concepts.	As per the suggestion, Python has been chosen for practical's and assignments.	Module Coordinator	I semester of R2026	Submitted to Academic Council for further approval.
2.	**Revision in the Curriculum and syllabi of – R2022**	The Members Suggested to follow the existing Syllabi					

3.	**Curriculum of R2026**	Dr. S. Sikappi Assistant Professor, Department of Computer Applications Coimbatore Institute of Technology, Coimbatore. - Member	In R2026, it is suggested that "Prompt Engineering" could be included in any of the Semesters.	As per the suggestion it is planned to introduce "Prompt Engineering" as a separate module in Artificial Intelligence Course.	Module Coordinator	Curriculum and Syllabi of R2026.	
4.	**Minor and Honor degree course curriculum in R2026**	The Honor degree for R2026 will be offered under the verticals "Computational Systems", "Data Technologies", "Multimodel Processing", "Network and Security" and "AI in Industry"					
5.	**List of open elective courses and value-added courses**	• It is planned to offer" Robotic Process Automation" as an Open Elective Course for 2025-2026 Odd semester and also it is planned to offer "Generative AI" as a Value-Added Course for 2025-2026 Even semester. • It is planned to offer "Virtual Reality Specialization" as a Value Added Course for 2025-2026 Odd Semester. The BoS Members approved the same and submitted it to Academic Council for further approval.					

6.	**Discussion on Curriculum of I to VIII Semester for R 2026 (UG)**	• Curriculum of I to VIII Semester for R2026 (UG) are finalized according to the suggestions given by BoS Members and it is resolved to submit the Syllabus with above changes to Academic council for approval.
		• Curriculum and syllabi meet the requirements to pursue higher education & career guidance and startups & entrepreneurship by offering the following courses
		  ◦ Core Courses for GATE Preparation
		  ◦ Career Skill Development I, II, III, IV, & V
		  ◦ Start-ups and Entrepreneurship
		  ◦ Research Skill Development
		The BoS Members approved the same and submitted it to Academic Council for further approval.					

7.	**Discussion on Choice Based**	The following NPTEL course were offered in 2024-2025 (Even Semester). 1. The Joy of Computing using Python 2. Business Intelligence & Analytics					

<table>
<tr><td></td><td>Credit System</td><td>3. Data Science
4. Data Analytics with Python
5. Python for Data Science
The following NPTEL courses for 2025-2026 Odd semester are planned to offer.
1. Introduction to Industry 4.0 and Industrial Internet of Things
2. Reinforcement Learning
3. Social Network Analysis
4. Business Ethics
5. Internet of Things
The following One credit courses for 2025-2026 Odd semester are planned to offer.
1. Application Development using LLM.
The following International certification courses for 2025-2026 Odd semester are planned to offer.
1. Git & GitHub Crash Course: Create a Repository from Scratch - Udemy
2. Web Development - Udemy
The following Life Skill Based courses for 2025-2026 Odd semester are planned to offer.
1. Career Skill Development II.
2. Career Skill Development IV.
The BoS Members approved the same and submitted it to Academic Council for further approval.</td></tr>
<tr><td>8.</td><td>Internship Details – (2024-2025) Even Semester</td><td>In the academic year (2024 – 2025) EVEN Semester, fifteen students from second year(2023 admitted batch) and thirty students from third year (2022 admitted batch) secured internships across various organizations.</td></tr>
<tr><td>9.</td><td>Stake holders feedback and action taken report</td><td>
<table>
<tr><th>S.No</th><th>Name of the Stakeholder</th><th>Name of the Course</th><th>Feedback</th></tr>
<tr><td>1</td><td>Sarath Sakthivel
Senior Software Engineer,
Accenture Technology</td><td>R2026 Curriculum</td><td>To remove the topics Instruction and its sequencing in module 1, Data Path and Control consideration in module 3 and Thread level Parallelism in module 5.</td></tr>
<tr><td>2</td><td>Jessica Collins J P,
Cloud support analyst,
Oracle Cerner Healthcare Solutions,
Bangalore.</td><td>R2026 Curriculum</td><td>To Consider including Python programming for AI, covering NumPy, Pandas, Matplotlib, and popular frameworks like TensorFlow, PyTorch, and OpenCV. Python's simplicity, rich libraries, and platform independence make it ideal for real-time AI implementation.</td></tr>
</table>
</td></tr>
</table>

		3	Bose A S, Product Engineer - Juspay Technologies, Bangalore.	R2026 Curriculum	To Consider balancing Semester 5 workload to enhance student engagement and understanding. Adding electives on Generative AI and emerging technologies can boost industry alignment and career readiness.
		4	Sudharsan SAP Analyst, Kaartech, Chennai	R2026 Curriculum	To offer is to include a capstone project or industry problem-solving assignment in the final semester. It helps students build portfolios that matter in interviews.
		5	Vigneshwaran SDE III, Walmart.	R2026 Curriculum	To consider adding an elective on AI Startups/Innovation.
		6	Jeyageetha.V. Trainee, Aspire Systems, Chennai.	R2026 Curriculum	To include Data Engineering topics—Big Data pipelines, ETL processes, and tools like Apache Spark.
		7	Anshika Singh. Data Analyst, Accenture, Bangalore	R2026 Curriculum	To include Prompt Engineering, fine-tuning models, and OpenAI APIs as part of the electives or project work.
10.	**Suggestions from IQAC**	Value Added Courses focusing on Women & Empowerment i) Gender Equality through Inclusive Design ii) Gender Equality and Women Empowerment through Udemy				
11.	**Any other matters**	The internal and external examiners lists are presented by BoS Chairman and all the members approved the same.				

BoS – Chairman **Dean – Academics** **Dean – Administration** **Principal**

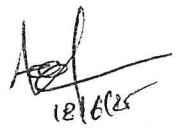
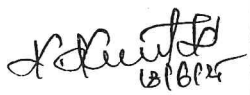
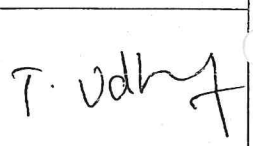
	K.S.RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE - 637 215 (An Autonomous Institution, Affiliated to Anna University Chennai)	CSBS

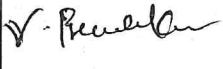
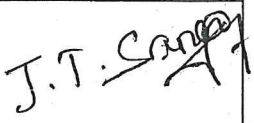
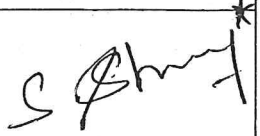
Department of Computer Science and Engineering
11th Board of Studies Meeting

(Period Jun – 2025 to Dec- 2025)

Date: 18.06.2025 **Time: 9.30 AM**

Department	Computer Science and Business Systems		
Programme and Duration	B.Tech (CSBS)		
S. No.	Name, Designation & Address	Position	Signature
1.	Dr. K. Sakthivel Professor & Head Department of CSBS K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID : hodcsbs@ksrct.ac.in Mobile No: 8825991413	Chairman	18/6/2025
2.	Dr. S. Sikappi Assistant Professor (Sr. Gr.) Department of Computer Applications Coimbatore Institute of Technology, Coimbatore. Mail ID: sikappi@cit.edu.in Mobile No: +91 93632 28509	Member (Outside Nominated by University)	18.06.25 Dr. S. SIKAPPI Nominee (Anna University
3.	Dr. S. Kanmani Professor in Department of IT, Puducherry Technological University Puducherry-605014. Mail ID:kanmani@ptuniv.edu.in Mobile No: +91 94432 06299		
4.	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Mail ID : Ilan.ganesamurthy@gmail.com Mobile: 9790987715	Member (Meritorious Alumnus)	
5.	Mr. M. Devendran Blockchain Technical Project Manager, Casper Association, Chennai. Mail ID : devconnects@gmail.com Mobile: +91 91766 61208	Member (Industry Expert)	
6.	Dr. V. Jayakumar Assistant Professor (Senior Grade) Presidency University Bangalore. Mail ID: jayakumarksrit@gmail.com Mobile No: +91 98941 49036	Member (Subject Expert)	
7.	Dr.Prabha Selvaraj Professor Senior Grade 1, School of Computer Science and Engineering, Vellore Institute of Technology, Andhra Pradesh.. Mail ID:prabha.s@vitap.ac.in Mobile No: +91 98414 50282	Member (Subject Expert)	

8.	Dr. M. Tamilarasi Associate Professor/CSBS/KSRCT Mail ID: tamilarasi@ksrct.ac.in Mobile No: 9750037023	Subject Expert	
9.	Dr. P. Manimaran Associate Professor/CSBS/KSRCT Mail ID: mainmaran@ksrct.ac.in Mobile No: 9894279891	Subject Expert	
10.	Mr. K. Karthikeyan Assistant Professor/CSBS/KSRCT Mail ID: karthikeyank@ksrct.ac.in Mobile No: 9952475246	Subject Expert	
11.	Mr. S. Vignesh Assistant Professor/CSBS/KSRCT Mail ID: vigneshs@ksrct.ac.in Mobile No: 9944820102	Subject Expert	
12.	Mrs. T. Udhaya Assistant Professor/CSBS/KSRCT Mail ID: udhaya@ksrct.ac.in Mobile No: 8675587180	Subject Expert	

13.	Kalaiyarasu M R Reg. No: 73772227118 Department of CSBS K.S.Rangasamy College of Technology Tiruchengode-637215	Student	
14.	Praveenkumar V Reg. No: 73772227137 Department of CSBS K.S.Rangasamy College of Technology Tiruchengode-637215	Student	
15.	Sangamithra J T Reg. No: 73772227143 Department of CSBS K.S.Rangasamy College of Technology Tiruchengode-637215	Student	
16.	Shalini S Reg. No: 73772227148 Department of CSBS K.S.Rangasamy College of Technology Tiruchengode-637215	Student	

Date: 18-06-2025

BoS Chairman / CSBS

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215

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

Minutes of the Board of Studies Meeting

Department of Computer Science and Business Systems

ACADEMIC YEAR 2024-2025 (EVEN SEMESTER)

	BoS Meeting No:11			**Date:18.06.2025**		**Venue:** CSE HoD Cabin (Online)
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**
1.	**Curriculum of UG programmes (R2026)**	**Nil**				
2.	**Revision in the Curriculum and Syllabi of I to VI semester (R2022) of UG Programmes**	**Nil**				
3.	**Minor and Honor degree course curriculum and syllabi in R2022 and R2018.**	**Nil**				
4.	**List of open elective courses and value-added courses**	The BoS Chairman presented the following Open electives & Value-Added Courses. Open Elective (2024-2025 Even Semester Offered) 1.60 AD L03 - Usability Design of Software Applications Open Elective (2025-2026 Odd Semester Planned) 1. 60 CB L02– Automation Testing Tools Value-added Courses Planned (2025-2026 Odd Semester) 1. Gaming and virtual Reality The members of BoS committee approved the same. These courses are forwarded to Academic council for further approval.				
5.	**Discussion on Curriculum of I to VIII Semester for R 2022 (UG)**	I. Total No. of credits for the UG programme - 164 II. Preparation for I to VIII semester subjects R2022 and Recommendations ➢ Presented the I to VIII semester Curriculum and it gets approved. III. Curriculum shall meet the Requirements to pursue higher education & Career guidance and startups & entrepreneurship & cross cutting issues ➢ The proposed Curriculum meet the requirements to pursue higher education & career				

guidance and start-ups & entrepreneurship by offering the following courses

- Career Skill Development I, II, III, IV, & V
- Start-ups and Entrepreneurship
- Research Skill Development

IV. Curriculum should improve innovative, design & critical thinking skills and problem solving abilities of students

➢ The proposed Curriculum improves innovative, design & critical thinking skills and problem solving abilities of students

V. Virtual Laboratories & Industry sponsored / Specific Laboratories

➢ Planned to use virtual laboratories for the following courses

- Data Structures Lab - http://vlabs.iitb.ac.in/vlabs dev/labs/dslab/
- Machine Learning Lab - http://vlabs.iitb.ac.in/vlabs dev/labs/dblab/

➢ Planned to introduce following core and new elective courses

Core:

- Cloud Application Development
- Data Analytics
- Software Testing and Automation

Electives:

- Android Application Development
- Swift Coding and App Development
- Conversational Systems
- Game Development
- Cryptocurrency and Blockchain Technologies
- Cyber Security
- Computer Vision
- Robotics Process Automation
- Cognitive Science
- Exploratory Data Analysis
- Recommender Systems
- Neural Networks and Deep Learning
- Natural Language Processing
- Virtual and Augmented Reality

VI. Additional courses offered

- Nil

The members of BoS meeting approved the Curriculum. It is resolved to submit it to Academic Council for further approval.

