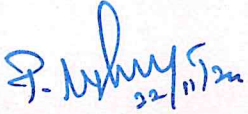

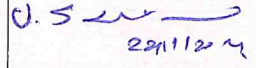
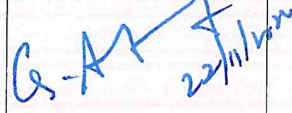
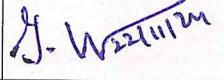



**ANNEXURE – I**  
**K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215.**

**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	<i>A. Palaniappan</i> 22/11/24
21.	Ms.T. Rithiga	Student Member	IV Year Civil Department of Civil Engineering K.S.Rangasamy College of Technology, Tiruchengode-637215	<i>T. Rithiga</i>
22.	Mr.A.Sanjay Kumar	Student Member	IV Year Civil Department of Civil Engineering K.S.Rangasamy College of Technology, Tiruchengode-637215	<i>S. Sanjay</i>
23.	Mr. S.Ajith	Student Member	III Year Civil Department of Civil Engineering K.S.Rangasamy College of Technology, Tiruchengode-637215	<i>S. Ajith</i>
24.	Mr. P.Vijayaprasanna	Student Member	II Year M.E. Structural Engineering Department of Civil Engineering, K.S.Rangasamy College of Technology, Tiruchengode – 637215.	<i>P. Vijayaprasanna</i> 22.11.24
25.	Mrs. A.Chitra	Parent of M.Sabari (73772116111)	Head master Panchayat Union Primary School - Veppilapatty pudhur - 636202	<i>A. Chitra</i>
26.	Mrs. G.Kalaiselvi	Parent of R.K.Aswin (73772216105)	Assistant Professor Anjalai Ammal Mahalingam Engineering college, Kovilvenni, Thiruvarur	<i>G. Kalaiselvi</i>

  
 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**


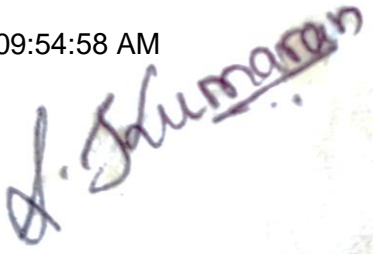
**Time: 10.00AM**

**Venue : Board Room, Pratham Block (Hybrid mode)**

**Meeting link :**

**<https://teams.microsoft.com/j/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-f84dfec36edc%22%7d>**

**Virtual Attendance**

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 

  
**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: 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 4 <sup>th</sup> semester to 6 <sup>th</sup> semester.	As per the suggestion, the "Building Information Laboratory" course has been moved from 4 <sup>th</sup> semester to 6 <sup>th</sup> semester.	Module Coordinator	Immediate	
			Suggested to move the "Material Testing Laboratory" course from 6 <sup>th</sup> semester to 4 <sup>th</sup> semester.	As per the suggestion, the "Material Testing Laboratory" course has been moved from 6 <sup>th</sup> semester to 4 <sup>th</sup> 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	Submitted to Academic Council for Approval
			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 7 <sup>th</sup> semester	As per the suggestion, the "Rebar and Structural Steel Laboratory" course has been introduced in the 7 <sup>th</sup> 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)	<p>The curriculum and syllabi of I – IV semester of R2025 PG is presented and the following suggestions were given</p> <p>It was suggested to move the "Design of Steel Composites" course to the <b>Professional Core</b> category for the M.E. <b>Structural Engineering</b> program, as this course directly contributes to the specialized knowledge required for advanced structural engineering. Additionally, some <b>Basic Courses</b> like Structural Dynamics in the program could be moved to the <b>Elective</b> category to allow students for more flexibility and choice in selecting courses aligned with their interests.</p>				
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)	<p>The members suggested to include the following courses for Honors degree (R-2022).</p> <ol style="list-style-type: none"> <li>60CEH01- Architecture and Town Planning</li> <li>60CEH02- Traffic Engineering and Management</li> <li>60CEH03- Building Services</li> <li>60CEH04- Climatic Changes and Adaptation Measures</li> <li>60CEH05- Application of Remote sensing and GIS in Engineering</li> <li>60CEH06- Disaster Management.</li> </ol>	All the courses are included in the honors degree	BoS Chairman	Contin uous	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)	<p>The following open elective courses were offered in 2024-25 (ODD Semester)</p> <ol style="list-style-type: none"> <li>60 CE L02- Climatic Changes and Adaptation Measures.</li> </ol> <p><b>List of open elective courses to be offer in 2024-25 (Even semester)</b></p> <ol style="list-style-type: none"> <li>60 CE L01 – Waste Management Techniques</li> <li>60 CE L10 – Disaster Management</li> </ol> <p>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</p> <p>The value-added course planned to offer in the Even semester (2024-2025) for UG program</p> <ol style="list-style-type: none"> <li>Building Information Modelling</li> <li>Building Valuation / NBC Bye-Laws</li> </ol> <p>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</p>				
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)	<p><b>I. Total No. of credits for the UG programme</b> 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.</p> <p><b>II. Curriculum and syllabi shall meet the requirements to pursue higher education, career guidance, Startups &amp; Entrepreneurship &amp; Crosscutting issues</b></p> <p>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.</p>				

		<p>Mr. S. Lokesh Kumar Industry Expert</p>	<p><b>III. Curriculum &amp; syllabi should improve innovative, design &amp; critical thinking skills and problem solving abilities of students</b></p> <p>Dr. Ibrahim Bathusha, Dr.G.Arun Kumar and Dr.V.Satheeskumar discussed that the proposed R 2022 curriculum &amp; syllabi will enrich innovative, design &amp; critical thinking skills and problem solving abilities of students. The course Design Thinking and Innovation &amp; Design Thinking and Product Development was introduced in the V and VI Semester</p> <p><b>IV. Virtual Laboratories &amp; Industry sponsored courses \ Specific Laboratories</b> 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</p> <p><b>V. New courses offered</b> As per the suggestions, the new courses introduced are</p> <ol style="list-style-type: none"> <li>1. Geotextiles and Applications in Civil Engineering</li> <li>2. Geotextiles and Geosynthetics Laboratory</li> </ol>
<p>6.</p>	<p><b>Discussion on Choice Based Credit System</b></p>	<p>Dr. Ibrahim Bathusha (University Nominee)</p> <p>Dr.V.Satheeskumar (Subject Expert)</p> <p>Dr.G.Arun Kumar (Subject Expert)</p> <p>Mr. S. Kumaran (Meritorious Alumnus)</p>	<p><b>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)</b></p> <ul style="list-style-type: none"> <li>• Environmental Science (12 Weeks)</li> <li>• Municipal Solid Waste Management (12 Weeks)</li> <li>• Building Materials as a Cornerstone to Sustainability (12 Weeks)</li> </ul> <p><b>NPTEL planned to offer in 2024-25 (Even Sem)</b></p> <ul style="list-style-type: none"> <li>• Introduction to Civil Engineering Profession (8 Weeks)</li> <li>• Basic Construction materials (12 Weeks)</li> <li>• Concrete Technology (12 Weeks)</li> </ul> <p><b>II. One credit course planned to offer by industry in 2024-25(Even semester)</b> One Credit courses planned to offer are</p> <ul style="list-style-type: none"> <li>• Digital Surveying, in collaboration with Land Coordinates Technologies, Chennai – 600073.</li> </ul> <p><b>III. Skill based courses offered in 2024-25(ODD semester) and planned to offer 2024-25(Even semester)</b></p> <p>The following skill-based courses were planned to offer in 2024-25(ODD semester)</p> <ul style="list-style-type: none"> <li>• Rebar &amp; Structural Steel Detailing</li> <li>• Revit Architecture</li> </ul> <p>Value added courses planned to offer in 2024-25(Even semester)</p> <ul style="list-style-type: none"> <li>• Building Valuation / NBC Bye-Laws</li> <li>• Building Information Modelling using Tekla Software</li> </ul> <p><b>Internship for Students (2<sup>nd</sup>, 3<sup>rd</sup> &amp; 4<sup>th</sup> Year)</b> 2 Weeks-1 Credits 4 Weeks-2 credits 6 Weeks and above-3 Credit</p> <p>Number of Students undergone internship are 3<sup>rd</sup> Year – 22 4<sup>th</sup> Year – 22</p> <p>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.</p> <p>The above discussion are submitted for the approval in Academic Council Meeting for approval.</p>



7.	Stake holders feedback and action taken	<p>The following suggestions are given by stakeholders</p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol> <p>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</p>
8	Any other Matters	<p><b>Question Paper Reforms - Internal and End Semester Examination</b> 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.</p> <p><b>NCC as additional Credit Waiver in R2026,2022 &amp; 2018</b> Members suggested adhering to the directions provided by the Head of the Institute since they are the same for all branches.</p>

*P. Mohan*  
13/12/24  
BoS Chairman

*Aji*  
Dean/Academics


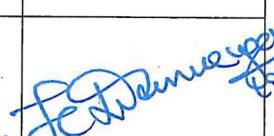



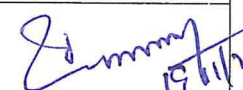
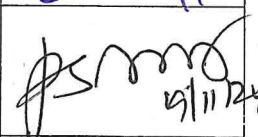
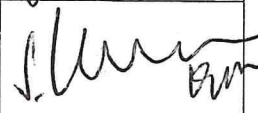


*Jimmy*  
13/12/2024  
Dean/Admin

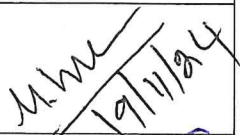


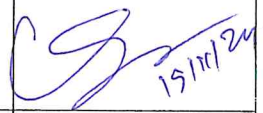




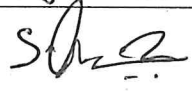
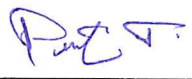
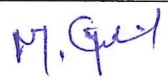
*John*  
PRIN  
Principal

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

<b>ANNEXURE – I</b>	
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	
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	 19/11/24
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	 19/11/24
13.	Mr. S. Venkatesan	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	 19/11/24
14.	Dr.V.P. Arthanarieswaran	Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	 19/11/24
15.	Dr.S.Jeyaprakasam	Associate Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	 19/11/24
16.	Dr.D.Vasudevan	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	 19/11/24
17.	Mr.C.Ramesh	Assistant Professor, Department of Mechanical Engineering, K.S.Rangasamy College of Technology	Member	 19/11/24
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			

**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**

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.