6.	**Discussion on Choice Based Credit System**	I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Even semester) and planned to offer in (ODD semester) of 2025-26 ➢ Self-study courses(NPTEL,MOOC) (2024-2025, Even Semester) • Introduction to internet of things • Business Intelligence and Analytics • Problem Solving Through Programming in C • Introduction to Industry 4.0 and Industrial Internet of Things ➢ Self-study courses (NPTEL,MOOC) proposed (2025-2026, Odd Semester) • Privacy and Security in Online Social Media • Introduction to Internet of Things • Introduction to Industry 4.0 and Industrial Internet of Things II. One credit course offered in 2024-25 (Even semester) and planned to offer by industry in 2025-26(Odd semester) ➢ One credit course offered in 2024-25 (Even semester) • Nil ➢ One Credit Course planned to offer(2025-26 Odd Semester) • Augmented Reality • Amazon Web Services • Automation Using Raspberry PI III. Skill based courses offered in 2024-25(Even semester) and planned to offer 2025-26(Odd semester) ➢ Skill based Courses offered in 2024-25(Even semester) • Mern Stack • Career Skill Development I • Career Skill Development III • Universal Human Values ➢ Skill based Courses planned to offer 2025-26(Odd semester) • Career Skill Development II • Career Skill Development IV IV.Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc. • Computer Programming Laboratory - Codeathon • Data Structures Laboratory - Codeathon • Design Thinking - Designathon • Machine Learning Laboratory - Hackathon • Usability Design of Software Applications Lab – Designathon

V. Evaluation pattern for Integrated courses, Project based & System based courses

- BoS members approved that integrated courses, Practical component and theory evaluated with equal weightage mark.

VI. Internship details of the students (2nd , 3rd & 4th Year)

- Students undergoing 6/8 weeks of training /doing projects in industry / academic institutions of repute shall be given 3 credits and one elective course in 7 th or 8 th semester shall be waived.

S.No	Year	Company Name
1	IV	**TOTAL: 24** • **Nulinz(3)** • **Rooteche(2)** • **Statix Pro(2)** • **Hacktify Cyber Security(1)** • **Synovers(3)** • **Fox Three Technologies(2)** • **QuGates(1)** • **Branzone(1)** • **SkySphere Technologies(3)** • **Virtuospark(6)**
2	III	**TOTAL: 17** • **Ether Services(3)** • **Cube AI Solutions Pvt Ltd(4)** • **Nithra Apps(3)** • **Grow Technologies(4)** • **Synovers Technologies(3)**
3	II	**TOTAL: 08** • **TechNuke(3)** • **Servion Global Solutions(1)** • **Ramboll India Private Limited(1)** • **Virtuospark(2)** • **Lantrasoft(1)**

7. Stake holders feedback and action taken

S.No.	Name of Stake Holder	Action Taken	Course Name (changes are introduced)
1.	Mr. Sarathkumar Senior associate consultant Infosys limited	**In R2022 -** Topics like open API standards have been included.	60 CB 701 – Cloud Application Development
2.	Mrs.R.Dharani Capgemini Salem	**In R2022 -** Tools like Power BI and Tableau are used for statistical analysis.	60 CB 7P1 – Data Analytics Lab

8. Suggestions from IQAC

- BoS Members suggested to focus on Value Added Courses on women empowerment like
  - Women Health
  - Human Rights - Coursera
  - Gender Equality through Inclusive Design - Coursera
  - Gender Equality and Women Empowerment - Udemy
- Suggested to focus on Minor Degree:
  - Offering a minor degree in Machine Learning, Data Science and artificial intelligence to students of non-circuit branches like Mechatronics, Mechanical, EEE, ECE, TXT.
  - Offering a minor degree in Business and Entrepreneurship to the students wants to be an entrepreneur.

9. Any other matters

- The internal and external examiners lists are presented by BoS Chairman and all the members approved the same.

Dr.K.Sakthivel
Chairman – BoS
Computer Science and Business Systems (UG)

Dean-Academics

Dean-Admin

Principal

	K.S. RANGASAMY COLLEGE OF TECHNOLOGY **TIRUCHENGODE - 637 215** (An Autonomous Institution, Affiliated to Anna University Chennai)	**AI&DS**

Department of Artificial Intelligence and Data Science

11th Board of Studies Meeting

(Period: Dec – 2024 to May- 2025)

Date: 18.06.2025 **Time: 9.30 AM**

Department	**Artificial Intelligence and Data Science**		
Programme and Duration	**B.Tech. (Artificial Intelligence and Data Science), 4 years**		
S. No.	**Name , Designation & Address**	**Position**	**Signature**
1.	Dr. C.Rajan Professor & Head Department of CSE(AIML) K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID : hodaiml@ksrct.ac.in Mobile No: 9865090665	Chairman	18/6/2025
2.	Dr.S.Sarumathi Professor /AI&DS K.S.Rangasamy College of Technology Tiruchengode-637215 Mail ID : Sarumathis@ksrct.ac.in Mobile No: 9443321692	Member (Subject Experts from the department)	18/6/25
3.	Dr. S. Sikappi Assistant Professor (Sr. Gr.) Department of Computer Applications Coimbatore Institute of Technology, Coimbatore. Mail ID:sikappi@cit.edu.in Mobile No: +91 93632 28509	Member (Outside Nominated by University)	S. Sikappi 18.06.25 Dr. S. SIKAPPI Nominee (Anna University
4.	Dr.S.Kanmani Professor in Department of IT, Puducherry Technological University Puducherry-605014. Mail ID:kanmani@ptuniv.edu.in Mobile No: +91 94432 06299		S.Kanmani
5.	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Mail ID: Ilan.ganesamurthy@gmail.com Mobile: 9790987715	Member (Meritorious Alumnus)	
6.	Mr. M. Devendran Blockchain Technical Project Manager, Casper Association, Chennai. Mail ID : devconnects@gmail.com Mobile: +91 91766 61208	Member (Industry Expert)	

7.	Dr. V. Jayakumar Assistant Professor (Senior Grade) Presidency University Bangalore. Mail ID:jayakumarksrit@gmail.com Mobile No: +91 98941 49036	Member (Subject Expert)	
8.	Dr.Prabha Selvaraj Professor Senior Grade 1, School of Artificial Intelligence and Data Science, Vellore Institute of Technology, Andhra Pradesh.. Mail ID:prabha.s@vitap.ac.in Mobile No: +91 98414 50282	Member (Subject Expert)	
9.	Mr. N.Giridharan, AP/AI&DS/KSRCT Mail ID: giridharan@ksrct.ac.in Mobile: 9688224088	Members (Co-opted by the HoD)	
10.	Mrs.I.Kalaimani AP/AI&DS/KSRCT Mail ID: kalaimani@ksrct.ac.in Mobile No: 9688224088		18/6
11.	Mr.S.Raja AP/AI&DS/KSRCT Mail ID: rajas@ksrct.ac.in Mobile No: 7502821440	Subject Expert	18/6
12.	Mr.J.Karthick Professor/AI&DS/KSRCT Mail ID: karthickj@ksrct.ac.in Mobile No: 8056408054	Subject Expert	18/06/25
13.	D.Narendhar Reg. No: 73772226135 Department of AI&DS K.S.Rangasamy College of Technology Tiruchengode-637215	Student (III year)	
14.	M.A.Vishal Reg. No: 73772226160 Department of AI&DS K.S.Rangasamy College of Technology Tiruchengode-637215	Student (III year)	
15.	P.M. Subicshaa Reg. No: 73772226149 Department of AI&DS K.S.Rangasamy College of Technology Tiruchengode-637215	Student (III year)	

Date: 18.06.2025

BoS Chairman

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

(An Autonomous Institution, affiliated to Anna University, Chennai, Approved by AICTE, New Delhi)

Minutes of the Board of Studies Meeting

Department of CSE (Artificial Intelligence and Machine Learning)

	BoS Meeting No	7		Date:	18.06.2025	Venue:	IT Park (Online)
S.No	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum and syllabi of I & II R2026**	Dr.S. Kanmani Professor, Department of IT, Puducherry Technological University. Puducherry. - Member (Outside Nominated by University)	In the Principles of Programming Language Course (70 AM 001), it is suggested to incorporate the use of at least one programming language to enhance students practical understanding of language concepts.	As per the suggestion, Python course shall be offered with assignment and practical sessions.	Module Coordinator	Immediate R2026 Curriculum and syllabi	Submitted to Academic Council for further approval.
2.	**Revision in the Curriculum and syllabi of – R2022**	The members suggested to proceed with the existing curriculum and syllabi					

3.	**Curriculum of R2026**	Dr. S. Sikappi Assistant Professor, Department of Computer Applications Coimbatore Institute of Technology, Coimbatore. - Member (Outside Nominated by University)	In R2026, it is suggested to introduce "Prompt Engineering" in any of the Semesters.	As per the suggestion it is planned to introduce "Prompt Engineering" as a separate module in Artificial Intelligence Course.	Module Coordinator	Immediate Curriculum and Syllabi of R2026.	Submitted to Academic Council for further approval.
		Mr.M. Devendran, Blockchain Technical Project Manager, Casper Association, Chennai. - Member (Co-opted External)	In R2026, it is suggested that "Ethics related to AI" could be offered.	As per the suggestion, it is planned to introduce "Ethics related to AI" as an elective course.			
4.	**Minor and Honor degree course curriculum in R2022**	The Honor degree for R2022 offered under the verticals "Data Science", "Full Stack Development", "Cyber Security and Data Privacy", "Creative Media", "Emerging Technologies" and "Artificial Intelligence and Machine Learning".					

5.	**List of open elective courses and value-added courses**	• It is planned to offer Intelligent Chatbot Development as an Open Elective Course for 2025-2026 Odd semester and also it is planned to offer "Data Science in Agritech" as a Value-Added Course for 2025-2026 Even semester. The BoS Members approved the same and submitted it to Academic Council for further approval.

6.	**Discussion on Curriculum of I to VIII Semester for R 2026 (UG)**	• Curriculum of I to VIII Semester for R2026 (UG) are finalized according to the suggestions given by BoS Members and it is resolved to submit the Syllabus with above changes to Academic council for approval.
		• Curriculum and syllabi meet the requirements to pursue higher education & career guidance and startups & entrepreneurship by offering the following courses
		  • Core Courses for GATE Preparation
		  • Career Skill Development I, II, III, IV, & V
		  • Start-ups and Entrepreneurship
		  • Research Skill Development
		The BoS Members approved the same and submitted it to Academic Council for further approval.

7.	**Discussion on Choice Based Credit System**	The following NPTEL course were offered in 2024-2025 (Even Semester). 1. Design Thinking 2. Understanding Incubation and Entrepreneurship 3. The Joy of Computing using Python 4. Business Ethics 5. Computer Vision and Image Processing – Fundamentals and Applications The following NPTEL courses for 2025-2026 ODD semester are planned to offer. 1. Introduction to Industry 4.0 and Industrial Internet of Things 2. Cyber Security & Privacy 3. Social Network Analysis 4. Business Ethics 5. Computer Vision and Image Processing The following One credit courses for 2025-2026 ODD semester are planned to offer. 1. Application Development using LLM. The following International certification courses for 2025-2026 ODD semester are planned to offer. 1. Git & GitHub Crash Course: Create a Repository from Scratch - Udemy 2. Web Development - Udemy The following Skill Based courses for 2025-2026 ODD semester are planned to offer. 1. Career Skill Development course. The BoS Members approved the same and submitted it to Academic Council for further approval.

8.	**Internship Details – (2024-2025) Even Semester**	The BoS Chairman presented the details of internship in 2024-25. The members of BoS appreciated the same.