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**Minutes of Board of Studies Meeting  
Department of Mechanical Engineering**

21.11.2024

S. No.	BoS Meeting No.: 27			Date: 19.11.2024	Venue: Board room & MS Teams ( <a href="https://rb.gy/ofa6vf">https://rb.gy/ofa6vf</a> )		
	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	- <b>Physics for Mechanical Engineering:</b> Suggested to rename the course as 'Engineering Physics'	- Based on the suggestion, the course name has been renamed.	Science & Humanities Dept.	Immediate	
		Dr.K.Balamurugan, University Nominee & Dr.R.Parameshwaran Alumni	- <b>Electrical Drives and Control for Mechanical Engineers:</b> 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	- <b>Basic Electrical and Electronics Engineering:</b> 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	

*Total credits  
checked by  
Dr. Ramesh*

1.	Curriculum of UG programmes (R2026)	Dr.K.Balamurugan, University Nominee & Dr.P.Jeyaraj Academic Expert	- <b>Chemistry for Mechanical Engineering:</b> 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	- <b>Differential Calculus:</b> 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 member the core and elective courses have been revised.	Module Coordinator	Immediate	

<b>1.</b>	<b>Curriculum of UG programmes (R2026)</b>	Dr.K.Balamurugan, University Nominee & Dr.R.Parameshwaran Alumni	- Suggested to offer the course 'Fluid Power Automation' to 5 <sup>th</sup> semester and 'Automobile Engineering' course to higher semester in order to avoid accumulation of courses/credits in the 4 <sup>th</sup> 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 7 <sup>th</sup> 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	<p><b>Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 &amp; R2026)</b></p> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- Proposed curriculum and syllabi for the Honours courses were presented and the suggestions were sought by the BoS Chairman. Members suggested to offer the courses which emphasize on emerging technologies. The list of courses are as follows: <ul style="list-style-type: none"> <li>• 60 ME E16 - Reverse Engineering</li> <li>• 60 ME E27 - Optimization Techniques in Design,</li> <li>• 60 ME E37 - Integrated Product Development</li> <li>• 60 ME E47 - Micro and Precision Engineering</li> <li>• 60 ME E57 - Quality Engineering</li> <li>• 60 ME E58 - Surface Engineering</li> </ul> </li> </ul> <p>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.</p> <p><b>Action Taken:</b></p> <p>The curriculum and syllabi of Honours courses presented by the BoS Chairman were passed in the meeting and submitted to Academic Council for approval.</p>
4	<p><b>List of open elective courses offered in 2024-25(ODD Semester)</b></p> <ul style="list-style-type: none"> <li>- The following open elective courses were offered in 2023-24 (EVEN Semester) <ul style="list-style-type: none"> <li>• 50 ME L05 Logistics Management</li> <li>• 50 ME L11 Composite Materials and Processing</li> <li>• 60 ME L02 Product Design and Development</li> </ul> </li> </ul> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- Dr.K.Balamurugan, University Nominee &amp; 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.</li> </ul> <p><b>List of open elective courses planned to offer in 2024-25 (EVEN semester)</b></p> <p><b>Action Taken:</b></p> <ul style="list-style-type: none"> <li>- Based on the discussion, the members approved to offer the following open elective courses in 2024-25 (EVEN semester) <ul style="list-style-type: none"> <li>• 60 ME L01 Direct Digital Manufacturing</li> <li>• 60 ME L04 Reliability Engineering</li> <li>• 60 ME L06 Power Generation Engineering</li> <li>• 60 ME L07 Green Energy Sources</li> </ul> </li> <li>- It is resolved to submit the syllabi to Academic Council for further approval.</li> </ul>

	<p><b>List of value-added courses offered in 2024-25(ODD Semester) and planned to offer in 2024-25 (EVEN semester)</b></p> <ul style="list-style-type: none"> <li>- The following value added courses were offered in 2024-25 (ODD Semester) <ul style="list-style-type: none"> <li>• Solid Works</li> <li>• Design for Manufacture and Assembly</li> <li>• Computer Aided Manufacturing</li> </ul> </li> </ul> <p><b>Discussion/Suggestion:</b></p> <p>Dr.K.Balamurugan, University Nominee &amp;Dr.P.Jeyaraj, Academic Expert, Dr.R.ParameshwaranAlumnisuggested to offer industry related value added courses to suit the current requirements.</p> <p><b>Action Taken:</b></p> <ul style="list-style-type: none"> <li>- It is proposed to offer the following value added courses from 2024-25 EVEN Semester <ul style="list-style-type: none"> <li>• NX-CAD</li> <li>• Inspection of Welded Joints</li> </ul> </li> <li>- It is resolved to submit the proposal to Academic Council for further approval.</li> </ul>
5	<p><b>Discussion on proposed Curriculum for UG (I to VIII Semesters, R2026)</b></p> <p><b>I. Total No. of credits for the UG programme</b></p> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- Dr.K.Balamurugan, University Nominee&amp;Dr.P.Jeyaraj, Academic Expert and other members have gone through the proposed curriculum of Mechanical Engineering (UG) under Regulation R 2026.</li> </ul> <p><b>Action Taken:</b></p> <ul style="list-style-type: none"> <li>- 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.</li> </ul>
	<p><b>II. Curriculum for I to VIII semester Courses (R2026) and Recommendations</b></p> <ul style="list-style-type: none"> <li>- Dr.K.Balamurugan, University Nominee&amp;Dr.P.Jeyaraj, Academic Expert appreciated that the R 2026 curriculum of the Mechanical Engineering programme will meet the requirements to pursue higher education &amp; carrier guidance and startups&amp; entrepreneurship as well.</li> </ul>
	<p><b>III. Curriculum and syllabi to support progression to higher education, career guidance, Startups&amp;Entrepreneurship &amp; cross cutting issues and Sustainable Development Goals (SDGs).</b></p> <ul style="list-style-type: none"> <li>- 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.</li> </ul>
	<p><b>IV. Curriculum meeting the requirements of NEP2020.</b></p> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- 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.</li> </ul>

	<p><b>V. Curriculum &amp; syllabi to support student involvement in innovative, design &amp; critical thinking abilities and their problem-solving skills.</b>  <b>Discussion/Suggestion:</b>  Members suggested that the proposed curriculum R 2026 will enrich innovative, design &amp; critical thinking skills and problem solving abilities of students.</p>
	<p><b>VI. Incorporation of Virtual Laboratory &amp; Industry sponsored/supported courses and laboratories</b>  <b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- Dr.K.Balamurugan, University Nominee, Dr.P.Jeyaraj, Academic Expert suggested to continue with virtual laboratory contents available in web platform of premier institute.</li> <li>- It is resolved to submit the proposal for the approval in Academic Council.</li> </ul>
	<p><b>VII. Introduction of new courses</b>  <b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- Members suggested to focus on current trends in Mechanical Engineering which will be useful for placement, higher studies and entrepreneurship.</li> </ul> <p><b>Action Taken:</b></p> <ul style="list-style-type: none"> <li>- 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. <ol style="list-style-type: none"> <li>1. Computer Aided Drafting Laboratory</li> <li>2. Piping Design</li> <li>3. Industrial Tribology</li> <li>4. Manufacturing Information System</li> <li>5. Additive Manufacturing</li> <li>6. Precision Engineering</li> <li>7. Energy Conservation in HVAC System</li> <li>8. Design Thinking and Innovation</li> <li>9. Design Thinking and Product Development</li> <li>10. Machine Learning</li> <li>11. Production Planning and Control</li> <li>12. Plastic Manufacturing Processes</li> </ol> </li> <li>- It is resolved to submit the proposal to Academic Council for approval and implemented in the R 2022.</li> </ul>

<p>6</p>	<p><b>Discussion on Choice Based Credit System</b></p> <p><b>I. Self-study courses SWAYAM/ NPTEL/MOOC courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even Semester)</b></p> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- Dr.K.Balamurugan, University Nominee, Dr.P.Jeyaraj, Academic Expertsuggested to offer self-study courses from 3<sup>rd</sup>semester onwards with one course per semester.</li> <li>- The following courses were completed by both faculty and students under NPTEL during 2024-25 (ODD semester) <ul style="list-style-type: none"> <li>• Product Design and Development</li> <li>• Manufacturing Process: Casting and Joining</li> <li>• Welding Application Technology</li> <li>• Introduction to Composites</li> <li>• Rapid Manufacturing</li> <li>• Engineering Metrology</li> <li>• Laser Based Manufacturing</li> </ul> </li> <li>- In line with curriculum of R 2022, student can opt for the NPTEL and ICT academy courses based upon the industry needs.</li> <li>- It is resolved to submit for the approval in Academic Council.</li> </ul>
	<p><b>II. One credit course offered in 2024-2025 (ODD Semester) and planned to offer in 2024-225 (Even Semester)</b></p> <ul style="list-style-type: none"> <li>- The following value added courses were offered in 2023-24 (EVEN Semester) <ul style="list-style-type: none"> <li>• Emerging Trends in Welding Technology</li> </ul> </li> </ul> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- Mr.Rammohan Krishnan and Dr.R.Parameshwaran, Alumnisuggested to offer one credit courses from 5<sup>th</sup> semester onwards that to one course per semester.</li> </ul> <p><b>Action Taken:</b></p> <ul style="list-style-type: none"> <li>- We are planning to conduct the following one credit courses in 2024-25(EVEN semester) <ul style="list-style-type: none"> <li>• Welding Engineering</li> <li>• Welding Processes</li> <li>• Non -Destructive Testing</li> <li>• Geometric Dimensioning&amp;Tolerancing (GD &amp; T)</li> </ul> </li> <li>- The knowledge of industry person is effectively utilized to enrich the skill of students in order to promote employability.</li> <li>- The one credit courses are submitted to Academic Council for further approval.</li> </ul>

	<p><b>III. Skill based courses offered in 2024-25 (ODD semester) and planned to offer 2024-25 (Even Semester)</b></p> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- 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) <ul style="list-style-type: none"> <li>• Communication skill</li> <li>• Critical Thinking</li> </ul> </li> </ul> <p><b>Action Taken:</b></p> <ul style="list-style-type: none"> <li>- The list of courses are submitted to Academic Council for further approval.</li> </ul>
	<p><b>IV. International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters.</b></p> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- The international certified course titled 'Solidworks Essentials' is identified and planned to offer in the forthcoming semester.</li> <li>- Submitted for the approval in Academic Council.</li> </ul>
	<p><b>V. Rollout of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities.</b></p> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Submitted for the approval in Academic Council.</li> </ul>
	<p><b>VI. Evaluation pattern for Integrated courses, Project based &amp; System based courses</b></p> <p><b>Discussion/Suggestion:</b></p> <ul style="list-style-type: none"> <li>- As per the suggestion, it is decided to proceed with existing process for evaluation pattern for integrated courses.</li> <li>- Submitted for the approval in Academic Council.</li> </ul>
	<p><b>VII. Internship details of students (2nd, 3<sup>rd</sup> &amp; 4th Year)</b></p> <ul style="list-style-type: none"> <li>- BoS members suggested to undergo internship from 3<sup>rd</sup> semester onwards offered by core companies during summer and winter vacations.</li> <li>- Students were completed the internship during 2024-25 academic year (upto ODD semester). (66 students – final year)</li> <li>- Submitted for the approval in Academic Council.</li> </ul>

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 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.

  
21/11/24  
BoS Chairman

  
9/12  
Dean/Academics

  
12/12/24  
Dean/Admin.

  
Principal

PLS attach the  
curriculum  
and  
syllabi  
of  
2026.

**Board of Studies Members (as per UGC Recommendations)**






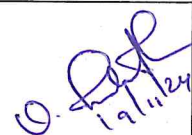

**Period: 2024-2025**

Name of the Board Programme : Mechatronics Engineering  
 : 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	<i>S.S.Saravanakumar</i> 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	<i>P. Ravichandran</i> 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	<i>M. Bharathiraja</i> 19/11/24
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	<i>A. Ramesh Kumar</i> 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 19/11/24

CHAIRMAN  
Board Of Studies/  
Mechatronics Engineering



**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 19/11/24

CHAIRMAN  
Board Of Studies/  
Mechatronics Engineering

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
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The 27<sup>th</sup> 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 27<sup>th</sup> 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 7 <sup>th</sup> Semester	As suggested the course is renamed as 70 MC 302 Sensors and Instrumentation  The recommended courses are scheduled prior to the 7 <sup>th</sup> 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)		<p>i. Total No. of credits for the UG programme - 165</p> <p>ii. Curriculum for I to VIII semester UG Courses (R2026) and Recommendations - Presented by BoS Chairman and Same was approved by BoS experts</p> <p>iii. Curriculum for I to IV semester PG Courses (R2025) and Recommendations - Presented by BoS Chairman and Same was approved by BoS experts</p> <p>iv. Curriculum and syllabi to support progression to higher education, career guidance, Startups &amp; Entrepreneurship &amp; 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</p> <p>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</p> <p>vi. Curriculum &amp; syllabi to support student involvement in innovative, design &amp; critical thinking abilities and their problem-solving skills – R 2026 Curriculum was framed by incorporating all the above</p> <p>vii. Incorporation of Virtual Laboratory &amp; Industry sponsored/supported courses and laboratories - Presented by BoS Chairman and Same was approved by BoS experts</p> <p>viii. Introduction of new courses - around 21 new courses is presented by BoS Chairman</p> <p>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</p>				
7.	Discussion on Choice Based Credit System		<p>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 &amp; PG students may enroll the SWAYAM / NPTEL / MOOC courses</p> <p>II. ONE Credit course offered in 2024-25 (Odd Semester) - Nil and planned to offer by industry in 2024-25 (Even Semester)  <b>One Credit Course</b> - Planned to offer course (Even Semester) on topic "<b>Digital Twin Technology</b>" and MOU was Signed with PRAYA LABS, Tiruvanamalai</p> <p>III. Skill based courses offered in 2024-25(ODD semester) – Solid Works, LabView and planned to offer 2024-25 (Even Semester) – MATLAB, Arduino</p> <p>IV. International Certification completed in 2023-24 with credits - Members suggested to motivate the students to enrol for International Certification and enjoy their learning</p> <p>V. Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc.</p> <p>VI. Evaluation &amp; course outcome plan for integrated courses, Project Based &amp; System Based Courses</p> <p>VII. Internship details of students (2<sup>nd</sup>, 3<sup>rd</sup> &amp; 4<sup>th</sup> Year). In 2<sup>nd</sup> Year-46 Students &amp; 3<sup>rd</sup> Year -52 students were completed the internship</p> <p>As per the discussions, it is resolved to submit the proposal to Academic Council for further approval</p>				
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	<p>Action Taken:  The above Stake holders' suggestion is incorporated in the Manufacturing Processes course and submitted to Academic Council for further approval</p>				

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 Udemey <b>Minor Degree:</b> 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				

*S. S. Suresh*  
BoS Chairman 16/12/24

*K. J. 17/12*  
Dean - Academics

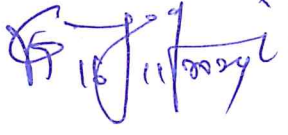

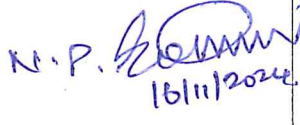


*Sammy*  
Dean - Admin 17/12/24

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Principal









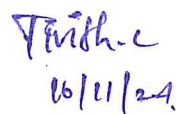
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**Department of Electrical and Electronics Engineering**  
**27<sup>th</sup> BOS Meeting Attendance**

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	 16/11/2024
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	 16/11/24
6.	Er. Kalaiyarasan K	Lead Commissioning Engineer, H&MV Engineering Company, Bangalore, Mail ID: k.kalaiyarasan@gmail.com, Mobile No: 9791915762	 16/11/2024



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 <b>Suggestion given :</b> 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 <b>Suggestion given :</b> <ul style="list-style-type: none"> <li>• Advanced core electives may be added</li> <li>• Softwares apart from Matlab may be planned for Power system laboratory</li> </ul>	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

			<p>Design using modern ICs may be given.</p> <p>iv. 60 EE E22 – Internet of Things may be changed as Principles of IoT and its Applications.</p> <p>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</p> <p>vi. 50EEE53 – Wind and Solar Energy System: LVRT &amp; new trends for new Grid Codes may be added for understanding the Wind power Plant integration with grid</p>				
4.	<p><b>Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 &amp; R2026)</b> The proposed Curriculum and Syllabi for Honour / Minor Degree programmes (R2022 &amp; R2026) were presented by BoS Chairman.</p> <p><b>Suggestions:</b> 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.</p> <p><b>Action taken</b> The proposed curriculum and syllabi for the Honour Degree programmes (R2022 &amp; R2026), presented by the BoS Chairman, were passed in the meeting and submitted for approval in the Academic Council meeting.</p>						
5.	<p><b>List of open elective courses and value-added courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester)</b></p> <p><b>Open Electives offered:</b> 1. 60EEL04 – Sensor Technology</p> <p><b>Open Elective planned to offer:</b> 1. 60EEL03 – Graphical System Interface using LABView 2. 60EEL03 – Electric Vehicle Technology</p> <p><b>Value added courses offered:</b> 1. PCB Design 2. Arduino Programming</p> <p><b>Value added courses planned to offer:</b> 1. PCB Assembly and Testing 2. MATLAB Foundation</p>						

	<p>List of open electives and respective Syllabi were presented</p> <p><b>Action taken</b> Dr. V Sankaranarayanan, (University Nominee) Dr. S. Thangavel (Subject Expert) &amp; Dr.K. Kalaiyaranan (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.</p>
<b>6</b>	<b>Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes:</b>
<b>I.</b>	<p><b>Total No. of credits for the UG programme</b> Total No. of credits for the UG programme is 161 BoS Committee approved and submitted to academic council for further approval</p>
<b>II</b>	<p><b>Curriculum for I to VIII semester Courses (R2026) and Recommendations Suggestions By Members:</b> 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</p> <p><b>Action Taken</b> 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.</p>
<b>III</b>	<p><b>Curriculum for I to IV semester Courses (R2025) and Recommendations</b> Proposed Curriculum of R2026 were presented. Total No. of credits for the PG programme is 72. BoS Committee approved and submitted to academic council for further approval</p>
<b>IV</b>	<p><b>Curriculum and syllabi to support progression to higher education, career guidance, startups &amp; entrepreneurship &amp; cross cutting issues and Sustainable Development Goals (SDGs).</b> Dr. V Sankaranarayanan, (University Nominee) Dr. K. Udhayakumar (Subject Expert) &amp; 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.</p>
<b>V</b>	<p><b>Curriculum meeting the requirements of NEP 2020</b> External Members appreciated that, the Open Electives, Language Electives, Minor/Honor Degree, NSS/NCC &amp; 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.</p>
<b>VI</b>	<p><b>Curriculum &amp; syllabi to support student involvement in innovative, design &amp; critical thinking abilities and their problem-solving skills</b> 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.</p>
<b>VII</b>	<p><b>Incorporation of Virtual Laboratory &amp; Industry sponsored/supported courses and laboratories.</b> The following courses are identified for virtual laboratory for teaching learning process.</p> <ul style="list-style-type: none"> <li>• Electric Circuit Analysis – IIT Kharagpur</li> <li>• Analog Circuits and Systems – IIT Roorkee</li> <li>• Electrical Machines – I – IIT Guwahati</li> <li>• Electrical Machines – II – IIT Guwahati</li> </ul> <p>BoS Committee approved and submitted to academic council for further approval</p>
<b>VII</b>	<p><b>Introduction of new courses</b></p> <ul style="list-style-type: none"> <li>• Language Elective</li> </ul> <p>BoS Committee approved and submitted to academic council for further approval</p>

7.	<b>Discussion on Choice Based Credit System</b>
I	<p><b>Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even Semester)</b></p> <p><b>NPTEL Courses Completed in 2024 -25 Odd Semester:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to Industry 4.0 And Industrial Internet of Things</li> <li>2. Introduction to Internet of Things</li> <li>3. Cloud Computing</li> </ol> <p><b>NPTEL Courses planned Completed in 2024 -25 Odd Semester:</b></p> <ol style="list-style-type: none"> <li>1. FACTS Devices</li> <li>2. Fuzzy Sets, Logic and Systems &amp; Applications</li> <li>3. Industrial Automation and Interfacing</li> <li>4. Introduction to Industry 4.0 And Industrial Internet of Things</li> <li>5. Introduction to Internet of Things</li> <li>6. Cloud Computing</li> </ol> <p>Dr. V Sankaranarayanan, (University Nominee) Dr. S. Thangavel (Subject Expert), Dr.K. Kalaiyaran (Industry Expert) &amp; 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.</p>
II	<p><b>One credit course offered in 2024-2025 (ODD Semester) and planned to offer in 2024-225 (Even Semester)</b></p> <p><b>One credit course offered in 24-25 Odd semester:</b></p> <ol style="list-style-type: none"> <li>1. 60EESE01 – Hardware Integration Using Graphical Programming</li> <li>2. 60EESE02 – STM32 Microcontroller: Fundamentals and Development</li> </ol> <p><b>One credit course Planned to offer in 24-25 Even semester</b></p> <ol style="list-style-type: none"> <li>1. LoRA WAN Architecture in IoT</li> <li>2. Electrical CAD</li> </ol> <p>Dr. V Sankaranarayanan, (University Nominee) Dr. N.P. Subramaniam (Subject Expert), Dr.K. Kalaiyaran (Industry Expert) &amp; 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.</p>
III	<p><b>Skill based courses offered in 2024-25(ODD semester) and planned to offer 2024-25 (Even Semester)</b></p> <p><b>Skill Based courses offered in 2024-25 Odd Semester:</b></p> <ol style="list-style-type: none"> <li>1. Arduino</li> <li>2. LABView</li> </ol> <p><b>Skill Based courses planned to be offered in 2024-25 Even Semester:</b></p> <ol style="list-style-type: none"> <li>1. MATLAB Programming for Electrical Engineering</li> </ol> <p>Dr. S. Thangavel (Subject Expert), Dr.K. Kalaiyaran (Industry Expert) &amp; 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.</p>
IV	<p><b>International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters</b></p> <p>International Certification courses are not yet completed by any students. Students may take the international certifications in the forth coming semester.</p> <p>Dr. V Sankaranarayanan, (University Nominee) Dr. N.P. Subramaniam (Subject Expert), Dr.K. Kalaiyaran (Industry Expert) &amp; 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.</p>

V	<p><b>Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities.</b></p> <p>Roll out of laboratories classes to make students to participate in Design contest is identified the following course:</p> <p>1. Linear and Digital Integrated Circuits Laboratory – Hackathon</p> <p>Dr. S. Thangavel (Subject Expert), Dr.K. Kalaiyarasan (Industry Expert) &amp; Dr. K. Udhayakumar (Subject Expert) approved and it is submitted for the Academic Council for further approval.</p>
VI	<p><b>Evaluation pattern for Integrated courses, Project based &amp; System based courses</b></p> <p>Dr. S. Thangavel (Subject Expert), Dr.K. Kalaiyarasan (Industry Expert) &amp; Dr. K. Udhayakumar (Subject Expert) suggested to follow the same assessment pattern for the integrated courses.</p>
VII	<p><b>Internship details of students (2<sup>nd</sup>, 3<sup>rd</sup> &amp; 4<sup>th</sup> Year)</b></p> <p>Internship for Students (2<sup>nd</sup>, 3<sup>rd</sup> &amp; 4<sup>th</sup> Year):</p> <p>The number of internships undergone internship: 3<sup>rd</sup> Year – 67 &amp; 4<sup>th</sup> Year - 125</p> <p>All members appreciated and suggested to follow the mandatory internship policy and satisfy the requirements as per AU norms.</p>
8.	<p><b>Stake holders feedback and action taken</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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</li> <li>• Hasini, Associate HR Manager, GE Power Conversion Chennai – Suggested to Introduce AI based courses in Power System Applications</li> </ul> <p><b>Action Taken</b></p> <p>Based on the suggestion from stakeholders, the curriculum has been revised and submitted to academic council for approval.</p>
9.	<p><b>Suggestions from IQAC</b></p> <p>Value Added Course focusing on women empowerment may be chosen as Gender Equality through Inclusive Design from Coursera</p>
10.	<p><b>Any other matters</b></p> <ul style="list-style-type: none"> <li>• <b>Suggestion on Examination Reforms (Question Paper Pattern – Internal and End Semester Examination, etc.,)</b></li> </ul> <p>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.</p> <ul style="list-style-type: none"> <li>• <b>Suggestions and permission to start new programmes in thrust areas:</b></li> </ul> <p>Dr. S. Thangavel (Subject Expert) suggested to start new programme in the area of E Mobility</p>