9. **Stake holders feedback and action taken report**

S.No	Name of the Stakeholder	Name of the Course	Feedback
1	Sarath Sakthivel Senior Software Engineer, Accenture Technology	R2026 Curriculum	To remove the topics Instruction and its sequencing in module 1, Data Path and Control consideration in module 3 and Thread level Parallelism in module 5.
2	Jessica Collins J P, Cloud support analyst, Oracle Cerner Healthcare Solutions, Bangalore.	R2026 Curriculum	To consider including Python programming for AI, covering NumPy, Pandas, Matplotlib, and popular frameworks like TensorFlow, PyTorch, and OpenCV. Python's simplicity, rich libraries, and platform independence make it ideal for real-time AI implementation.
3	Bose A S, Product Engineer - Juspay Technologies, Bangalore.	R2026 Curriculum	To consider balancing Semester 5 workload to enhance student engagement and understanding. Adding electives on Generative AI and emerging technologies can boost industry alignment and career readiness.
4	Sudharsan SAP Analyst, Kaartech, Chennai	R2026 Curriculum	To offer is to include a capstone project or industry problem-solving assignment in the final semester. It helps students build portfolios that matter in interviews.
5	Vigneshwaran SDE III, Walmart.	R2026 Curriculum	To consider adding an elective on AI Startups/Innovation.
6	Jeyageetha.V. Trainee, Aspire Systems, Chennai.	R2026 Curriculum	To include Data Engineering topics—Big Data pipelines, ETL processes, and tools like Apache Spark.
7	Anshika Singh. Data Analyst, Accenture, Bangalore	R2026 Curriculum	To include Prompt Engineering, fine-tuning models, and OpenAI APIs as part of the electives or project work.

10.	**Suggestions from IQAC**	Value Added Courses focusing on Women & Empowerment i) Gender Equality through Inclusive Design ii) Gender Equality and Women Empowerment through Udemy iii) Sustainable development goals.
11.	**Any other matters**	The internal and external examiners lists are presented by BoS Chairman and all the members approved the same.

BoS - Chairman

CHAIRMAN
Board of Studies
Department of Computer Science and Engineering (AIML)
K. S. Rangasamy College of Technology
Tiruchengode - 637 215, Namakkal-Dt.

Dean – Academics

Dean – Administration

Principal

	K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215 (An Autonomous Institution, affiliated to Anna University, Chennai and Approved by AICTE, New Delhi)	BT

DEPARTMENT OF BIOTECHNOLOGY

The meeting of the Board of Studies (BoS) was held on as given below

Name of the Body	:	Board of Studies
Meeting No.	:	28
Date	:	20.06.2025 (Friday)
Time	:	11:00 am
Venue	:	Online MS Teams

List of Members :

S.No.	Name of the Member	Designation	Representation	Signature
1.	Dr. B.Kalpana	Head, Department of Biotechnology, KSRCT	Chairman- BOS	
2.	Dr. M. Arivanandhan	Professor, Centre for Nanoscience and Technology, Anna University, Chennai - 600 025.	University Nominee	
3.	Dr. P. Selvamani	Professor, Department of Pharmaceutical Technology, College of Engineering (BIT) Tiruchirappalli - 620 024	Subject Expert	
4.	Dr.C. Kabilan	Managing Director M/s. Primas Bioscience Private Limited, Plot No: G-19, 4th Cross Street5th Loop Road, SIPCOT Industrial Growth Center, Perundurai – 638 052. Mobile No: 09447332373	Industrial expert	Primas Bioscience Private Limited

5.	Mr.M.Vasudevan	Business unit Head M/s. Cytiva - Hyclone Life Sciences Solutions India Private Limited Galileo Building, EPIP 122 (Phase II), Whitefield Road John F. Welch Technology Centre, Hoodi, Village, Bengaluru, Karnataka 560 066	Meritorious Alumnus	
6.	Dr. M. Nithya	Assistant Professor - KSRCT	BOS - Coordinator	
7.	Dr. Puniethaa Prabhu	Professor, KSRCT	BOS-Member	
8.	Dr. S.Sidhra	Professor - KSRCT	BOS-Member	
9.	Dr. S. Poornima	Associate Professor - KSRCT	BOS-Member	
10.	Dr. K. Syed Zameer Ahmed	Associate Professor - KSRCT	BOS-Member	
11.	Dr. B. Mythili Gnanamangai	Associate Professor - KSRCT	BOS-Member	
12.	Ms.R.Krishnaveni	Assistant Professor - KSRCT	BOS-Member	
13.	Mr.R.Arulvel	Assistant Professor	BOS-Member	
14.	Mr.R.Manoj	Student Member	IV Year BT	
15.	Ms. M Sedarshini	Student Member	IV Year BT	
16.	Ms.Lakshitha E K A	Student Member	III Year BT	

BoS Chairman

Chairman - BOS

AGENDA for BoS Meeting

S.No.	Agenda
1.	Curriculum of UG programmes (R2026).
2.	Curriculum and Syllabi of PG programmes (R2025).
3.	Revision in the Curriculum and Syllabi of I to VI semester (R2022) of UG Programmes and I to IV PG Programmes.
4.	Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026).
5.	List of open elective courses and value-added courses offered in 2024-2025 (Even Semester) and planned to offer in 2025-2026 (Odd Semester)
6.	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes i. Total No. of credits for the UG programme ii. Curriculum for I to VIII semester Courses (R2026) and Recommendations iii. Curriculum for I to VI semester Courses (R2025) and Recommendations iv. Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs). v. Curriculum meeting the requirements of NEP 2020. vi. Curriculum & syllabi to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills. vii. Incorporation of Virtual Laboratory & Industry sponsored/supported courses and laboratories viii. Introduction of new courses

7.	Discussion on Choice Based Credit System i. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even Semester) ii. One credit course offered in 2024-2025 (ODD Semester) and planned to offer in 2024-225 (Even Semester) iii. Skill based courses offered in 2024-25(ODD semester) and planned to offer 2024-25 (Even Semester) iv. International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters. v. Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities. vi. Evaluation pattern for Integrated courses, Project based & System based courses vii. Internship details of students (2nd , 3rd & 4th Year)
8.	Stake holders feedback and action taken report
9.	Suggestions from IQAC
10.	Any other matters • Suggestion on Examination Reforms (Question Paper Pattern – Internal and End Semester Examination, etc.,) • Suggestions and permission to start new programmes in thrust areas

BoS Chairman

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of Board of Studies Meeting

Department of Biotechnology (UG & PG)

	BoS Meeting No	28		Date:	20.06.2025	Venue:	M.S.Teams
S.No	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum of UG Programmes (R2026)**	Dr. Arivanandhan	Emphasized maintaining uniform credit distribution, and ensuring lab components meet academic norms maintaining consistency in credit allocation .	Credit allocations for lab-based courses will be standardized .	Module Coordinator	Immediate	Submitted for the approval in Academic Council
			Pointed out that the existing curriculum lacked practical/lab components in core subjects, which needed addressing to align with UGC/AICTE norms.	All lab structures will be revised to comply with AICTE/UGC norms.	Module Coordinator	Immediate	Submitted for the approval in Academic Council
			Appreciated the incorporation of Internship in the eighth semester of the curriculum as it will be useful for the slow learners to avail the extra credit and also insisted to incorporate more industrial Internship Stated that the syllabus revision follows the Academic Council's resolution and the NEP 2020 guidelines.	The syllabus revision will be carried out in accordance with the resolutions of the Academic Council and in alignment with the principles of the	Module Coordinator	Immediate	Submitted for the approval in Academic Council

				National Education Policy (NEP) 2020. ensuring flexibility, multidisciplinary learning, and holistic student development.			
			Suggested to change the Course name of Pollution and its Management to Biowaste Management	The course title will be changed to **"Biowaste Management"** and the Syllabus content will be updated	Module Coordinator	Immediate	Submitted for the approval in Academic Council
			Pointed out that for Integrated courses the credit may be given as 5.	If required, integrated courses that combine both theory and practical components will be assigned a total of 5 credits	Module Coordinator	Immediate	Submitted for the approval in Academic Council
		Dr. Arivanandhan and Mr.Vasudevan	Suggested to Include the Biopharmaceutical Technology to the elective pool as the course Bioprocess course covers most of the content that is similar to Biopharmaceutical Technology	"Biopharmaceutical Technology" will be added in the elective. It will be designed to complement but not duplicate the Bioprocess course.	Module Coordinator	Immediate	Submitted for the approval in Academic Council

		Dr. Arivanandhan and Dr.Selvamani	Advised integrating design thinking labs in each semester to encourage creativity, innovation, and problem- solving capabilities which helps in paper publication	Design Thinking Lab will be implemented in each semester, encouraging innovation and creative problem-solving through project-based learning	Module Coordinator	Immediate	Submitted for the approval in Academic Council
		Dr. Selvamani	Advised adding foreign language courses, as well as self-learning or self-paced NPTEL/SWAYAM online courses	Foreign language courses will be introduced. Students will be encouraged to complete NPTEL/SWAYAM courses for elective/self-learning credits.	BoS Chairman	Immediate	Submitted for the approval in Academic Council
			Suggested including practical components for industry-preferred programming languages and tools	Practical sessions on Python, R, MATLAB, and other relevant tools will be incorporated into bioinformatics and computational courses.	Module Coordinator	Immediate	Submitted for the approval in Academic Council
			Emphasized on aligning elective courses with ongoing research trends and job market requirements	Elective Courses will be updated to reflect current industry demands	Module Coordinator	Immediate	Submitted for the approval in Academic

				and research developments. Inputs will be gathered through industry feedback.			Council
			Recommended the inclusion of self-learning courses to foster independent and lifelong learning habits among students.	"Self-Learning Module" will be introduced. allowing students to earn credits through MOOCs, independent projects, or online certifications.	BoS Chairman	Immediate	Submitted for the approval in Academic Council
			Suggested to incorporate foreign languages in the curriculum was proposed to improve global employability and cross-cultural competence.	Based on the recommendation foreign language courses will be involved in the curriculum	BoS Chairman	Immediate	Submitted for the approval in Academic Council
			State-level Naan Mudhalvan skill development courses to align with evolving industry demands.	Based on the recommendation Naan Mudhalvan skill development courses will be implemented	BoS Chairman	Immediate	Submitted for the approval in Academic Council
			Suggested to provide more personality Development and Foreign language courses from NPTEL	More personality Development and Foreign language courses from NPTEL will be recommended for the students	BoS Chairman	Immediate	Submitted for the approval in Academic Council

		Mr. Vasudevan	Insisted to keep Cell Culture Technology instead of Fermentation Technology regarding Honours, in Vertical 1	Cell Culture Technology will be replaced for Fermentation Technology	Module Coordinator	Immediate	Submitted for the approval in Academic Council
			Suggested to incorporate Upstream processing in the curriculum as only Downstream processing alone provided and also he suggested to keep separate processing for Mammalian cells and Microbial cells	A course on Upstream Processing will be added. Separate modules will be created for mammalian and microbial cell processing techniques.	Module Coordinator	Immediate	Submitted for the approval in Academic Council
		Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert)	Members emphasized to offer Biomedical Instrumentation,Biosensor , Biotechnology for sustainable Development,Bioplastics,Biofuel,Bioenergy and IT Technology Interface courses as Open elective	As per the suggestion by the members few courses will be offered as Open Electives	Module Coordinator	Immediate	Submitted for the approval in Academic Council
		Dr.C. Kabilan	Insisted to provide the internship with the minimum duration of 1 month	As per the suggestion a minimum internship duration of 1 month will be implemented.	BoS Chairman	Immediate	Submitted for the approval in Academic Council

2.	**Curriculum and Syllabi of PG programmes (R2025)**	Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert)	As it is DBT GATB Syllabus ,the same Curriculum and Syllabi of PG programmes retained.	The BoS members approved the R2026 curriculum.	Module Coordinator	Immediate	Submitted for the approval in Academic Council
3.	**Revision in the Curriculum and Syllabi of I to VIII semester (R2022) of UG Programmes and PG Programmes**	Dr. Arivanandhan, (University Nominee)	Suggested to change the title of Module 5 in Downstream Processing or to change the content in the unit 5 of Downstream Processing Course	The title of Module 5 in Downstream Processing has been changed	Module Coordinator	VII semester of R2022	Submitted for the approval in Academic Council