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17/12/24

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Chairman BoS / EEE

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Dean Academic 17/12

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Dean Administration

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Principal

## 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)



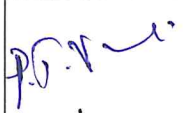
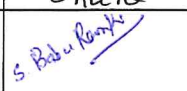




Date: 16.11.2024

Time: 10.00 AM


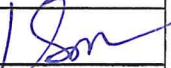
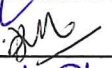



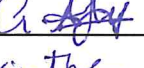

Venue: ECE Board Room (Hybrid mode)

## Meeting link:

<https://teams.microsoft.com/join/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)	
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/join/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)**

<b>Name of the Body</b>	Board of Studies (BoS) Electronics and Communication Engineering - UG and PG
<b>Meeting No</b>	27
<b>Date &amp; Time</b>	16.11.2024 & 10.00AM
<b>Venue</b>	ECE meeting Hall (Hybrid mode)
<b>Meeting link</b>	<a href="https://teams.microsoft.com/join/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">https://teams.microsoft.com/join/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</a>

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) <ol style="list-style-type: none"> <li>Total no. of credits for the UG programme</li> <li>Curriculum for I to VIII Semester courses of R2026 and Recommendations</li> <li>Curriculum for I to IV Semester courses of R2025 and Recommendations</li> <li>Curriculum and syllabi to support progression to higher education &amp; career guidance and Start-ups &amp; Entrepreneurship and cross cutting issues and Sustainable Development Goals (SDGs)</li> <li>Curriculum meeting the requirements of NEP 2020</li> <li>Curriculum &amp; syllabi to support student involvement in innovative, design &amp; critical thinking abilities and problem solving skills</li> <li>Incorporation of Virtual Laboratory &amp; Industry sponsored/supported courses and laboratories</li> <li>Introduction of new courses</li> </ol>
6.	Discussion on Choice Based Credit System <ol style="list-style-type: none"> <li>Self-study courses SWAYAM/NPTEL/MOOC courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester)</li> <li>One credit courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester)</li> <li>Skill based courses offered in 2024-25 (ODD semester) and planned to offer in 2024-25 (Even semester)</li> <li>International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters.</li> <li>Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon and Ideathon, and similar activities.</li> <li>Evaluation pattern for integrated courses, Project based &amp; System Based Courses</li> <li>Internship details of Students (2<sup>nd</sup>, 3<sup>rd</sup> &amp; 4<sup>th</sup> Year)</li> </ol>
7.	Stake holders feedback and action taken report
8.	Suggestion from IQAC
9.	Any other matters <ul style="list-style-type: none"> <li>• Suggestions on Examination Reforms (Question Paper Pattern – Internal and End Semester Examination, etc.,)</li> <li>• Suggestions and permission to start new programmes in thrust areas</li> </ul>



		first semester.	offered in the semester II for workload balancing.			
	Dr. P. Palanisamy (Nominated by University)	<b>Semester II</b> ➤ 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.	➤ The course 'Programming for Problem Solving' is renamed with 'C Programming'. ➤ The course 'Biology for Engineers' is moved to Professional Elective.	BoS Chairman	Curriculum of II semester of R2026(UG)	Submitted to the academic council for further approval
	Mr. Balakumar Chinnusamy (Industry Expert)	➤ Students may be taught 'C++' along with 'C'	➤ It will be done while framing syllabus.			
	Dr. P. Palanisamy (Nominated by University)	<b>Semester III and Semester IV</b> ➤ 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'.	➤ The laboratory course 'Analog Circuits Laboratory' is combined with Digital circuits laboratory and offered as 'Analog and Digital Electronics Laboratory' for workload balancing.	BoS Chairman	Curriculum of III and IV semester of R2026(UG)	Submitted to the academic council for further approval
	Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	➤ 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 courses are offered with 1.5 credits. ➤ The suggestion will be considered while finalizing the curriculum for R2026. ➤ The course 'Network theory' is			

		<p>Semester II as it should be learnt prior to Electronic Circuits. Similarly, the course 'Signals and Systems' may be moved to Semester IV.</p> <ul style="list-style-type: none"> <li>➤ The course 'Electromagnetic Waves' may be moved to Semester III.</li> <li>➤ The course 'Linear Integrated Circuits' may be renamed as 'Analog Integrated Circuits'.</li> <li>➤ The part Electromagnetics in the lab course 'Linear Integrated Circuits and Electromagnetics Laboratory' may be removed.</li> </ul>	<p>moved to Semester II.</p> <ul style="list-style-type: none"> <li>➤ The suggestion on 'Signals and Systems' will be considered while finalizing the curriculum for R2026.</li> <li>➤ The course 'Electromagnetic Waves' is moved to Semester III.</li> <li>➤ The course 'Linear Integrated Circuits' is offered with the same nomenclature as the course 'Electronic Circuits' is offered in semester III.</li> <li>➤ The part Electromagnetics in the lab course 'Linear Integrated Circuits and Electromagnetics Laboratory' is removed.</li> </ul>			
	<p>Dr. P. Palanisamy (Nominated by University)</p>	<p><b>Semester VI and Semester VII</b></p> <ul style="list-style-type: none"> <li>➤ The course 'Machine Learning Techniques' may be moved to Professional Elective as it is allied for ECE Students.</li> </ul>	<ul style="list-style-type: none"> <li>➤ The suggestion will be considered while finalizing the curriculum for R2026.</li> </ul>	BoS Chairman	Curriculum of VI and VII semester of R2026(UG)	Submitted to the academic council for further approval
	<p>Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)</p>	<ul style="list-style-type: none"> <li>➤ In place of it, the course 'Mobile Communication and Networks'/'Wireless Communication' may be offered as it is needed for placement.</li> </ul>	<ul style="list-style-type: none"> <li>➤ The course 'Mobile Communication and Networks' is offered in semester VI.</li> </ul>			
	<p>Dr. P. Palanisamy (Nominated by University)</p>	<ul style="list-style-type: none"> <li>➤ The course 'Antenna and Microwave Engineering'</li> </ul>	<ul style="list-style-type: none"> <li>➤ The discussion is being done and</li> </ul>			

		University)  Mr. Balakumar Chinnusamy (Industry Expert)	<p>may be separated.</p> <ul style="list-style-type: none"> <li>➤ The concepts such as 'Antennas' and 'Transmission lines' may be taught in one course.</li> <li>➤ The course 'Microwave Engineering' may be offered as separate course and this may be renamed as 'Microwave Components and Circuits'.</li> <li>➤ The course 'Mini project' may be renamed with 'Reverse Engineering Lab'.</li> <li>➤ Suggested to include the course related to 'Manufacturing Practices'</li> </ul>	<p>suggestion will be considered while finalizing the curriculum for R2026.</p> <ul style="list-style-type: none"> <li>➤ The course 'Mini project' is renamed with 'Reverse Engineering Lab' in Semester VI.</li> <li>➤ Drafting of the syllabus with industry expert Mr. Balakumar Chinnusamy is in progress through mail for 'Manufacturing Practices'.</li> </ul>			
		Dr. P. Palanisamy (Nominated by University)	<p><b>Semester VIII</b></p> <ul style="list-style-type: none"> <li>➤ Suggested to look into the need of the 'Professional Elective course' in the 8<sup>th</sup> semester as most of the students are going for internship during this period.</li> </ul>	<p>It was replied by the Dean (Academics) and BoS chairman that most of the students will be waiving this Professional Elective V.</p>	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)	<ul style="list-style-type: none"> <li>➤ Suggested to move the course 'ASIC design' from Professional Elective to Core.</li> <li>➤ The core courses such as 'Data Convertors IC Design', 'Electronic Design Automation' and 'Low Power VLSI Design' may be moved to Professional</li> </ul>	<ul style="list-style-type: none"> <li>➤ The course 'ASIC Design' is moved to Professional Core.</li> <li>➤ The course 'Data Convertors IC Design' is moved to Professional Electives group V in semester III.</li> </ul>	BoS Chairman	Curriculum of R2025(PG)	Submitted to the academic council for further approval

		Dr. P. Palanisamy (Nominated by University)	<p>Electives group.</p> <ul style="list-style-type: none"> <li>➤ The course related to 'VLSI Hardware verification and methodologies' may be offered as a Professional Elective course.</li> <li>➤ 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.</li> </ul>	<ul style="list-style-type: none"> <li>➤ 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.</li> <li>➤ The course on 'Design for verification using UVM' is offered in the Professional Elective IV group in semester II.</li> <li>➤ 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.</li> </ul>			
2.	<p>i) Revision in the curriculum and Syllabi of I to V semester R2022 (UG)</p> <p>ii) Revision in the Syllabi of VIII Semester - R2018 (UG)</p>	-	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)	<p><b>Professional Elective Courses: Verticals / Honours Degree – R2026</b></p> <ul style="list-style-type: none"> <li>➤ Suggested to ensure that the Professional elective</li> </ul>	<ul style="list-style-type: none"> <li>➤ There are 8 courses given in each</li> </ul>	BoS Chairman	Curriculum of Honours degree courses - As per the suggestions, new	Submitted to the academic council for further approval



		<p>Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)</p>	<p>courses in each vertical are not overlapped and the number of courses in each vertical may be at least 7 to 8.</p> <ul style="list-style-type: none"> <li>➤ Suggested to bring the courses related to Artificial Intelligence and Data Science.</li> <li>➤ The course 'Wireless Sensor Network Design' may be moved under 'Wireless Communication Technologies'.</li> <li>➤ Students may also be allowed to take courses across the verticals offered for Honour – without specialization.</li> <li>➤ Only 4 verticals in the Professional electives may be offered.</li> </ul>	<p>vertical in the Professional elective courses and ensured that there is no course repeated in each vertical group.</p> <ul style="list-style-type: none"> <li>➤ The vertical Computational Intelligence is introduced with the courses related to Artificial Intelligence and Data Science.</li> <li>➤ 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'.</li> <li>➤ Permission received from the BoS members for students to take Honours degree courses across the verticals offered for Honour – without specialization.</li> <li>➤ There are 5 verticals with 8 courses in each vertical are given as five Professional Electives are offered in R2026.</li> </ul>		<p>professional elective courses based on recent technologies have been included in verticals.</p>	
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			<ul style="list-style-type: none"> <li>➤ Have 'Semiconductor Technologies' as a separate vertical.</li> </ul>	<ul style="list-style-type: none"> <li>➤ The new vertical 'Semiconductor Chip Design' is offered in which all the concepts related to 'Semiconductor Technologies' will be covered while framing the syllabus.</li> </ul>			
		Dr. P. Palanisamy (Nominated by University)	<p><b>Minor Degree (Internet of Things) – R2022/R2026</b></p> <ul style="list-style-type: none"> <li>➤ Suggested to offer the courses related to IoT for the ECE students.</li> </ul>	<ul style="list-style-type: none"> <li>➤ 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.</li> </ul>	BoS Chairman	Curriculum of minor degree courses	Submitted to the academic council for further approval
		Dr. P.T. Vanathi (Subject Expert Nominated by Academic Council)	<ul style="list-style-type: none"> <li>➤ Suggested to emphasize the concepts related to IoT Healthcare and Cloud Computing.</li> </ul>	<ul style="list-style-type: none"> <li>➤ These concepts are already given in the course 'IoT Hardware' in R2022. The same will also be followed in R2026 while framing the syllabus.</li> </ul>			
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	<p>The list of open electives and value-added courses are listed by the BoS chairman and all BoS members accepted the same</p> <ul style="list-style-type: none"> <li>➤ Suggested to offer 5G Communications and MIMO for ECE students as a Core course/Elective course.</li> </ul>	<p>Based on the suggestions, the courses such as '5G Communication Networks' and 'Massive MIMO Networks' are offered in R2022 as the Professional Elective</p>	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.			
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**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  $\geq 9$ .
- 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 <ul style="list-style-type: none"> <li>Diagnose; trouble shoot and extract the circuit drawing from the given PCB.</li> <li>Teardown a product from the given list or on their own to find the design information, drawing of the circuit, and power requirements.</li> <li>Prepare report based on the inferences.</li> </ul>

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
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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 in 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 <ul style="list-style-type: none"> <li>➤ Artificial Intelligence and Machine Learning</li> <li>➤ Internet of Things Engineering</li> <li>➤ Suggested to include the Elective courses in the domain of Semiconductor and VLSI Design</li> </ul> In VLSI Design, Few courses need to be refined focusing on the below points: <ul style="list-style-type: none"> <li>➤ Analog IP designs like Buck regulator and RF amplifiers need to be included</li> <li>➤ Lower geometry like sub 3nm back-end implementation techniques and noise isolation methods</li> </ul>
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

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

  
Dean-Academics

  
Dean-Administration

  
Principal

Annexure - I

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

(Autonomous Institution Affiliated to Anna University, Chennai)

DEPARTMENT OF EE(VLSIDT)

MEMBERS OF BOARD OF STUDIES (BOS) MEETING - 4

(Period: NOV 2024)




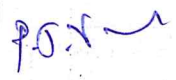


Date : 16.11.2024

Time: 10.30 AM

Venue: ECE Board Room (Hybrid mode)

Meeting link:

<https://teams.microsoft.com/join/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)	
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)	



7.	Dr.K.B.JAYANTHI Professor and Dean Academics/ ECE K.S.Rangasamy College of Technology	Member	<i>K.B. Jayanthi</i>
8.	Dr.C.RAJASEKARAN Professor / ECE K.S.Rangasamy College of Technology.	Member	<i>C. Rajasekaran</i>
9.	Dr.G.GOMATHI Professor / EE(VLSIDT)	Member	<i>G. Gomathi</i>
10.	Mrs.C.SARANYA Assistant Professor / EE(VLSIDT)	Member	<i>C. Saranya</i>
11.	MR.T.RAJAVENKATESAN Assistant Professor / EE(VLSIDT)	Member	<i>T. Rajavenkatesan</i>
12.	Mr.D.POORNAKUMAR Assistant Professor / EE(VLSIDT)	Member	<i>D. Poornakumar</i>
13.	Mr.S.PRADEEP Assistant Professor / EE(VLSIDT)	Member	<i>S. Pradeep</i>
14.	Ms.V.AISWARYA Student/II year EE(VLSIDT)	Member	<i>V. Aishwarya</i>
15.	Mr.S.INIYAVAN Student/II year EE(VLSIDT)	Member	<i>S. Iniyavan</i>

*[Signature]*  
BoS Chairman

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

(Autonomous)

**Agenda for BoS Meeting**

**2024 – 2025 (Odd Semester)**

<b>Name of the Body</b>	Board of Studies (BoS) Electronics Engineering (VLSI Design and Technology) - UG
<b>Date &amp; Time</b>	16.11.2024 & 10.30AM
<b>Venue</b>	ECE meeting Hall and Microsoft Teams
<b>Meeting link</b>	<a href="https://teams.microsoft.com/join/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">https://teams.microsoft.com/join/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</a>

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

<b>S.No</b>	<b>ITEMS</b>
<b>1.</b>	<b>Curriculum and syllabi of VII &amp; VIII Semester of UG courses R2022 &amp; R2026 Curriculum</b>
<b>2.</b>	<b>Revision in the Curriculum and syllabi of I to VI Semester of UG courses R2022.</b>
<b>3.</b>	<b>Discussion on Choice Based Credit System</b> 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)
<b>4.</b>	<b>Stake holders feedback and action taken</b>
<b>5.</b>	<b>Suggestion from IQAC</b>
<b>6.</b>	<b>Any other matters</b> <ul style="list-style-type: none"><li>• Question Paper Pattern – Internal and End Semester Examination</li></ul>

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

S.No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target	Remarks
				<b>Date:</b> 16.11.2024		<b>Venue:</b>	ECE meeting Hall + Microsoft Teams platform
<p>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:</p>							
<b>1</b>	<b>Curriculum and syllabi of VII and VIII Semester R 2022 of EE(VLSIDT)</b>	Dr.P.Palanisamy (Nominated by University)	<p>Course Name: ASIC Design</p> <ul style="list-style-type: none"> <li>➤ Module 3 &amp; 4 can be swapped</li> </ul>	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)	<p>Course Name: Electronic Packaging</p> <ul style="list-style-type: none"> <li>➤ Suggested that Module 3 &amp; 4 content should be reduced</li> <li>➤ Abbreviation should be in caps and suggested to specify case study in the module 5</li> </ul>	<p>Microvias and microvia technology was removed in module 3 and Introduction to Soldering was removed in Module 4 in R2022.</p> <p>Case Study: Implementation of Embedded Passives Technology in Mobile Devices is specified in Module V and Abbreviation for cad was given in caps.</p>	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)	<p>Course Name: Low Power VLSI Design</p> <ul style="list-style-type: none"> <li>➤ Suggested to reduce the content suitable for six hours</li> <li>➤ Suggested to modify the module 3 &amp; 4 content according to the practices given</li> </ul>	<p>The below contents were reduced in each module as per suggestion given by BoS members in R2022.</p> <p>Module2: Architecture Level Low Power Design</p> <p>Module3: Special Techniques, Adiabatic Techniques</p> <p>Module4: Architecture of</p>	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)	<ul style="list-style-type: none"> <li>➤ Course Name: VLSI Signal Processing</li> <li>➤ Suggested to reduce the retiming concept in module I</li> <li>➤ Content can be reduce according to the practices given</li> <li>➤ Suggested that in module 4 systolic architecture design 2D concept can be removed</li> </ul>	<p>The below contents were reduced in each module as per suggestion given by BoS members in R2022.</p> <p>Module 1: Solving System of Inequalities,</p> <p>Module 4: 2D Systolic Array Design</p> <p>Module 5: Winogard Algorithm</p>	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)	<p>Course Name: Scripting languages for VLSI design automation</p> <ul style="list-style-type: none"> <li>➤ Suggested to use Python instead of pearl in the practical and theory</li> </ul>	<p>The below practical were added and PERL concept was removed as per suggestion given by BoS members in R2022.</p> <ol style="list-style-type: none"> <li>1. Python programming using simple statements and expressions</li> <li>2. Scientific problems using Conditionals and Iterative loops.</li> <li>3. Implementing real-time/technical applications using Lists, Tuples.</li> </ol>	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.			
	<b>R2026 Curriculum of EE(VLSIDT)</b>	All BoS members	The draft Curriculum of R2026 is Presented to the BoS members.	-	-	-	Submitted to the academic council for further approval
2.	<b>Revision in the Curriculum and syllabi of I to VI Semester of UG courses R2022.</b>	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
<b>Offered</b>	
1	PCB Design using Altium
<b>Planned</b>	
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	<ul style="list-style-type: none"><li>Open ended experiments are given which will enable the students to develop projects on their own.</li><li>Students can choose any circuits/logic/ applications given in each experiment or bring circuits/logic/ applications of their choice suitable to the given experiment.</li></ul>
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 (2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> 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	



			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
<ul style="list-style-type: none"> <li>➤ Value Added Courses can be given focusing on women &amp; empowerment</li> <li>➤ Women Health &amp; Human Rights - Coursera</li> <li>➤ Gender Equality through Inclusive Design - Coursera</li> <li>➤ Gender Equality and Women Empowerment – Udemy</li> </ul>	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.

*Emmy*  
5/12/2024

*10/12/2024*

*[Signature]*

Chairman  
BoS / Electronics Engineering  
(VLSI Design and technology)



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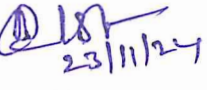
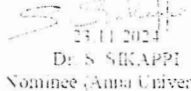


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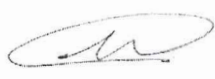



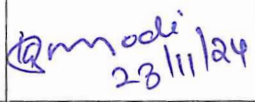





**Department of Computer Science and Engineering**  
**27<sup>th</sup> Board of Studies Meeting**





(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 : <a href="mailto:hodcse@ksrct.ac.in">hodcse@ksrct.ac.in</a> Mobile No: 9095060950	Chairman	
2.	Dr.B.G.Geetha Professor & Director (ITIM)/KSRCT Mail ID : <a href="mailto:directoritim@ksrct.ac.in">directoritim@ksrct.ac.in</a> Mobile No: 9894688866	Member (Subject Experts from the department)	
3.	Dr. A. Gnanabaskaran Prof/CSE/KSRCT Mail ID : <a href="mailto:gnanabaskarana@ksrct.ac.in">gnanabaskarana@ksrct.ac.in</a> Mobile No: 9626335995		
4.	Dr. S. Sikappi Assistant Professor (Sr. Gr.) Department of Computer Applications Coimbatore Institute of Technology, Coimbatore. Mail ID: <a href="mailto:sikappi@cit.edu.in">sikappi@cit.edu.in</a> 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: <a href="mailto:kanmani@ptuniv.edu">kanmani@ptuniv.edu</a> Mobile No: +91 94432 06299		
6.	Mr. Illanchezhian Ganesamurthy Director, Tietoevry, Bengaluru. Mail ID : <a href="mailto:Ilan.ganesamurthy@gmail.com">Ilan.ganesamurthy@gmail.com</a> Mobile: 9790987715	Member (Meritorious Alumnus)	