		Dr. Arivanandhan	Suggested to keep Machine Learning content in the Course AI for Biotechnology and asked to reduce few topics in Unit 5	Machine Learning content in the Course AI for Biotechnology has been included	Module Coordinator	VII semester of R2022	Submitted for the approval in Academic Council
		Dr.C. Kabilan	Suggested to reframe the content of the course 60 BT E34 – Pharmacology and Toxicology	The content of the course 60 BT E34 – Pharmacology and Toxicology has been changed	Module Coordinator	VII semester of R2022	Submitted for the approval in Academic Council
		Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert)	The BoS members suggested to mention as "Any ten experiments" in all the laboratory courses with 10 experiments each, focusing on advanced techniques and removing outdated experiments for PG	As per the members suggestion it has been mentioned	Module Coordinator	I,II,III and IV Semesters of R2022	Submitted for the approval in Academic Council
4.	**Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 & R2026)** **Discussion and Suggestion** The proposed Curriculum and Syllabi for Honour Degree programmes (R2022 & R2026) were presented by BoS Chairman.The list of courses are as follows. ➢ 60 BT E16 /70 BT E16 - Food Biotechnology ➢ 60 BT E26 /70 BT E26 - Organic Farming for Sustainable Agriculture ➢ 60 BT E36 /70 BT E36 - Biotechniques in crop improvement ➢ 60 BT E46 /70 BT E46 - Agricultural Biotechnology ➢ 60 BT E56 /70 BT E56 - Biodiversity and its conservation ➢ 60 BT E57 /70 BT E57 - Crop Production Technology						
5	**List of open elective courses and value- added courses** **List of open elective course offered in Even Semester (2024-2025)** ➢ Agricultural Engineering **List of open elective courses planned to offer in Odd Semester (2025-2026)** ➢ Pollution and its Management **List of value- added course offered in Even Semester (2024-2025)**						

	Next Generation Sequencing (NGS) by Genotypic Technology **List of value- added courses planned to offer in Odd Semester (2025-2026)** ➢ MAT Lab ➢ Clinical Testing of Samples ➢ Kinetic modelling in Reaction Engineering ➢ Virtual Highthroughput Drug Screening **Action taken** Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert) appreciated the list of open elective courses and value- added courses suggested by BoS Chairman and submitted for the approval in Academic Council Meeting.
6.	**Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes** **i. Total No. of credits for the UG programme** The Total No. of credits for the UG programme was proposed to be 162. **ii. Curriculum for I to VIII semester Courses (R2026) and Recommendations** **Discussion and Suggestion** ➢ Dr. Arivanandhan ,Dr.Selvamani ,Mr.Vasudevan and Dr.Kabilan have gone through the proposed curriculum and approved by BoS Members. **iii. Curriculum for I to IV semester Courses (R2025) and Recommendations** Dr. Arivanandhan, Dr. Selvamani Dr.C. Kabilan & Mr.Vasudevan approved the PG curriculum **iv. Curriculum and syllabi to support progression to higher education, career guidance, Startups & Entrepreneurship; cross cutting issues and Sustainable Development Goals (SDGs).** Dr. Arivanandhan, Dr. Selvamani & Dr.C. Kabilan appreciated that the Biotechnology Department Curriculum and Syllabus support the progression to higher education, career guidance, Startups & Entrepreneurship; cross cutting issues and Sustainable Development Goals (SDGs). **v. Curriculum meeting the requirements of NEP 2020.** Dr. Arivanandhan, Dr. Selvamani & Dr.C. Kabilan appreciated that the Biotechnology Department Curriculum and Syllabus satisfies the requirements of NEP 2020. **vi. Curriculum and syllabi to support student involvement in innovative, design; critical thinking abilities and their problem-solving skills.** Dr. Arivanandhan, Dr. Selvamani & Dr.C. Kabilan appreciated that the Biotechnology Department Curriculum and Syllabus supports the student involvement in innovative, design,critical thinking abilities and their problem-solving skills.

	vii. Incorporation of Virtual Laboratory, Industry sponsored/supported courses and laboratories Incorporating virtual biotechnology labs, industry-sponsored biotechnology courses, and industry-supported biotechnology laboratories provides biotechnology students with valuable real-world insights and skills. Dr. Arivanandhan and Dr. Selvamani appreciated that the Biotechnology Department incorporating Virtual Laboratotry and Industry sponsored Laboratories in association with Primas Biosciences,Perundurai. **viii. Introduction of new courses** **Introduction of New Courses** Semester I - 70 CS 001 Problem Solving and Python Programming Semester I- 70 CS 0P1 Problem Solving and Python Programming Laboratory Semeter III - 70 BT 306 Analytical Techniques in Biotechnology 70 BT 3P2 Analytical Techniques Laboratory Semester IV - 70 BT 402 Basic Industrial Biotechnology Semester VI- 70 BT 602 Bioprocess and Bioreactor Engineering Semester VIII - 70 BT 703 Preclinical and clinical regulatory affairs
7.	**Discussion on Choice Based Credit System**
I	The **list of Self-study courses** planned to offer in even semester of 2024-25 are as follows: ➢ Introduction to Good Clinical Practices ➢ DNA D Coded ➢ Introduction to Forensic Science ➢ Algae Biotechnology Online certification courses were appreciated by BoS members and it is submitted for the Academic Council for further approval.
II	**One credit course planned to offer by industry in Even of 2024-25** **Discussion / Suggestion** Dr. Arivanandhan. (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert) approved the one credit course to be offered in Even Semester namely Basics of Biopython (Module 2) and it is submitted for the Academic Council for further approval.

III	SWAYAM/NPTEL/MOOC courses offered in Odd Semester and planned to offer in Even of 2024-25 **List of NPTEL courses planned to offer in Odd Semester of 2025-26** ➢ Drug Delivery Prinicples and Engineering ➢ Experimental Biotechnology ➢ Introduction to Developmental Biology ➢ Environmental Biotechnology **List of NPTEL courses offered in Even of 2024-25** ➢ Human Physiology ➢ Bioengineering: An Interface with Biology and Medicine ➢ Microbial Biotechnology ➢ Enzyme Sciences and Technology ➢ Medicinal Chemistry ➢ Waste to Energy Conversion ➢ Food Science and Technology Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert) approved the list of NPTEL fered in Even Semester and it is submitted for the Academic Council for further approval.
8.	**Stake holders feedback and action taken** **Discussion and Suggestion** 1.Mr. Moovin S.(Alumni and Industrialist) suggested to Copy Right and Trade mark topic is already there in unit 1. to reduce syllabus content. The following topics are removed· Unit 1 -Constitutional Protection of Property and IP Unit 4 - Patent Searching – Patent Cooperation Treaty 2.Mr.Karamchand R (Employer) suggested to remove the mechanism of phagocytosis process from unit 3 3.Mr.Venkataraman V (Alumni and Industrialist) suggested to set the first two or three units for covering basic concepts, algorithms and methodologies in AI/ML. Next two units for AI application in Biotechnology and the last unit for case studies Mr.Ajay Shinde (Employer) believed that the topics covered in the syllabus are broad and may be a bit difficult for the biotech students unless they have been exposed to any related courses previously. So, the topics can be simplified to specific portions of AI that are more suitable for tackling biotech/life science-related problems. 4.Mr.Raghu Rangasamy adviced thatGame Playing-Adversarial search, Games, mini-max algorithm, optimal decisions in multiplayer games, Problem in Game playing" may not be suitable to be include.Even though game-based problem solving is applicable in biotech, the context is not clear in these topics and also suggested to distribute hrs according to the topics allocated for each unit

		4.Ms.Sumitha Ramachandran and Ms. Shanmathi Chenniangiri (Alumni) suggested to introduce examples, case studies, or short sessions that directly link AI concepts to biotechnology applications. A short hands-on demonstration or a simple introduction to tools like TensorFlow, bioinformatics databases (such as PDB, GenBank), and their integration with AI would make the course more industry-oriented and exciting for students. 6.Dr.Ronaldo Anuf suggested the following for the course 60BT E42: Clinical Trials and Health Care Policies in Biotechnology: In unit 1- NDCT 2019, Indian regulatory relevance added, Unit 2 - emphasized humanistic & economic outcomes, Unit 3 - Added audit preparedness, mock inspections, and Indian Ethics Committee processes, Unit 4- Renamed to "Clinical Trial Documentation and Data Handling"; added Excel-based CRF filling, basic analysis and Unit 5- Added Ayushman Bharat, budget impact assessment, Indian law highlights Revised Practical 1. Drafting a Clinical Trial Protocol 2. Preparing Informed Consent Form 3. Randomization using Excel or online tools 4. CRF format creation and mock data entry using Excel 5. Data analysis using Excel (mean, charts, chi-square) 6. ICER model using Excel formulas 7. Mock Ethics Committee submission 8. Policy proposal drafting (case-based) **Action Taken** Based on the suggestion from stakeholders,the content of the courses are revised and submitted to academic council for approval.
9.	Suggestions from IQAC	**Value Added Courses focusing on women's empowerment** i) Women Health & Human Rights through Coursera ii) Gender Equality through Inclusive Design through Coursera iii) Gender Equality and Women Empowerment through Udemy **Minor Degree:**a) Offering a minor degree in Machine Learning, Data Science and Artificial Intelligence to Students.
10.	Any other matters	➢ The BoS members approved the proposed assessment methodology, which includes a blend of direct (80%) and indirect (20%) measures. ➢ Dr. Kabilan suggested to permit minimum of one month Industry oriented Internship may be given for students and On Duty may be provided for students during class duration for Internship

BoS Chairman

Dean/Academics

Dean/Admin

Principal

K. S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE -637 215

(An Autonomous Institution, affiliated to Anna University, Chennai and Approved by AICTE, New Delhi)

ATTENDANCE OF 28th BOARD OF STUDIES

Department : Textile Technology
Programme : UG & PG Textile Technology (4 Years)
Venue : Mechanical Board Room
Date and Time : 19.06.2025 and 10.00 A.M.

	Name, Designation & Address	Position	Signature
	Dr. G. Karthikeyan Professor & HOD Dept. of Textile Technology K. S. Rangasamy College of Technology Mobile No.: 9842840809 Email Id : karthikeyang@ksrct.ac.in	Chairman	
	Dr. M. Arivanandhan Professor Centre for Nanoscience and Technology Anna University Chennai – 600 025. E-Mail id : arivucz@gmail.com Mobile No. : 7401182819	University Nominee	19/6/25
3.	**Dr. V. Ramesh Babu** Associate Professor & Head, Department of Textile Technology, Kumaraguru College of Technology, Saravanamaptti, Coimbatore- 641049. E-Mail : salemramesh@yahoo.com Mobile : 9944000055	Subject Expert nominated by Academic Council	
4.	**Dr.J.C.Sakthivel** Associate professor Department of Textile Technology PSG College of Technology Coimbatore E-Mail id : jcs.textile@psgtech.ac.in Mobile No. : 9894431230	Subject Expert nominated by Academic Council	J C Sakthi 19.6.25
5.	**Mr. P. Karnan** Regional Sales Manager, Rieter India Private Limited Avinashi Road, Coimbatore – 641 014. Email Id: karnan.palanisamy@rieter.com Mobile No.: 9787725232	Industrial Expert nominated by Academic Council	19/06/2025

No.	Name, Designation & Address	Position	Signature
6.	**Mr.S. Arunprasad** Managing Director, Aishwariyaa Packaging Tirupur E-Mail id : arunvgb@gmail.com Mobile No. : 9500544205	Alumnus	19.06.2025
7.	**Dr. M.B. Sampath** Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : sampath@ksrct.ac.in	Member (Subject Expert from the department)	19/06/2025
8.	**Dr. K. Saravanan** Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : saravanan.k@ksrct.ac.in		19/6/25
9.	**Dr. N. Sukumar** Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : sukumar@ksrct.ac.in		19/6/25
10.	**Mr. G. Devanand** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : devanandg@ksrct.ac.in		19/06/25
11.	**Dr. C. Premalatha** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : premalatha@ksrct.ac.in		19/6/25
12.	**Dr. K.R. Nandagopal** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : nandagopal@ksrct.ac.in		19/06/2025
13.	**Mr. P. Maheswaran** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : pmaheswaran@ksrct.ac.in		19/6/25

No.	Name, Designation & Address	Position	Signature
4.	**Mr. M. Arunkumar** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : arunkumar@ksrct.ac.in		19/06/25
15.	**Mr. A.S. Subburaayasaran** Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : subburaayasaran@ksrct.ac.in		19/06/25
16.	Mr. N Sekar F/o. Ms. S. R. Arun III – Textile	Parents	
17.	Ms. K. Rajalakshmi III - Textile	Student Member	
18.	Mr. S. Kamalraj III - Textile		
19.	Ms. G. Sathish Kumar III - Textile		

BoS - Chairman

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of the 28th Board of Studies Meeting
Department of Textile Technology (UG & PG)