7.	Mr. M. Devendran Blockchain Technical Project Manager, Casper Association, Chennai. Mail ID : <a href="mailto:devconnects@gmail.com">devconnects@gmail.com</a> Mobile: +91 91766 61208	Member (Industry Expert)	
8.	Dr. V. Jayakumar Assistant Professor (Senior Grade) Presidency University Bangalore. Mail ID: <a href="mailto:jayakumarsrit@gmail.com">jayakumarsrit@gmail.com</a> 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: <a href="mailto:prabha.s@vitap.ac.in">prabha.s@vitap.ac.in</a> Mobile No: +91 98414 50282	Member (Subject Expert)	
10.	Dr. R. Gopinath ASP/CSE/KSRCT Mail ID: <a href="mailto:gopinath@ksrct.ac.in">gopinath@ksrct.ac.in</a> Mobile: 9865978725	Members (Co-opted by the HoD)	
11.	Dr. K. Poongodi Assistant Professor/CSE/KSRCT Mail ID: <a href="mailto:poongodik@ksrct.ac.in">poongodik@ksrct.ac.in</a> Mobile No: 9788680616		
12.	Dr. R. Chithra Professor/CSE/KSRCT Mail ID: <a href="mailto:chithra@ksrct.ac.in">chithra@ksrct.ac.in</a> Mobile No: 9994312842	Subject Expert	
13.	Ms. J. Mythili Assistant Professor/CSE/KSRCT Mail ID: <a href="mailto:mythili@ksrct.ac.in">mythili@ksrct.ac.in</a> Mobile No: 8838318567	Subject Expert	
14.	Mr. S. Rajkumar Assistant Professor/CSE/KSRCT Mail ID: <a href="mailto:rajkumars@ksrct.ac.in">rajkumars@ksrct.ac.in</a> Mobile No: 9003718103	Subject Expert	
15.	Mr. S. Vadivel Assistant Professor/CSE/KSRCT Mail ID: <a href="mailto:vadivels@ksrct.ac.in">vadivels@ksrct.ac.in</a> Mobile No: 9790632171	Subject Expert	
16.	Mr. K. Dineshkumar Assistant Professor/CSE/KSRCT Mail ID: <a href="mailto:dineshkumark@ksrct.ac.in">dineshkumark@ksrct.ac.in</a> 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	
19.	A.Priyadharshini Reg. No: 73772214181 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	
20.	V.Rahul Reg. No: 73772214185 Department of CSE K.S.Rangasamy College of Technology Tiruchengode-637215	Student	

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 Venue: Online		Date: 23.11.24 Microsoft Teams Meeting Link: <a href="https://insteams.link/500U">https://insteams.link/500U</a>					
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 4 <sup>th</sup> 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)	<p>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).</p> <p><b>List of open elective courses offered in 2024-2025 (ODD Semester)</b></p> <ul style="list-style-type: none"> <li>- 60 CS L01 Object Oriented Programming</li> <li>- 60 CS L10 Scripting Languages</li> <li>- 60 CS L12 Generative AI</li> <li>- 51 CS L08 Python Programming for Data Analytics</li> <li>- 50 CS L13 Salesforce</li> <li>- 50 TP L01 Jakarta Enterprise Edition</li> <li>- 50 TP L02 Dot Net Full Stack Development</li> </ul> <p><b>List of open elective courses planned to offer in 2024-2025 (Even Semester)</b></p> <ul style="list-style-type: none"> <li>- 60 CS L01 Object Oriented Programming</li> <li>- 60 CS L07 Java Programming</li> <li>- 60 CS L11 Advanced Java Programming</li> <li>- 60 CS L09 Salesforce</li> <li>- 60 CS L02 AngularJS</li> <li>- 60 CS L13 Industrial Cloud Practices</li> </ul> <p><b>List of value-added courses offered in 2024-2025 (ODD Semester)</b></p> <ul style="list-style-type: none"> <li>- Full Stack Development</li> <li>- UI/UX Design</li> <li>- Introduction to MongoDB</li> </ul> <p><b>List of value-added courses planned to offer in 2024-2025 (EVEN Semester)</b></p> <ul style="list-style-type: none"> <li>- Software Automation Testing</li> <li>- Sailpoint</li> <li>- Ethical Hacking</li> <li>- Deep Learning</li> </ul> <p>All BoS members accepted the same and it is resolved to submit to Academic Council for further approval</p>				
7.	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV	<p><b>I. Total No. of credits for the UG programme 167</b></p> <p><b>II. Curriculum for I to VIII semester Courses (R2026) and Recommendations</b></p> <p>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.</p>				

	<p>semesters, R2025) Programmes</p>	<p><b>III. Curriculum for I to IV semester Courses (R2025) and Recommendations</b></p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p><b>IV. Curriculum and syllabi to support progression to higher education, career guidance, Startups &amp; Entrepreneurship &amp; cross cutting issues and Sustainable Development Goals (SDGs).</b></p> <p>The proposed R2026 curriculum meet the requirements to pursue higher education, career guidance and startups &amp; entrepreneurship by offering the following courses</p> <ul style="list-style-type: none"> <li>Core Courses for GATE Preparation</li> <li>Career Skill Development I, II, III, IV, &amp; V</li> <li>Start-ups and Entrepreneurship</li> <li>Research Skill Development</li> <li>Courses related to Sustainable Development Goals (SDGs) are introduced in R2026</li> </ul> <p><b>V. Curriculum meeting the requirements of NEP 2020</b></p> <p>The curriculum is designed to meet the requirements of NEP 2020 with value added courses and self-learning courses</p> <p><b>VI. Curriculum &amp; syllabi to support student involvement in innovative, design &amp; critical thinking abilities and their problem-solving skills</b></p> <p>Yes, Curriculum and syllabi support student involvement in innovative, design &amp; critical thinking abilities and their problem-solving skills by conducting the following</p> <ul style="list-style-type: none"> <li>Codeathon</li> <li>Smart India Hackathon</li> <li>Project Contest</li> <li>Project work</li> <li>Innovative Courses</li> </ul> <p>Courses related to Sustainable Development Goals (SDGs) are introduced in R2026</p> <p><b>VII. Incorporation of Virtual Laboratory &amp; Industry sponsored/supported courses and laboratories</b></p> <ul style="list-style-type: none"> <li>Incorporation of virtual laboratory – Nil</li> <li>Industry supported courses and laboratories</li> </ul> <p>Infosys Springboard is a platform offered by Infosys by which students are insisted to complete the certification courses related to curriculum and latest technologies</p> <p><b>VIII. Introduction of new courses</b></p> <p>The following courses are proposed to offer as new courses</p> <ul style="list-style-type: none"> <li>Computational Problem Solving</li> <li>System Architecture</li> </ul> <p>The BoS members approved the curriculum and it is resolved to submit to Academic Council for further approval</p>
8.	<p>Discussion on Curriculum of PG-M.C.A I to IV Semester R2025</p>	<p>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.</p> <p>II. The M.C.A. program is a two-years PG Programme and the curriculum offering advanced courses to</p> <ul style="list-style-type: none"> <li>Bridge the IT skill gap in areas like AI, Blockchain, Cloud Computing and Cybersecurity.</li> <li>Encourage interdisciplinary learning and problem-solving.</li> </ul>

		<ul style="list-style-type: none"> <li>• Boost employability with industry-relevant skills and strengthen ties with IT firms for internships and projects</li> </ul> <p><b>III. Total No. of credits for the PG programme(M.C.A) - 83</b></p> <p><b>IV. Preparation for I to IV semester subjects and Recommendations</b></p> <ul style="list-style-type: none"> <li>• Presented the proposed Curriculum R2025 for M.C.A Programme</li> </ul> <p><b>V. Curriculum shall meet the Requirements to pursue higher education &amp; Career guidance and startups &amp; entrepreneurship &amp; cross cutting issues</b> The proposed Curriculum meet the requirements to pursue higher education &amp; career guidance and start-ups &amp; entrepreneurship &amp; cross cutting issues.</p> <p><b>VI. Curriculum should improve innovative, design &amp; critical thinking skills and problem-solving abilities of students</b> The BoS members approved that the proposed Curriculum improves innovative, design &amp; critical thinking skills and problem-solving abilities of students</p> <p>The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.</p>
<b>9.</b>	<b>Discussion on Choice Based Credit System</b>	
	I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (ODD Semester) and planned to offer in 2024-25 (Even Semester)	<p>BoS chairman presented the list of NPTEL courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester).</p> <p>NPTEL courses offered in Odd semester of 2024-25</p> <ol style="list-style-type: none"> <li>1. Programming in Java</li> <li>2. Google Cloud Computing Foundations</li> <li>3. Introduction To Industry 4.0 And Industrial Internet of Things</li> <li>4. Operating System Fundamentals</li> <li>5. Cyber Security and Privacy</li> <li>6. Machine Learning and Deep Learning – Fundamentals and Applications</li> <li>7. Python for Data Science</li> </ol> <p>NPTEL courses planned to offer in Even semester of 2024-25</p> <ol style="list-style-type: none"> <li>1. Cloud Computing</li> <li>2. Data Analytics with Python</li> <li>3. Foundations of Cryptography</li> <li>4. Deep Learning for Natural Language Processing</li> <li>5. Introduction to Database Systems</li> <li>6. Introduction to Machine Learning</li> </ol> <p>The BoS members accepted the courses and it is resolved to submit to Academic Council for further approval</p>
	II. One credit course offered in 2024-2025 (ODD Semester) and planned to offer in 2024- 225 (Even Semester)	<p>The BoS members approved the one credit course planned to offer in 2024-225 (Even Semester)</p> <ul style="list-style-type: none"> <li>• Cyber Security (3 credits) TANSAM</li> </ul>



	<p>III. Skill based courses offered in 2024-25(ODD semester) and planned to offer 2024-25 (Even Semester)</p>	<p>BoS chairman presented the list of Skill based courses offered in 2024-2025 (ODD Semester) and planned to offer in 2024-2025 (Even Semester).</p> <p>Skill based courses offered in 2024-25(ODD semester)</p> <ul style="list-style-type: none"> <li>• Career Skill Development – II</li> <li>• Career Skill Development – IV</li> </ul> <p>Skill based courses planned to offer in 2024-25(EVEN semester)</p> <ul style="list-style-type: none"> <li>• Career Skill Development – I</li> <li>• Career Skill Development – III</li> <li>• Comprehension Test</li> <li>• Research Skill Development</li> </ul> <p>The BoS members accepted the above courses and it is resolved to submit to Academic Council for further approval</p>
	<p>IV. International Certification completed in 2024-25 (ODD semester) and identification of certifications for the forthcoming semesters.</p>	<p><b>BoS Members suggested the following certification courses for the forthcoming semesters</b></p> <p><b>Recommended Training and Certification Resources</b></p> <p>To enhance technical knowledge and professional readiness, students are encouraged to explore the following certification courses</p> <ul style="list-style-type: none"> <li>• <b>Linux Foundation Training and Certification Catalog</b></li> <li>• <b>CompTIA Network+ Certification</b></li> <li>• <b>CNCF (Cloud Native Computing Foundation) Training and Certification</b></li> </ul> <p>Students are also encouraged to do the International Certificates such as coursera, udemy and credits are given to the students for obtaining International Certificates.</p> <p>All BoS members appreciated the credits given to the students for obtaining International Certificates</p>
	<p>V. Roll out of laboratories classes to encourage students to participate in Design Contests, Hackathon, Ideathon, and similar activities.</p>	<p>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.</p>
	<p>VI. Evaluation pattern for Integrated courses, Project based &amp; System based courses</p>	<p>In integrated courses, Practical component is evaluated as a lab component. The BoS members accepted and approved the same.</p>

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. <a href="mailto:Guhan18398@gmail.com">Guhan18398@gmail.com</a> 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 <i>Industry Support</i>	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 <i>Industry Support</i>	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	<ul style="list-style-type: none"> <li>3 Credits can be offered to students as waiver or additional credits upon completion of International Certificates</li> <li>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</li> <li>One course from NPTEL shall be made mandatory for all UG programmes</li> </ul> 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

*M. S. S. 23/12/24*  
BoS Chairman

*S. S. S. 23/12/24*  
Dean Admin

*A. S. S. 23/12/24*  
Dean Academics

*S. S. S. 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



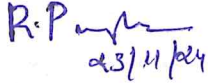
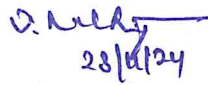




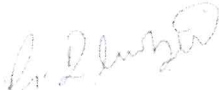

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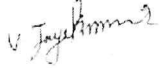