BoS Meeting No : 28
Date : 19.06.2025
Venue : Mechanical Board Room

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
1	Curriculum of UG Programmes (R2026).	Dr. J.C. Sakthivel (Subject Expert)	• I Semester papers remain unchanged as approved by S&H BOS. • Offer HPF as an elective; include Technical Textiles in VI/VII Sem and Nonwoven Technology in V Sem.	Revise as per recommendations	MC/CD	Continuous	Submitted to Academic Council Approval
		Dr. M. Arivanandhan (University Nominee)	• Add functional content in Advanced Finishing; ensure 5 Mathematics papers; split TAQE into Textile and Apparel Testing; add a one-credit or Basics of Textile Technology course in II Sem.				
		Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	• Replace AMT-II with Financial Management; remove Specialty Textiles; revise Functional Textiles to Functional Finishing				

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
2	Curriculum and Syllabi of PG Programmes (R2025).	Dr. M. Arivanandhan (University Nominee Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	• Align curriculum with other universities by including research-oriented and advanced subjects like Advanced Fibres, and revise Specialty Textiles as Smart and Technical Fibres. • Avoid repetition of Quality Evaluation from UG; include relevant lab work on Industrial/Technical Textiles and Quality Evaluation. • In Semester II, replace Clothing Comfort with 3D or Multifunctional Fabrics; include Statistical Techniques & DoE Lab; in Semester III, replace Smart Functional Textiles with Advanced Finishing/Composite Coated/Technical Textile Processing papers.	Implement in PG R2025 syllabus.	MC/CD	Immediate	
3	Revision in the Curriculum and Syllabi of I to VIII Semester (R2022) of UG Programmes and PG Programmes.	Dr. M. Arivanandhan (University Nominee Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	• Add higher-order thinking skills in COs. • Product development-based Experiments may be included.	Implement in upcoming revisions.	MC/CD	Continuous	
4	Curriculum and Syllabi for Minor and Honour Degree Programmes (UG: R2022 & R2026; PG: R 2025).	External Members	• Members suggested to Include the subject "Lean and Six Sigma Concepts for Textiles and Apparel Industry" instead of the Subject Garment Production Machinery and equipment's.	Implement in UG R2022 syllabus.	MC/CD	Immediate	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
5	List of open elective courses and value-added courses offered in 2024-2025 (even Semester) and planned to offer in 2025-2026 (ODD Semester)	External Members	• Basics of Textile Technology & Surface Embellishment (Completed) • Introduction to Fashion Design and Associated Quality Professional (Planned)	Approved and Rollout	MC/CD	Immediate	
6	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Dr. M. Arivanandhan (University Nominee	UG : 164 Credits PG : 72 Credits.	Approved and Rollout	MC/CD	Continuous	
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Mr S Arun Prasad (Alumni)	**ii. Curriculum for I to VIII Semester Courses (R2026) and Recommendations** • Offer HPF as an elective instead of a core paper in the IV semester. • Move Technical Textiles to the VI or VII semester and Nonwoven Technology to the V semester. • Retain only Apparel Manufacturing Technology – I and replace AMT-II with a Financial Management paper. • Remove Specialty Textiles from the curriculum and update Advanced Finishing Technology with content related to functional textiles.	• Implement in upcoming revisions.	MC/CD	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Dr.G. Karthikeyan (BoS Chairman) Dr. K.Saravanan (Subject Expert)	**iii. Curriculum for I to IV Semester Courses (R2025) and Recommendations** • Rename specialty textile subject and avoid repeating UG-level content in Quality Evaluation. • Include fibre morphology and SEM topics in Advanced Fibres; ensure the syllabus load is appropriate. • In the spinning advances paper, restructure with Fibre Preparation (Unit I) and Yarn Manufacturing (Unit II); remove "Yarn Innovation," retain Hybrid Spinning, and add automation, piecing, transportation, and short staple content. • In Advanced Fibres, include topics like fibre morphology and SEM analysis; ensure the content load is appropriate. • For the Advances in Spinning paper, restructure units: Unit I – Fibre Preparation, Unit II – Yarn Manufacturing; remove "Yarn Innovation," retain Hybrid Spinning, and include topics like automation, piecing, transportation, and short staple spinning.	• Implemented in PG R2025 syllabus.	MC/CD	Immediate	
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. M. Arivanandhan (University Nominee Dr.N.Sukumar (Subject Expert) Dr. Bharani Murugesan (Subject Expert)	**iv. Curriculum and Syllabi to Support Progression to Higher Education, Career Guidance, Startups & Entrepreneurship & SDGs**	**Career Guidance:** o Career Skill Development courses are included across semesters to enhance employability.	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
		Mr S Arun Prasad (Alumni)		○ As per the Regulation the Curriculum is incorporated with Inplant training and Internship. **Start ups & Entrepreneurship:** ○ The Curriculum is designed with dedicated courses like Startups and Entrepreneurship. ○ Opportunities for hands-on projects in innovation labs and industry-sponsored initiatives. **SDGs:** ○ In addition Curriculum focus on sustainability through courses like Sustainable Textile Processing and Environmental Science.			
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. M. Arivanandhan (University Nominee Mr S Arun Prasad (Alumni	**v. Curriculum Meeting the Requirements of NEP 2020** Members suggested to incorporate • Flexibility in electives, enabling multidisciplinary learning. • Introduction of Design Thinking and Critical Thinking courses. • Focus on life skills and universal human values for holistic development	As per R 2022 & R 2026, we have courses like 1. Professional Electives, 2. Design Thinking and Design Innovation Courses 3. The Curriculum also has UHV, Tamils and Technology.	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**vi. Curriculum & Syllabi to Support Student Involvement in Innovative, Design & Critical Thinking Abilities and Problem-Solving Skills** • Courses like Design Thinking, Fabrication & Reverse Engineering Lab, and Innovation Labs encourage creativity. • Research projects and capstone projects in the final year foster problem-solving skills.	Approved and Rollout	--	Continuous	
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Mr S Arun Prasad (Alumni)	**vii. Incorporation of Virtual Laboratory & Industry Sponsored/Supported Courses and Laboratories** • Industry-Supported Labs: Apparel Manufacturing Lab and Textile Testing Lab collaborate with industry leaders for hands-on training.	Implement changes progressively.	MC	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes	Dr. M. Arivanandhan (University Nominee Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert) Mr S Arun Prasad (Alumni)	**viii. Introduction of New Courses UG R 2026** • Artificial Intelligence and Machine Learning in Textile • Speciality Textiles	Implement changes progressively.	MC	Continuous	
7	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**i. Self-Study Courses (SWAYAM/NPTEL/MOOC) Offered in 2024-25** **Even Semester: NPTEL (2024-25):** • Design Thinking-III year • New Spinning Technologies-II year **Odd Semester: NPTEL (2025-26):** • **Proposed Courses:** • Supply Chain Management and Logistics – IV year • Science and Technology of Weft and Warp Knitting – III Year • Principles Of Combing, Roving Preparation and Ring Spinning – II Year • Design Thinking -III year	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**ii. One Credit Courses Offered in 2024-2025** **Even Semester (2024-25):** • **Completed One Credit Courses:** • Quality and Process Control for Textile Manufacturing – SGS **Odd Semester (2025-256):** • **Proposed One Credit Courses:**	Approved and Rollout	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
			• Eco friendly Dyeing • Process Control in the Garment Industry • Information Technology in Apparel and Fashion Industry				
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**iii. Skill-Based Courses Offered in 2024-25** **Even Semester (2024-25):** • **Proposed Skill-Based Courses:** • Textile Chemical Processing I • Technical Textiles II **Odd Semester (2025-26):** • **Proposed Skill-Based Courses:** • Garment Manufacturing Technology I • Knitted Technology	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	External and Internal Members	**iv. International Certification in 2025-26 and Identification of Future Certifications** **Even Semester (2024-25):** NIL **Odd Semester (2025-26):** • **Planned Certifications:** • Lean Six Sigma in Textiles. • IoT and Smart Textiles Certifications	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	**v. Roll Out of Laboratory Classes to Encourage Design Contests, Hackathons, and Ideathons** • **Proposed Enhancements:** • **Innovation Labs:** • Textile CAD Lab • **Contests Participation:** • Garment Construction Laboratory II	Approved and Rollout	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
	Discussion on Choice Based Credit System	External and Internal Members	**vi. Evaluation Pattern for Integrated, Project-Based & System-Based Courses** • Members suggested to adhere to college norms.	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	External and Internal Members	**vii. Internship Details of Students (2nd, 3rd & 4th Year)** Provide mentorship from industry professionals for final-year projects.	The institution's "One Industry, One Faculty" approach provides student mentorship, encouraging 15-25% to undertake industry projects.	PC	Continuous	
8	Stakeholders' Feedback and Action Taken Report.	Stakeholder	• Suggested to remove outdated content, integrate automation technologies, and focus on sustainability practices.	Review and update curriculum R2022, R2025(PG), R2026(UG).	MC	Continuous	
9	Suggestions from IQAC.	IQAC	• Proposed Curriculum modernised to align with industry practice and sustainability	Implement changes progressively.	MC	Continuous	
10	Any Other Matters.	Internal and External Members	**Question Paper Reforms - Internal and End Semester Examination** Reforms in examination question papers for both internal assessments and end-of-semester exams can be implemented in accordance with directives from the Head of the Institute, ensuring consistency across all branches. **NCC as additional Credit \Waiver in R2026, R2022 & R2025 (PG)** Members suggested adhering to the directions provided by the Head of the Institute since they are the same for all branches.	Implement changes progressively.	BoS Chairman	Continuous	

BoS Coordinator **HoD-Textile** **Dean Academics** **Dean Admin** **Principal**

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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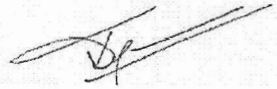
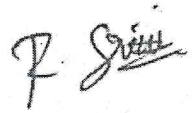
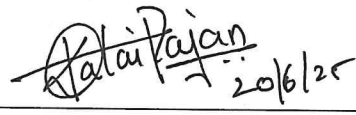
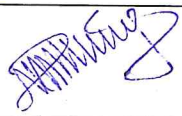
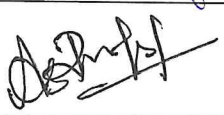
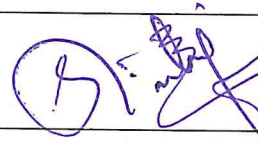
Department of Food Technology (UG &PG)

Attendance Sheet

The 28th Meeting of the Board of studies of the Food Technology was held on 20th June 2025 at 02.00 p.m. at FT Meeting Hall and the following members were present:

S. No.	Name	Designation	Designation & Institution	Signature
1.	Dr. J. Philip Robinson	Professor & Head Department of Food Technology K.S.Rangasamy College of Technology Tiruchengode-637215 Tamil Nadu Mail ID: hodft@ksrct.ac.in	Chairman	
2.	Dr. M. Arivanandhan	Professor, Centre for Nanoscience and Technology, Anna University, Chennai - 600 025. Mail: arivucz@gmail.com Mobile: +91 74011 82819	University Nominee	
3.	Dr. T. V. Ranganathan,	Professor, Department of Food Processing Technology, Karunya University, Karunya Nagar, Coimbatore. Mail: ranganathan@karunya.edu Mobile: 9487846976	Academic Experts	
4.	Dr. Jayan Moses	Assistant Professor and In-Charge, Computational Modeling and Nanoscale Processing Unit, National Institute of Food Technology, Entrepreneurship and Management, Pudukkottai Road, Thanjavur - 613 005. Mail: moses.ja@iifpt.edu.in Mobile: 9750968433	Academic Experts	

5.	Dr. Sathiyamoorthy	Managing Director, Moon Foods, Tiruchengode, Namakkal. Mobile : 9710454060	Industrial Expert	
6.	Mr. Srinivasan R	Senior Officer - QA/QC, CP Norfolk India Pvt Ltd, Chittoor. Mail: srinivasan.ram@cpnorfolk.in Phone: 8144936800	Alumni Member	
7.	Mr. P. Kalai Rajan	Assistant Professor/ BOS In-charge	Internal Members	
8.	Dr. K. Prabha	Associate Professor		
9.	Dr. P. Muthusamy	Professor		
10.	Dr. K. Balasubramani	Associate Professor		
11.	Dr. A. S. Ruby Celsia	Assistant Professor		
12.	Mr. S. Nithishkumar	Assistant Professor		

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Minutes of the Board of Studies Meeting

Department of Food Technology (UG &PG)

The Board of Studies meeting held on 20.06.2025 with the Greeting and welcome by the Board of Studies Chairman. The Chairman of BOS introduces the members to the forum.