**IT**

**27<sup>th</sup> 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	 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		 23/11/24
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	

	prabha.s@vitap.ac.in Mobile: +91 98414 50282		
9	Dr. Jayakumar Vaithyashankar Asst.Professor (Senior Grade) Presidency University Bangalore E-mail: jayakumarsrit@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)**

S.No.	Agenda	Name & Nominee	Discussions / Suggestions	Action to be Taken	Responsibility	Target
	BoS Meeting No:27			Date:23.11.2024		Venue: IT Department Library
1.	Curriculum of UG programmes (R2026)	<p><b>Dr. S. Sikappi</b> (University Nominee)</p> <p><b>Dr.S.Kanmani</b> (University Nominee)</p> <p><b>Mr.Illanchezhan Ganesamurthy</b> ( Industry Member )</p>	<p>Suggested to include following the elective courses or specializations</p> <ul style="list-style-type: none"> <li>• <b>Service-Oriented Architecture (SOA) for Web Services</b></li> <li>• <b>Computer vision</b></li> </ul> <p>A <b>multidisciplinary project</b> approach is essential to bring together diverse branches like <b>Mechanical Engineering, Electrical Engineering</b>, and more.</p> <p>Suggested to equip students with foundational understanding of Automata Theory and their applications in Computation and Software Engineering subjects</p> <ul style="list-style-type: none"> <li>• Formal Languages and Automata Theory ( VI Semester)</li> <li>• Genetic Programming(VII Semester)</li> </ul> <p>Suggested to include the following courses.</p> <ul style="list-style-type: none"> <li>• Generative AI</li> <li>• Cloud Platforms</li> <li>• Natural Language Processing (NLP) text analytics</li> </ul> <p>Suggested to introduce the following topics in the Core Course <b>Data Mining and Data Analytics</b></p> <ul style="list-style-type: none"> <li>• Evaluation of Classification and Clustering</li> <li>• Pattern Mining</li> <li>• Web Mining</li> <li>• Pattern Recognition</li> </ul>	<p>Listed courses are included as electives in R-2026.</p> <p>The proposed suggestions are reviewed and finalized to include the same in R2026</p> <p>Listed courses are added as electives in R-2026</p> <p>Listed Courses are added as electives in R2026</p> <p>Suggested topics are incorporated in Data Mining and Data Analytics.</p>	<p>BoS Chairman</p> <p>BoS Chairman</p> <p>Module coordinator</p>	<p>Submitted to Academic Council for further approval</p> <p>Submitted to Academic Council for further approval</p> <p>Submitted to Academic Council for further approval</p>

		<p><b>Dr.Jayakumar Vaithyashankar</b> (Subject Expert)</p>	<p>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.</p>	<p>Suggestions are incorporated to address the gap in Mathematical concepts in ML and AI related courses.</p>	Module coordinator	
			<p>Suggested to include the Course <b>Quantum Machine Learning</b> in R2026 curriculum</p>	<p>Suggested course is included as electives in R-2026</p>		
		<p><b>Dr.Prabha Selvaraj</b> (Subject Expert)</p>	<p>Suggested to introduce "<b>Software Design &amp; Architecture</b>" as core in VI or VII semester to emphasize creative aspects of UI/UX aesthetics and human-computer interaction.</p>	<p>Suggested Course is included in VI semester R-2026 curriculum.</p>	BoS Chairman	Submitted to Academic Council for further approval
		<p><b>Mr.Devendran Muthukumarmani</b> (Alumni)</p>	<ul style="list-style-type: none"> <li>Suggested the following courses to enhance the curriculum to improve student employability <b>Generative AI, Quantum Machine Learning, Software Architecture</b></li> <li>To ensure successful project implementation, the suggested topics will be included. <b>DevOps and Software Architecture</b> with real-world case studies (e.g., <b>Netflix, UPI</b>) <b>Linux, Golang, and Rust</b> can be added as Modules as courses In R-2026.</li> </ul>	<p>Courses are added in R-2026</p>	Module coordinator	Submitted to Academic Council for further approval
			<p>Recommended for additional training modules and certifications.</p> <ul style="list-style-type: none"> <li>Linux Foundation Certification</li> <li>CompTIA Network+ Certification</li> <li>Cloud Native Computing Foundation</li> </ul>			
2.	<p><b>Revision in the Curriculum and Syllabi of R 2022 of UG Programmes</b></p>	<p><b>Mr.Devendran Muthukumarmani</b> (Alumni)</p>	<p>Suggested to embed Design Thinking course in V Semester.</p>	<p>As per the suggestion Design Thinking is offered in V Semester.</p>	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	<p>The BoS Chairman presented the following Open electives &amp; Value-Added Courses.</p> <p>Open Elective (2024-2025 Odd Semester Offered)</p> <ul style="list-style-type: none"> <li>• 60 IT L01 Python Programming</li> <li>• 60 IT L04 C# and .NET Framework</li> </ul> <p>Open Elective (2024-2025 Even Semester Planned)</p> <ul style="list-style-type: none"> <li>• 60 IT L02 Android App Development</li> <li>• 60 IT L03 Power BI</li> <li>• 60 IT L06 Data Analysis using 'R' Programming</li> </ul> <p>Value-added Courses Planned (2024-2025 Even Semester)</p> <ol style="list-style-type: none"> <li>1. Ethical Hacking</li> <li>2. Deep Learning</li> </ol> <p>The members of BoS committee approved the same. It is resolved to submit to Academic council for further approval.</p>				
5.	Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026)	<p><b>I. Total No. of credits for the UG programme - 162</b></p> <p><b>II Preparation for I to VIII semester subjects R2026, Curriculum for R 2026 and Recommendations</b></p> <ul style="list-style-type: none"> <li>▪ Presented the proposed Curriculum for I to VIII semester for R2026 (UG) and it is approved.</li> </ul> <p><b>III Curriculum shall meet the Requirements to pursue higher education &amp; Career guidance and startups &amp; entrepreneurship &amp; cross cutting issues</b></p> <ul style="list-style-type: none"> <li>▪ The proposed Curriculum meet the requirements to pursue higher education &amp; career guidance and start-ups &amp; entrepreneurship by offering the following courses <ul style="list-style-type: none"> <li>• Career Skill Development I, II, III, IV, &amp; V</li> <li>• Start-ups and Entrepreneurship</li> <li>• Research Skill Development</li> </ul> </li> </ul> <p><b>IV. Curriculum should improve innovative, design &amp; critical thinking skills and problem-solving abilities of students</b></p> <ul style="list-style-type: none"> <li>• The BoS members approved that the proposed Curriculum improves innovative, design &amp; critical thinking skills and problem-solving abilities of students</li> </ul> <p><b>V. Virtual Laboratories &amp; Industry sponsored / Specific Laboratories</b></p> <ul style="list-style-type: none"> <li>• Planned to use virtual laboratories for the following courses <ul style="list-style-type: none"> <li>• Data Structures Lab - <a href="http://vlabs.iitb.ac.in/vlabs dev/labs/dslab/">http://vlabs.iitb.ac.in/vlabs dev/labs/dslab/</a></li> <li>• Database Management Systems Laboratory - <a href="http://vlabs.iitb.ac.in/vlabs dev/labs/dblab/">http://vlabs.iitb.ac.in/vlabs dev/labs/dblab/</a></li> </ul> </li> </ul>				

- 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.

	<p><b>Discussion on Curriculum of PG-M.C.A I to IV Semester R2025</b></p>	<p><b>I. A new PG programme -M.C.A. will be introduced in computing departments in the upcoming year.</b> 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.</p> <p><b>II. The M.C.A. program is a two-years PG Programme and the curriculum offering advanced courses to</b></p> <ul style="list-style-type: none"> <li>• Bridge the IT skill gap in areas like AI, Blockchain, Cloud Computing and Cybersecurity.</li> <li>• Encourage interdisciplinary learning and problem-solving.</li> <li>• Boost employability with industry-relevant skills and strengthen ties with IT firms for internships and projects</li> </ul> <p><b>III. Total No. of credits for the PG programme(M.C.A) - 83</b></p> <p><b>IV. Preparation for I to IV semester subjects and Recommendations</b></p> <ul style="list-style-type: none"> <li>▪ Presented the proposed Curriculum R 2025 for M.C.A Programme.</li> </ul> <p><b>V. Curriculum shall meet the Requirements to pursue higher education &amp; Career guidance and startups &amp; entrepreneurship &amp; cross cutting issues</b> The proposed Curriculum meet the requirements to pursue higher education &amp; career guidance and Start-ups &amp; Entrepreneurship &amp; cross cutting issues.</p> <p><b>VI. Curriculum should improve innovative, design &amp; critical thinking skills and problem-solving abilities of students</b> The BoS members approved that the proposed Curriculum improves innovative, design &amp; critical thinking skills and problem-solving abilities of students</p> <p>The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.</p>
<p>6.</p>	<p><b>Discussion on Choice Based Credit System</b></p>	<p><b>I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Odd semester) and planned to offer in (EVEN semester) of 2024-25</b></p> <ul style="list-style-type: none"> <li>• <b>Self-study courses (NPTEL, MOOC) (2024-2025, Odd Semester)</b> <ul style="list-style-type: none"> <li>• Responsible and Safe AI system</li> <li>• Design and Implementation Human computer Interface</li> <li>• Cyber security and Privacy</li> <li>• Practical aspects of Cyber security for cyber Practitioner</li> </ul> </li> <li>• <b>Self-study courses (NPTEL, MOOC) proposed (2024-2025, Even Semester)</b> <ul style="list-style-type: none"> <li>• Fundamentals of Object Oriented Programming</li> <li>• Foundations of Cyber Physical Systems</li> <li>• Business Intelligence and Analytics</li> <li>• Introduction to Industry 4.0 and Industrial Internet of Things</li> <li>• Affective Computing</li> </ul> </li> </ul>

- 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	<b>TOTAL: 80</b> <ul style="list-style-type: none"> <li>• AICTE Internshala</li> <li>• Bhumi Ngo</li> <li>• WebSolGuru,</li> <li>• HackBMU</li> <li>• Reach Technologies</li> <li>• Verzeo</li> </ul>

			2	III	<b>TOTAL: 20</b> <ul style="list-style-type: none"> <li>• Next24tech Technology,</li> <li>• Nexus Logic Technologies</li> </ul>	
			3	II	<b>TOTAL: 11</b> <ul style="list-style-type: none"> <li>• Skillsweb</li> <li>• AICTE Internshala</li> </ul>	
7.	Stake holder's feedback and action taken	<b>S.No.</b>	<b>Name of Stake Holder</b>		<b>Stake holder's feedback</b>	<b>Action Taken</b>
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.	<b>Suggestions from IQAC</b>	<p>Suggested to focus on Value Added Courses on women empowerment like</p> <ul style="list-style-type: none"> <li>• Women Health</li> <li>• Human Rights - Coursera</li> <li>• Gender Equality through Inclusive Design - Coursera</li> <li>• Gender Equality and Women Empowerment – Udemy</li> </ul> <p>Suggested to focus on Minor Degree:</p> <ul style="list-style-type: none"> <li>• Offering a minor degree in Machine Learning, Data Science and artificial intelligence.</li> <li>• Offering a minor degree in Business and Entrepreneurship to the students wants to be an entrepreneur.</li> </ul> <p>It is resolved to submit the suggestions on Value Added Courses and Minor Degree Courses to Academic Council for further approval.</p>
9.	<b>Any Other Matter</b>	<ul style="list-style-type: none"> <li>• MLOPs can be given as one Credit or Value-added course</li> <li>• Suggested to offer Green Computing and Green IT and technology sustainability courses.</li> </ul> <p>The internal and external examiners list are presented by BoS Chairman and all the members approved the same.</p>