The Chairman of Board of Studies explained the academic process followed in the Department which includes the completed Regulation, Teaching and Learning process, funded projects received and the major achievement of the Department.

The detailed discussion made by the Internal and external members as given in the agenda are given below:

BoS Meeting No			28	Date: 20.06.2025		Venue: Online Mode	
S.No	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum of UG programmes (R2026)**	Dr. M. Arivanandhan (University Nominee)	Suggested to replace "C Programming" with "Python Programming" in Semester I.	Python Programming introduced in Semester I.	BoS Coordinators	Completed	Submitted to Academic Council
			Recommended integration of interdisciplinary courses with practical emphasis.	Interdisciplinary labs and integrated course formats included.			
			Suggested adding outcome-based education (OBE) alignment and mapping of course outcomes.	OBE alignment ensured in all course structures and syllabi.			
		Dr. Jayan Moses (Subject Expert)	Proposed inclusion of "AI in Food Technology" in Semester VII.	"AI in Food Technology" introduced in Semester VII as a core paper.	BoS Coordinators	Completed	Submitted to Academic Council
			Recommended expanding computational tools in	Computational Laboratory for Food Technology added			

			practicals.	in Semester V.			
			Suggested that electives incorporate simulation/data-driven learning.	Simulation and case-based modules to be embedded in elective subjects.			
		Dr. T. V. Ranganathan (Subject Expert)	Recommended shifting "Food Biochemistry" to Semester IV.	"Food Biochemistry" moved to Semester IV.	BoS Coordinators	Completed	Submitted to Academic Council
			Suggested that "Fluid Mechanics" be taught as theory-only.	Fluid Mechanics restructured as theory-only; practical covered in Unit Operations Lab.			
			Suggested vertical grouping of electives for domain clarity.	Electives grouped into 7 verticals (Bakery, Sustainability, Biotech, etc.).			
		Dr. Sathiyamoorthy (Industry Expert)	Recommended inclusion of Startups and Entrepreneurship training.	"Startups and Entrepreneurship" added as a mandatory course in Semester V.	BoS Coordinators	Completed	Submitted to Academic Council
			Proposed greater inclusion of HACCP, GHP, FSSAI documentation skills.	Food safety documentation covered in food analysis and safety-related electives.			
			Suggested replacing Sensory Evaluation Lab with skill-based labs.	Skill-based labs such as Design Thinking, Dairy and Confectionery Labs introduced.			
		Mr. Srinivasan R (Alumni)	Recommended SOP writing, audit training, and QA/QC practicals.	Concepts included in Food Analysis Lab and QA/QC-centric electives.	BoS Coordinators	Completed	Submitted to Academic Council
			Suggested retaining Career Skill Development modules.	CSD I–IV modules retained in all semesters.			
			Suggested lab alignments with core subjects across semesters.	Labs realigned with revised theory papers (e.g., Baking, Dairy, Biochemistry).			

2.	**Curriculum and Syllabi of PG programmes (R2025)**	**Mr.** Srinivasan. R **(Alumni)**	Member suggested to rename "Food Storage Engineering" as "Food Storage Engineering and Pest Control"	"Food Storage Engineering" title is changed as "Food Storage Engineering and Pest Control" on the suggestions received from the alumni	Course Coordinator	Completed	Submitted to academic council for the approval
		Dr.T.V. Ranganathan **(Subject Expert)**	Member suggested to offer Trends in Food packaging system and Advanced Food Packaging systems Laboratory in semester - I	Trends in Food packaging system and Advanced Food Packaging systems Laboratory is shifted semester – I	Module Coordinator	Completed	Submitted to academic council for the approval
		Dr. Sathiyamoorthy **(Industry Expert)**	Member suggested to Offer Food Safety and Quality Control in semester - III	Food Safety and Quality Control is shifted to semester - III	Module Coordinator	Completed	Submitted to academic council for the approval
		Mr. Srinivasan. R **(Alumni)**	Member suggested to add Food Analysis and Instrumentation theory & laboratory in semester - II	Food Analysis and Instrumentation theory & laboratory is added in semester - II	Department Research Coordinator	Completed	Submitted to academic council for the approval
		Dr. Jayan Moses **(Subject Expert)**	Member suggested to offer Food Rheology in Professional Elective course	Food Rheology is shifted to Professional Elective course	Department Research Coordinator	Completed	Submitted to academic council for the approval

3.	**Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes**	Dr. Sathiyamoorthy (Industry Expert), Dr. T.V. Ranganathan (Subject Expert)	Incorporate Case Studies in Core Courses	Add case study-based assignments in core courses like Food Safety, Processing Technology, and Packaging. Faculty to identify relevant industry scenarios for analysis.	Course Coordinator	Completed	Submitted to academic council for the approval
		Dr. M. Arivanandhan (University Nominee), Dr. Jayan Moses (Subject Expert)	Introduce Pedagogical Innovations (Flipped Classrooms, Peer Learning)	Conduct pedagogy training for faculty. Trial flipped learning in 1–2 subjects from next semester. Monitor student performance.	Academic Coordinator		
		Dr. Sathiyamoorthy (Industry Expert), Mr. Srinivasan. R (Alumni)	Increase Industrial Exposure through Plant Visits	Schedule at least one industrial visit per semester. Collaborate with nearby industries through MoUs.	Course Coordinator		
		Dr. T.V. Ranganathan (Subject Expert), Dr. Sathiyamoorthy (Industry Expert)	Food Safety Training & Certification	Make FSSAI FoSTaC certification mandatory before VI semester. Arrange in-house or third-party certification drives.	Academic Coordinator		

		Dr. Jayan Moses (Subject Expert), Mr. Srinivasan. R (Alumni)	Regular Workshops and Hands-on Training Sessions	Organize 1 workshop per semester on trending industry skills (e.g., Sensory, Bakery, Quality Analysis). Utilize external experts and alumni.	Event Coordinator		
		Dr. M. Arivanandhan (University Nominee), Dr. Jayan Moses (Subject Expert)	Promote Seminar and Conference Participation	Allocate marks for student participation/presentation. Set up a committee to identify suitable conferences and funding support.	Course Coordinator		
4.	**List of open elective courses and value-added courses**	**List of open Elective courses planned to offer in 2024-2025 (Even)** • 60 FT L04 - Food Supply Chain Management **List of value-added courses planned to offer in 2024-2025 (Even)** • HACCP and Food Safety Testing • Sensory Evaluation of Food • MINITAB & MATLAB • Food safety and quality regulations • International FSSAI and Fostac Certification					Submitted to academic council for the approval
5.	**Discussion on Curriculum of I to VIII Semester for R 2022 (UG)**	**The list of suggestion were made in the R2022 UG Curriculum:** • Members suggested ensuring uniform credit distribution and contact hours across semesters. • Integrated courses such as "Food Microbiology for Food Technologist" and "Food Safety and Quality Regulation" were recommended to continue due to positive learning outcomes. • Recommended to reinforce industry-specific training modules and align course content with FSSAI and Codex guidelines. • Encouraged continued inclusion of project-based learning, minor projects, and internships. • Approved reorganization of open electives to enhance interdisciplinary learning and choice flexibility.					Submitted it to Academic Council for further approval

6.	Discussion on Choice Based Credit System						
I	**Self-study courses SWAYAM/NPTEL/MOOC courses**		The BoS member suggested to include the following self-study courses. • Introduction to Food Technology • Food Science and Technology (IIT KGP) • Novel Technologies for Food Processing (IIT KGP) • Dairy and Food Products (IIT KGP) • Food Packaging Technology (KUFOS) • 21st Century Food Tech Innovations (Workshop)	Online certification courses are appreciated by BoS members	Bos Chairman	Nil	It is submitted for the Academic Council for the further approval
II	**One credit course**		The BoS member suggested to include the following one credit courses. • Food Laws and Labeling Regulations (FSSAI + Codex) • Nutraceuticals and Functional Foods • Cold Chain Logistics and Management • Applications of AI in Food Processing	--Nil--	Bos Chairman	Nil	It is submitted for the Academic Council for the further approval

			• Clean Label and Sustainable Packaging				
III	**Skill based courses International Certification**		The BoS member suggested to include the following Skill based courses. • Food Product Formulation and Standardization • Quality Testing and Instrumentation in Food Industry • Barcoding, Traceability & Digital Tools in Food Supply • Food Waste Valorization and Byproduct Utilization The BoS member suggested to include the following International Certification courses. • HACCP Certification (Level 2/3) • ISO 22000:2018 Food Safety Management • FSSC 22000 Lead Auditor Course • Food and Nutrition Certificate	--Nil--	Bos Chairman	Nil	It is submitted for the Academic Council for the further approval

			• Smart Food Processing with Digital Technologies				

7.	**Stakeholders feedback and action taken**	**Course Code**	**Course Name**	**Stake Holder Details (Name, Designation)**	**Suggestion from Stakeholder**	**Action Taken**
		60 FT 302	Food Microbiology for Food Technologists	Ms. R. Sankari, PQS ISO Co-Ordinator, Parle Products Pvt. Ltd., Thanjavur	Remove molecular characterization and genome sequencing of specific pathogens.	Suggested topics removed - Molecular Characterization of Microorganisms and Whole Genome Sequencing including *Listeria monocytogenes*, Norwalk virus, Rotavirus, and Hepatitis A virus from food samples.
		60 FT 3P2	Food Microbiology Laboratory	Ms. R. Sankari, PQS ISO Co-Ordinator, Parle Products Pvt. Ltd., Thanjavur	Change the title and split the staining procedures.	Title changed to Isolation and Identification of Bacteria from Various Food Samples. Experiments split into Gram staining and fungal staining.
		60 FT 4P1	Food Chemistry and Nutrition Laboratory	Ms. R. Sankari, PQS ISO Co-Ordinator, Parle Products Pvt. Ltd., Thanjavur	Modify the 12th experiment.	Replaced with Qualitative Analysis of Lipids – Determination of Acid Number in Edible Oil.
		60 FT 4P2	Unit Operation Laboratory	Dr. Daniel Paul, Professor & Head, Nehru Institute of Technology, Coimbatore	Remove the experiment on ternary equilibrium in liquid-liquid extraction.	Experiment removed.
		60 FT 5P1	Dairy Technology Laboratory	Mr. M.Vasanth kumar, Asst. Manager-	Reframe some experiment topics for clarity and relevance.	Experiments revised as: • Experiment on Resazurian test of milk to deduct the quality.

				Certification services, ALS Testing Services India Pvt. Ltd., Bangalore		• Experiment on efficiency and Working Principle of Spray Dryer • Development and quality evaluation of paneer
		60 FT 6P1	Baking and Confectionery Laboratory	Mr. E. Dinesh, Proprietor NAS Foods Pvt. Ltd., Krishnagiri	Add an open-ended experiment on functional/health ingredients.	Added Open-ended Experiment on Fortification of Baked Products with Functional or Health-promoting Ingredients.
8.	**Suggestions from IQAC**					

9.	**Any other matters**	**Discussions / Suggestions**	**Action to be Taken**
		Suggested to modify vision and mission of the department based on the stakeholder feedback. The existing vision and mission is subjected to revision though the various levels To produce competent technologists, scientist, researchers and entrepreneurs in food technology	The Vision and Mission is discussed with the Board of Studies and the changes and modifications were recorded for the next level of approvals.
		Internship should be completed in III year itself and to offer only in Even Semester.	Submitted to academic council for the approval
		Member Suggested to maintain only one Research Skill Development Course	Submitted to academic council for the approval

30/6/25

BoS Chairman

Dean Academics

Dean Admin

25/6

Principal

K.S. RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE- 637 215.

DEPARTMENT OF MANAGEMENT STUDIES

Board of Studies Meeting

Attendance List

Date: 26.05.2025

S. No.	Details of the Members	Particulars	Signature
1	Dr. V. Lavanya Associate Professor Department of Management Studies, National Institute of Technology, Trichy Mobile Number - 94871 17596 E mail address - lavanya@nitt.edu	Anna University Nominee	26/05/2025
2	Dr. A G V Narayanan Director Jansons School of Business Coimbatore Mobile Number: 8667216390 E mail address: director@jsb.ac.in	Subject expert	26/05/25
3	Dr. K V Nithyananda Assistant Professor Indian Institute of Management Trichy Mobile Number: 74183 63405 E mail address: nithyananda@iimtrichy.ac.in	Subject expert	-
4	Mr.C.Ram Senior Manager- HR JSW Steel Limited Salem Works: Pottaneri P.O., Mecheri, MetturTaluk, Salem Dist 636 453 Tamil Nadu, India Mobile no 7904652498 Mail ID: ram.chandrasekar@jsw.in	Expert from Industry	C. Ram
5	Mrs.S.Shobana Project Manager Supply Chain Services Bosch Global Software Technology Pvt.Ltd Coimbatore Mobile : 84896 09900 Mail Id : S.shobana@in.bosch.com	Meritorious Alumnus	26/May/2025
6	Dr.M.Vijayakumar Professor & Head Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	BoS Chairman & Module Co-ordinator for Marketing Stream	26/5/2025

7	Dr.R.Hemamalini Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	BoS Coordinator, Program Co-ordinator & & Module Co-ordinator for HR Stream	26/5/25
8	Dr.M.Ramakrishnan Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Module Co-ordinator for Operations Stream	26/5/25
9	Dr.H.Kalaiarasi Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Module Co-ordinator for Finance Stream	26/05/25
10	Mr.R.Murugaganesh Assistant Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Member	26/5/25
11	Dr.E.Kalaivani Assistant Professor Department of Management Studies K.S.Rangasamy College of Technology Tiruchengode-637215	Member	26/5/25
12	Mr.P.Palani Bharathi II MBA	Student Member	26/5/25
13	Ms. Shakthicharumaa K I MBA	Student Member	25/05/2025

26/5/2025

Chairman/MBA

K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE 637 215

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

Minutes of the Board of Studies Meeting

Department of Management Studies

	BoS Meeting No 28			Date:26.05.25		Venue:	Fintech Lab
S.No	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	**Curriculum and syllabi of PG MBA program-R2025**	Dr. V. Lavanya Associate Professor MBA, National Institute of Technology, Trichy (Anna University Nominee)	BoS Chairman welcomed all the BoS members. BoS Chairman briefed about the whole curriculum of R2025 to the members. The curriculum and syllabus for the I-IV semesters of MBA program R2025 were discussed.	Members of the BoS approved the current R2025 curriculum as presented.	HoD & all Faculty members	2025-26	
2.	**Revision in the Curriculum and syllabi of III & IV semester R2022**	Dr. A G V Narayanan Director Jansons School of Business Coimbatore (Subject Expert) Mr.C.Ram Senior Manager- HR JSW Steel Limited (Industry Expert)	i. BoS members discussed about the curriculum and syllabi of III and IV semesters R2022 and agreed the curriculum as it is without any changes. The syllabi of few elective subjects are updated as per the requirement of stake holder's suggestion, which was also accepted by BoS members. Ii. As per Suggestion from Stakeholders the following subjects have the modifications in few topics	i. BoS chairman accepted the suggestions given by members. ii. As per Stakeholders suggestion following contents were discussed and included	HoD and Faculty Members	2025-26	--

		Dr. V. Lavanya Associate Professor MBA, National Institute of Technology, Trichy (Anna University Nominee) Mrs.S.Shobana Project Manager Supply Chain Services Bosch Global Software Technology Pvt.Ltd Coimbatore (Alumnus)	60 MBH1 – Industrial Relation and Labour Welfare 60 MBH2 – Training and Development	for the below mentioned subjects. 60 MB 4H1 - – Industrial Relation and Labour Welfare – Digitalization of Labour welfare 60 MBH2 – Training and Development – Upskilling to meet digital transformation in digital workplace			
3.	**List of open elective courses and value-added courses offered in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester)**	Dr. A G V Narayanan Director, Jansons School of Business Coimbatore (Subject Expert) Mrs.S.Shobana Project Manager Supply Chain Services Bosch Global Software Technology Pvt.Ltd	i. Value added course like Power Bi, SAP ERP and Design Thinking were suggested by BoS members ii. Open elective course like Data Mining, Google Analytics and Supply chain can be offered	i. In the Even semester of 2024-25, Business Analytics was offered to students For ODD semester of 2025-26 Design Thinking Is planned. ii. Cyber Security was offered as open elective for the even semester of 2024-25	HoD and Faculty Members	2025-26	

		Coimbatore (Alumnus)					
4.	**Discussion on proposed Curriculum of I to IV Semester for R 2025** I. Total No. of credits for the MBA **ii. Curriculum for I to IV semester Courses (R2025) and Recommendations**	Dr. A G V Narayanan Director Jansons School of Business Coimbatore (Subject Expert) Mr.C.Ram Senior Manager- HR JSW Steel Limited (Industry Expert) Dr. V. Lavanya Associate Professor MBA, National Institute of Technology, Trichy (Anna University Nominee) Mrs.S.Shobana Project Manager Supply Chain Services Bosch Global Software Technology Pvt.Ltd Coimbatore	i. Discussion about R 2025 total credits of 102 was designed. ii. Curriculum for I to IV semesters courses of R2025 for the batch of students to be admitted in the academic year (2025 -2026) were discussed and recommendations given by the BoS members. Members suggested few modifications as follows: a. To include Corporate Governance with Business Ethics course in IV Semester b. Suggested to include Finance lab in the III semester. c. Suggessted to give different name for Personality Development Lab I and II.	1.BoS members agreed the total credits without any change ii. Members agreed the structure of the curriculum R2025 of I to IV semester. Recommendations considered are as follows: a. Corporate Governance was include with Business Ethics Course. b. Stock and Strategies Lab is included in the III semester. c. The Personality Development Lab I is named as Professional Grooming and Communiction Lab and Personality Development Lab II is named as Leadership and Executive Skills Lab	HoD and Faculty Members	2025-26	

	iii. Curriculum to support progression to career guidance, Startups & Entrepreneurship & cross cutting issues and Sustainable Development Goals (SDGs).	(Alumnus)	d. The summer internship and the project work together can be provided for 3 months as one internship cum project. iii. Members discussed the career guidance, startups, entrepreneurship, cross cutting issues and Sustainable Development Goals (SDGs) in the Curriculum R2025 and confirmed it.	d. The suggestion on the internship and the project work courses were taken forward for further discussion. iii. The contribution of career guidance, startups, entrepreneurship, cross cutting issues and Sustainable Development Goals (SDGs) in the Curriculum R2025 are given in the following list of courses: a. Career guidance (Professional Grooming and Communication Lab & Leadership and Executive Skills Lab) b. Startups & entrepreneurship (Core subject Entrepreneurship development and Internship are included as part of the curriculum) c. SDG goals (Core subjects, Sustainable development and Social Immersion project) were covered			

5	**Discussion on Choice Based Credit System** i. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester) II. Skill based & value added courses planned to offer in 2024-2025 (EVEN Semester) and planned to offer in 2025-2026 (ODD Semester) III. Evaluation & course outcome plan for Project based course IV. Internship for Students	Mr.C.Ram Senior Manager- HR JSW Steel Limited (Industry Expert) Dr. V. Lavanya Associate Professor MBA, National Institute of Technology, Trichy (Anna University Nomine)	i.. Discussed about the proximity of offering NPTEL course as self-study courses was held ii. Members discussed about the proximity of offering skill based, value added courses to the students. They suggested few courses such as AI in Management, Data Mining, Python and Advanced Excel iii. Members discussed about evaluation pattern of Project based courses iv. Members suggested to have one mandatory internship as a part of the curriculum R2025	i. NPTEL courses offered in 2024-25 (EVEN Semester) are Advertising and Promotion Management and Talent Acquisition for the odd semester 2025-26 it decided to offer Digital Marketing. ii. The suggestion were taken into consideration for further discussion. It is decided offer Design Thinking in the odd semester 2025-26 as Value added course. iii. The Project based courses evaluation pattern consists of three reviews presentation, submission of project report and viva voce. iv. Summer Internship is included in the R 2025 Curriculum as a practical component in III semester	HoD and Faculty Members	2024-25	
6	**Stake holders feedback and action taken**	Mrs.S.Shobana Project Manager Supply Chain Services	Discussion about the stakeholders feedback was held	Few topics were included in R2022 III semester subjects as per the suggestion given by stakeholders. 60 MB 4H1 - –			

	iv. Curriculum meeting the requirements of NEP 2020.		iv. Members discussed about the Curriculum meeting the requirements of NEP 2020.	iv. As part of NEP implementation the NISM certification course can be considered for course waiver or as additional credits earned by student			
	v. Curriculum to support student involvement in innovative, design & critical thinking abilities and their problem-solving skills.		v. Curriculum R2025 was also examined and found to be satisfactory in supporting students' engagement in creative, design, and critical thinking skills as well as their problem-solving ability.	v. Curriculum R2025 supports student involvement in innovative, design & critical thinking abilities through following courses such as: • Business analytics • Business Statistics • Operations research • Research Methodology			
	vi. Incorporation of Industry sponsored/supported courses and laboratories **vii. Introduction of new courses**		vi. BoS members suggested to have Fin Tech as Industry supported course and laboratory. vii. BoS members suggested few new courses such as Supply chain analytics and Project Management.	vi. It has been decided to include Fin Tech as elective in R2025 curriculum. vii. The suggestion will be implemented as discussed in the new regulation R2025			

		Bosch Global Software Technology Pvt.Ltd Coimbatore (Alumnus)		Industrial Relation and Labour Welfare – Digitalization of Labour welfare. 60 MBH2 – Training and Development – Upskilling to meet digital transformation in digital workplace			
7	**Any other matters**	Dr. A G V Narayanan Director Jansons School of Business Coimbatore (Subject Expert) Mr.C.Ram Senior Manager- HR JSW Steel Limited (Industry Expert) Dr. V. Lavanya Associate Professor MBA, National Institute of Technology, Trichy (Anna University Nominee)	i. BoS Members reviewed Vision, Mission Program Educational Objectives, Program outcomes ii. Discussed about the opportunity for Student foreign internships. Members suggested for collaboration with top B-schools in state and national level. iii. Question pattern discussion and assessment of internal marks. Internal and External marks are calculated in the ratio as 40 & 60 for theory subjects and 60 & 40 for laboratory subjects.	i.All the BoS members were satisfied with the present Vision, Mission Program Educational Objectives, Program outcomes. ii. Collaboration with top B-schools in state and national level will be considered and discussed. iii. Members accepted the question paper pattern and suggested to have the internal contribution as two continuous assessment test and two activity or assignment for each subjects in a semester as a part of internal assessment.			

BoS Chairman

Dean Admin

Principal 10/7/2018

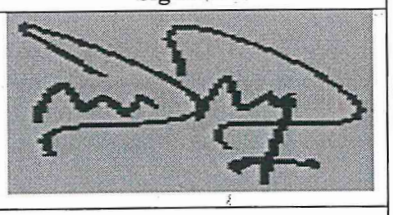
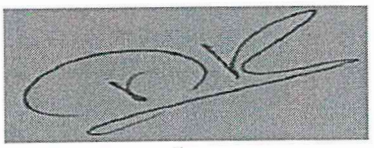
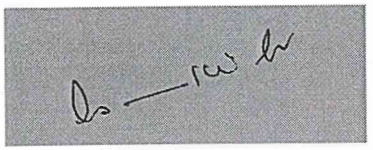
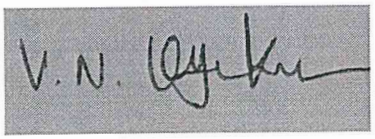
K.S.Rangasamy College of Technology, Tiruchengode-637 215
Department of Science and Humanities
28th Board of Studies Meeting – Attendance Sheet

Date: 17.06.2025 **Time: 10:00 AM**

Mode: Hybrid

Virtual Meeting Link: https://shorturl.at/6veub

Physical Meeting Venue: Mechanical Board Room

S.No.	Name of the Faculty	Designation	Signature
1.	Dr.K.Ganesamoorthy	University Nominee Assistant Professor (Sr.Gr.) Department of Mathematics Coimbatore Institute of Technology Coimbatore	
2.	Dr.J.Anbazhagan Vijay	Subject Expert Professor and Head Department of English Government College of Technology Coimbatore	
3.	Dr.K.V.Hemalatha	Subject Expert Assistant Professor Department of Chemistry Coimbatore Institute of Technology Coimbatore	
4.	Dr.V.N.Vijayakumar	Subject Expert Professor Department of Physics Bannari Amman Institute of Technology Sathyamangalam	
5.	Dr.K.Senthilvadivu	Professor & Head / Mathematics	17/6/25
6.	Dr.T.A.Sukantha	Professor & Head / Chemistry	17/06/2025
7.	Dr.V.Vasudevan	Associate Professor & Head / Physics	17/6/25
8.	Dr.M.UmaiArasi	Associate Professor / English	17/06/25
9.	Dr.R.Rajmohan	Associate Professor / English	17.6.25
10.	Mrs.N.Bhuvaneshwari	Assistant Professor / English	17/06/25
11.	Mrs.C.Vijayapriya	Assistant Professor / English	17/6/25
12.	Mr.R.Selvarasu	Assistant Professor / English	17/06/25
13.	Dr P.S.Suthasnthirakumar	Assistant Professor/ Physics	17/6/25
14.	Dr.S.Saveetha	Assistant Professor/ Physics	17/6/25
15.	Dr.S.Satheeskumar	Professor/ Physics	17/6/25

16.	Dr. R. Palanivelu	Professor/ Chemistry	
17.	Dr. B. Srividhya	Professor/ Chemistry	
18.	Dr. S. Meenachi	Associate Professor / Chemistry	
19.	Dr.M. Tamilvanan	Associate Professor / Chemistry	
20.	K. Tamilarasu	Assistant Professor / Chemistry	
21.	D. Kirthiga	Assistant Professor / Chemistry	
22.	Dr.C.Chandran	Professor / Mathematics	
23.	Dr.N.Lalithamani	Professor / Mathematics	
24.	Dr.N.Uthirasamy	Professor / Mathematics	
25.	Dr.K.Prabakaran	Professor / Mathematics	
26.	Dr.S.Muthukumar	Associate Professor / Mathematics	
27.	Dr.K.Kiruthika	Associate Professor / Mathematics	
28.	Mr.G.Mohan	Assistant Professor / Mathematics	
29.	Mrs.D.Padmavathi	Assistant Professor / Mathematics	
30.	Dr.D.Tamizharasan	Assistant Professor / Mathematics	
31.	Mrs.K.Geetha	Assistant Professor / Mathematics	
32.	Mrs.S.Annapoorani	Assistant Professor / Mathematics	
33.	Mrs.V.Thivya	Assistant Professor / Mathematics	
34.	Mr.P.M.Saravanan	Assistant Professor / Mathematics	

17/6/25

BoS Chairman
(Dr.K.Senthilvadivu)

CHAIRMAN
Board of Studies
Faculty of Science and Humanities
K.S.Rangasamy College of Technology
Tiruchengode - 637 215. Namakkal-Dt.

K.S.Rangasamy College of Technology, Tiruchengode-637 215
Department of Science and Humanities
28th Board of Studies Meeting - 2025-26

Date: 17.06.2025 **Time: 10:00 AM**

Hybrid Mode:

Virtual Meeting Link: Link: https://shorturl.at/6veub (Microsoft teams)

Physical Meeting Venue: Mechanical Board Room

The Board of Studies meeting held on 17.06.2025 in a hybrid mode started with the Greeting and welcome by the Board of Studies Chairman. The Chairman of BOS introduced the newly constituted BOS External and Internal members to the forum.

The following External and Internal BoS members were present at the meeting:

S.No	Name	Details	Representation
1.	Dr.K.Ganesamoorthy	Assistant Professor (Sr. Gr.) Department of Mathematics Coimbatore Institute of Technology Coimbatore	University Nominee
2.	Dr.J.Anbazhagan Vijay	Professor and Head, Department of English, Government College of Technology, Coimbatore	Subject Expert- External
3.	Dr.K.V.Hemalatha	Assistant Professor, Department of Chemistry, Coimbatore Institute of Technology, Coimbatore	Subject Expert- External
4.	Dr.V.N.Vijayakumar	Professor, Department of Physics, Bannari Amman Institute of Technology, Sathyamangalam	Subject Expert- External
5.	Dr.K.Senthilvadivu	Professor & Head / Mathematics	Chairman & Subject Expert Nominated by the Principal
6.	Dr.M.Umai Arasi	Associate Professor / English	Subject Expert Nominated by the Principal
7.	Dr.V.Vasudevan	Associate Professor & Head / Physics	Subject Expert Nominated by the Principal
8.	Dr.T.A.Sukantha	Professor & Head / Chemistry	Subject Expert Nominated by the Principal
9.	Dr.R.Rajmohan	Associate Professor / English	
10.	Mrs.N.Bhuvaneshwari	Assistant Professor / English	
11.	Mrs.C.Vijayapriya	Assistant Professor / English	
12.	Mr.R.Selvarasu	Assistant Professor / English	
13.	Dr S.Satheeskumar	Professor/ Physics	

14.	Dr.P.Suthanthirakumar	Assistant Professor / Physics	Members
15.	Dr S.Saveetha	Assistant Professor/ Physics	
16.	Dr. R. Palanivelu	Professor/ Chemistry	
17.	Dr. B. Srividhya	Professor/ Chemistry	
18.	Dr. S. Meenachi	Associate Professor / Chemistry	
19.	Dr.M. Tamilvanan	Associate Professor / Chemistry	
20.	K. Tamilarasu	Assistant Professor / Chemistry	
21.	D. Kirthiga	Assistant Professor / Chemistry	
22.	Dr.C.Chandran	Professor / Mathematics	
23.	Dr.N.Lalithamani	Professor / Mathematics	
24.	Dr.N.Uthirasamy	Professor / Mathematics	
25.	Dr.K.Prabakaran	Professor / Mathematics	
26.	Dr.S.Muthukumar	Associate Professor / Mathematics	
27.	Dr.K.Kiruthika	Associate Professor / Mathematics	
28.	Mr.G.Mohan	Assistant Professor / Mathematics	
29.	Mrs.D.Padmavathi	Assistant Professor / Mathematics	
30.	Dr.D.Tamizharasan	Assistant Professor / Mathematics	
31.	Mrs.K.Geetha	Assistant Professor / Mathematics	
32.	Mrs.S.Annapoorani	Assistant Professor / Mathematics	
33.	Mrs.V.Thivya	Assistant Professor / Mathematics	
34.	Mr.P.M.Saravanan	Assistant Professor / Mathematics	

The following Agenda was taken for deliberation:

S.No.	Items
1.	Discussion on Curriculum of I and II Semesters of UG R2026 (B.E./B.Tech.) .
2.	Discussions and suggestions for Curriculum of I of PG courses of R2025.
3.	Discussion on syllabi of I and II Semesters of R2026 (B.E./B.Tech.)
4.	Discussions and suggestions for syllabi of I semester PG courses of R2025.
5.	Any other matter

The detailed discussion made by the Internal and External members as given in the agenda is given below:

BoS Meeting No: 28		**Date: 17.06.2025**			**Venue: Mechanical Board Room**		
S.No.	**Agenda**	**Name & Nominee**	**Discussions / Suggestions**	**Action to be Taken**	**Responsibility**	**Target**	**Remarks**
1.	Discussion on Curriculum of I and II Semesters of UG R2026 (B.E./B.Tech.)	All members of the forum	The ccurriculum structure of I and II Semesters of UG courses R2026 was displayed for deliberation during the respective department's individual presentation.	Curriculum was approved by the respective expert member.	All Faculty	Periodical	
2.	Discussions and suggestions for Curriculum of I of PG courses of R2025	All members of the forum	The curriculum structure of I Semester of PG courses R2025 was displayed for deliberation during the respective department's individual presentation.	Curriculum was approved by the respective expert member.	All Faculty	Periodical	

3.	Discussion on syllabi of I and II Semesters of R2026 (B.E./B.Tech.)	**Dr.K.V.Hemalatha**	**Chemistry** Recommendations for Chemistry for Electrical Sciences Syllabus 1. Module 1 –Include the topics with AI integration to meet the need of current scenario. 2. Module 2 –Course outcome should be in line with content as apply level 3. Module 3 – Include new storage systems 4. Module 4 – Few more display methods may be included **5.** Module 5 – Carbon nano tubes has been removed or include nano particle synthesis as separate module. Chemical Science for Informatics & Chemistry for Life Sciences 1.Laboratory experiment topics may be reframed. Suggestion for Weightage Distribution in Assessment Pattern 1. 30 % weightage may be given for Understand level questions. 2. 40% weightage may be given for Apply and Analyze level questions to encourage critical thinking and application. Environmental Studies and Climate Change 1.One or two credits may be given to the above Mandatory Course <u>Laboratory Course Recommendations</u> 1.Three application-oriented experiments may be based on theory concepts and remaining two application-oriented experiments may be related to real world scenario.	Will be updated	Dr.T.A.Sukantha BoS member	To be Submitted for Academic Council approval	

		Dr.V.N.Vijayakumar	**Physics** **Suggestions** 1.Module 1 – **Semiconductor Physics** Include the topic "Extrinsic Semiconductors – P-Type and N-Type" (qualitative understanding) for conceptual clarity. 2. Module 2 – **Optoelectronics** Replace the derivation of Einstein coefficients with a discussion on their applications in modern optoelectronic devices. Remove the Nd:YAG Laser topic and include CO_2 Laser, which is more relevant to industrial and AI applications. 3.Module 3 – **Thermal Physics** In the topic "Heat conduction through a compound media (series and parallel)", reduce the emphasis on derivation. 4. Module 5 – **Quantum Materials** Include fundamental quantum nanostructures - Quantum Dot - Quantum Wire - Quantum Well These additions were recommended by the Subject Expert during the BoS meeting to align with current technological trends in AI. **Suggestion for Weightage Distribution in Assessment Pattern** 1.30 % weightage may be given for Understand level questions. 2. 40% weightage may be given for Apply and Analyze level questions to encourage critical thinking and application.	Will be updated	Dr.V.Vasudevan BoS member	To be Submitted for Academic Council approval	

			Laboratory Course Recommendations **Application-Oriented Experiments** 1.Three experiments may be based on Theory concepts and remaining two may be related to real world scenario.				
		Dr.J.Anbazhagan Vijay	**English** 1. The courses in R 2026 are 70 EN 001 Professional Communication -I & 70 EN 002 Professional Communication -II The End Semester Examination for the above courses are to be conducted in theory mode. The same was ratified and approved by the BoS Subject expert. He appreciated the meticulous design of the syllabus and smooth progression from I to II semester. He approved the framed syllabi of 3-credit course with Theory and Practical component in each semester for English in the proposed curriculum of R-2026 for First year B.E. / B. Tech. The member suggested a few changes in the course outcomes and also in the modules. The member suggested to have a detailed discussion after a few more brain-storming sessions with the course handlers.	Will be updated	Dr.M.Umai Arasi BoS member	To be Submitted for Academic Council approval	
		Dr.K.Ganesamoorthy	**Mathematics** 1.70 MA 001- In Cayley-Hamilton Theorem 'exclude proof' may be specified in the syllabus content. 2.In Ordinary Differential Equations – Method of variation of parameters may be sequenced before Simultaneous first-order linear equations with constant co-efficient.	Will be updated	Dr.K.Senthilvadivu BoS Chairman	To be Submitted for Academic Council approval	

			3.70 I 003 – Module 2 may be renamed as Matrices. 4. 70 MA 004 – Module 1 may be renamed as Linear Equations. 5. 70 MA 006 – In 3rd Module, Cauchy's residue theorem may be removed. 6. 70 MA 007 – In Module 2, Vector Calculus may be renamed as Vector Differentiation.				
4.	Discussions and suggestions for syllabi of I semester PG courses of R2025		**PG Courses** 1. 70 PVL 101 – It was suggested that the course title may be modified as Linear Algebra and Graph Theory. 2.70 PSE 101 – Module 2 title should be modified as Curve Fitting and Interpolation. In module 4 & 5, Definitions topic may be removed. 3.70 PDB 101 - Module 1 title may be renamed as Basics of Matrices and Complex Numbers. Include the topic Analytic and Complex Functions.	Updated as per suggestions	Dr.K.Senthilvadivu BoS Chairman	To be Submitted for Academic Council approval	
5.	Any other Matter	**All members of the forum**	**Parent Feedback Integration** Incorporate feedback from parents for the continuous improvement of the curriculum and learning outcomes.	Will be updated	All HoDs / Faculty		

The Chairman of Board of Studies thanked all the members for their active participation and cordially invited them for the next meeting.

HoDs

1. HoD/English
2. HoD/Maths
3. HoD/Physics
4. HoD/Chemistry

BoS Chairman

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