  
**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**


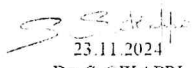


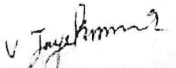
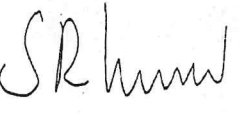
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**AI&DS****10<sup>th</sup> Board of Studies Meeting**

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: hodaid@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: jayakumarsrit@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	<i>Sarumathi</i>
9	Mr.N. Giridharan Assistant Professor/AI&DS/KSRCT Mail ID: giridharan@ksrct.ac.in Mobile No:8925325252	Member	<i>N. Giridharan</i> 23/11/2024
10	Ms.S. Gayathri Assistant Professor/AI&DS/KSRCT Mail ID: gayathris@ksrct.ac.in Mobile No:8667685818	Member	<i>Gayathri</i>
11	Mr.S. Raja Assistant Professor/AI&DS/KSRCT Mail ID: rajas@ksrct.ac.in Mobile No:7502821440	Member	<i>S. Raja</i> 23/11/2024
12	Mrs.I. Kalaimani Assistant Professor/AI&DS/KSRCT Mail ID: kalaimani@ksrct.ac.in Mobile No:9688224088	Member	<i>Kalaimani</i>
13	Mrs.P. Indhumathi Assistant Professor/AI&DS/KSRCT Mail ID: indhumathip@ksrct.ac.in Mobile No:9600505684	Member	<i>Indhumathi</i>
14	Mrs.S. Sripriya Assistant Professor/AI&DS/KSRCT Mail ID: sripriya@ksrct.ac.in Mobile No:9962435353	Member	<i>Sripriya</i>
15	Ms.Sowndharya A Department of Artificial Intelligence and Data Science	Student	<i>Sowndharya</i>
16	Mr.Bhargav Reddy M Department of Artificial Intelligence and Data Science	Student	<i>M. Bhargav Reddy</i>

*Moksh*  
23/11/24

**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)	<b>Dr. S. Sikappi, AU Nominee</b>	Suggested to include following elective courses or specializations related to AI and DS (Data Science) like <ul style="list-style-type: none"> <li>● Ethical Programming: Courses likely focusing on ethical considerations in the development and deployment of AI and Data Science Systems (e.g., fairness, transparency, privacy).</li> <li>● Professional Ethics: This could involve guidelines and ethical principles for working in tech fields, ensuring responsible use of data and AI.</li> <li>● Ethical Issues in AI&amp;DS: Specific focus on addressing biases, fairness, privacy issues, and the societal impacts of AI technologies.</li> </ul>	Listed courses are added as electives in R-2026.	BoS Chairman	Submitted to Academic Council for further approval
		<b>Dr.S.Kanmani</b>	Suggested to include the Core Courses to address the Computational Efficiency & Speed related subjects like <ul style="list-style-type: none"> <li>● Parallel Computing</li> <li>● Cloud Computing</li> </ul>	Listed courses are added as core courses in R-2026	BoS Chairman	Submitted to Academic Council for further approval
		<b>Mr.Illanchezhian Ganesamurthy, Industry Member</b>	Suggested to include the topics like Key Libraries & Tools in the following core courses. <ul style="list-style-type: none"> <li>● Data Science (DS) libraries</li> <li>● Deep Learning Libraries (DL)</li> <li>● ML Libraries</li> <li>● Cloud Platforms</li> </ul>	Key Libraries are Added in the core courses like data science, deep learning, Machine learning.	Module coordinator	Submitted to Academic Council for further approval

			<ul style="list-style-type: none"> <li>Parallel Computing &amp; High-Performance Computing</li> </ul>			
		<b>Dr.Prabha Selvaraj</b> <b>, Subject Expert</b>	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
		<b>Mr.Devendran Muthukumarmani,</b> <b>Alumni</b>	Suggested to include the Programming Languages like <ul style="list-style-type: none"> <li>Python</li> <li>Java/C++</li> <li>Scripting &amp; Libraries</li> </ul> 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
<b>2.</b>	<b>Revision in the Curriculum and Syllabi of VIII semester R 2018 of UG Programmes</b>	-	<ul style="list-style-type: none"> <li>Nil</li> </ul>			
	<b>Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes</b>	<b>Mr.Illanchezhian Ganesamurthy,</b> <b>Industry Member</b>	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
<b>3.</b>	<b>Minor and Honor degree course curriculum and syllabi in R2022 and R2018.</b>	<b>Dr. S. Sikappi,</b> <b>AU Nominee</b>	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
<b>4.</b>	<b>List of open elective courses and value-added courses</b>	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				

		<p>2. 60 AD L03 &amp; Generative AI Value-added Courses Planned (2024-2025 Even Semester)</p> <p>1. Network Programming 2. Gaming and virtual Reality</p> <p>The members of BoS committee approved the same. These courses are forwarded to Academic council for further approval.</p>
5.	<p><b>Discussion on Curriculum of I to VIII Semester for R 2026 (UG)</b></p>	<p><b>I. Total No. of credits for the UG programme - 163</b></p> <p><b>II. Preparation for I to VIII semester subjects R2022 and Recommendations</b></p> <ul style="list-style-type: none"> <li>▪ Presented the I to VIII semester Curriculum and it gets approved.</li> </ul> <p><b>III. Curriculum shall meet the Requirements to pursue higher education &amp; Career guidance and startups &amp; entrepreneurship &amp; cross cutting issues</b></p> <ul style="list-style-type: none"> <li>▪ The proposed Curriculum meet the requirements to pursue higher education &amp; career guidance and start-ups &amp; entrepreneurship by offering the following courses <ul style="list-style-type: none"> <li>• Career Skill Development I, II, III, IV, &amp; V</li> <li>• Start-ups and Entrepreneurship</li> <li>• Research Skill Development</li> </ul> </li> </ul> <p><b>IV. Curriculum should improve innovative, design &amp; critical thinking skills and problem-solving abilities of students</b></p> <ul style="list-style-type: none"> <li>• The BoS members approved that the proposed Curriculum improves innovative, design &amp; critical thinking skills and problem-solving abilities of students</li> </ul> <p><b>V. Virtual Laboratories &amp; Industry sponsored / Specific Laboratories</b></p> <ul style="list-style-type: none"> <li>• Planned to use virtual laboratories for the following courses <ul style="list-style-type: none"> <li>○ Data Structures Lab - <a href="http://vlabs.iitb.ac.in/vlabs dev/labs/dslab/">http://vlabs.iitb.ac.in/vlabs dev/labs/dslab/</a></li> <li>○ Database Design Laboratory - <a href="http://vlabs.iitb.ac.in/vlabs dev/labs/dblab/">http://vlabs.iitb.ac.in/vlabs dev/labs/dblab/</a></li> </ul> </li> <li>• Planned to introduce following core and new elective courses. <ul style="list-style-type: none"> <li>○ <b>Core Courses:</b> <ul style="list-style-type: none"> <li>▪ Essentials of Data Science.</li> <li>• Applied AI.</li> <li>• Data Visualization Techniques &amp; Tools.</li> </ul> </li> <li>○ <b>Elective Courses:</b> <ul style="list-style-type: none"> <li>• Computational Intelligence</li> <li>• Graph Theory</li> <li>• Cognitive Models for computing</li> <li>• Software Design Thinking</li> <li>• GPU Architecture and Programming</li> <li>• Embedded Systems</li> <li>• Quantum Computing Techniques</li> </ul> </li> </ul> </li> </ul>

		<ul style="list-style-type: none"> <li>● Programming for Data Science</li> <li>● Robotic Process Automation</li> <li>● Advanced Data Structures</li> <li>● Predictive Analytics</li> <li>● Cryptography and Network Security</li> <li>● Blockchain and Cryptocurrency</li> <li>● Security and Privacy in Cloud</li> <li>● Cyber Security</li> <li>● Advanced Networks</li> <li>● Ethical Hacking</li> <li>● Software Defined Networks</li> </ul> <p>The members of BoS meeting approved the Curriculum. It is resolved to submit it to Academic Council for further approval.</p>
6.	Discussion on Choice Based Credit System	<p><b>I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (Odd semester) and planned to offer in (EVEN semester) of 2024-25</b></p> <ul style="list-style-type: none"> <li>● <b>Self-study courses (NPTEL, MOOC) (2024-2025, Odd Semester)</b> <ul style="list-style-type: none"> <li>● The Joy of Computing using python</li> <li>● Design Thinking – A Primer</li> <li>● Software Testing</li> </ul> </li> <li>● <b>Self-study courses (NPTEL, MOOC) proposed (2024-2025, Even Semester)</b> <ul style="list-style-type: none"> <li>● Deep Learning for Natural Language Processing</li> <li>● Introduction to Industry 4.0 and Industrial Internet of Things</li> <li>● Social Networks</li> </ul> </li> </ul> <p><b>II. One credit course offered in 2024-25 (Odd semester) and planned to offer by industry in 2024-25(Even semester)</b></p> <ul style="list-style-type: none"> <li>● <b>One credit course offered in 2024-25 (Odd semester)</b> <ul style="list-style-type: none"> <li>▪ Nil</li> </ul> </li> <li>● <b>One Credit Course planned to offer (2024-25 Even Semester)</b> <ul style="list-style-type: none"> <li>▪ Augmented Reality</li> <li>▪ Amazon Web Services</li> <li>▪ Automation Using Raspberry PI</li> </ul> </li> </ul> <p><b>III. Skill based courses offered in 2024-25(Odd semester) and planned to offer 2024-25(Even semester)</b></p> <ul style="list-style-type: none"> <li>● <b>Skill based Courses offered in 2024-25(Odd semester)</b> <ul style="list-style-type: none"> <li>▪ Full Stack</li> <li>▪ Career Skill Development II</li> <li>▪ Career Skill Development IV</li> </ul> </li> </ul>

- **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	<b>TOTAL: 55</b> <ul style="list-style-type: none"> <li>• Marcello Tech (18)</li> <li>• Oasis Infobyte(13)</li> <li>• Insource Technologies (4)</li> <li>• Idea Tech (4)</li> <li>• Accent Techno Soft (3)</li> <li>• Pofy Technologies (2)</li> <li>• Tech Forge (5)</li> <li>• Prenetics(4)</li> <li>• Techvolt Software (2)</li> </ul>
2	III	<b>TOTAL: 25</b> <ul style="list-style-type: none"> <li>• Statix.pro (12)</li> <li>• Co cube AI(13)</li> </ul>
3	II	<b>TOTAL: 2</b> <ul style="list-style-type: none"> <li>• Statix.pro(2)</li> </ul>

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 <ul style="list-style-type: none"> <li>• Women Health</li> <li>• Human Rights - Coursera</li> <li>• Gender Equality through Inclusive Design - Coursera</li> <li>• Gender Equality and Women Empowerment – Udemy</li> </ul> Suggested to focus on Minor Degree: <ul style="list-style-type: none"> <li>• Offering a minor degree in Machine Learning, Data Science and artificial intelligence.</li> <li>• Offering a minor degree in Business and Entrepreneurship to the students wants to be an entrepreneur.</li> </ul>			
9.	Any Other Matter	The internal and external examiners list are presented by BoS Chairman and all the members approved the same.			

RMS  
17/12/24

*Abhi*  
17/12/24  
Dean-Academics

*Samy*  
17/12/2024  
Dean-Administration

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

*Prin*  
Principal

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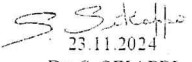


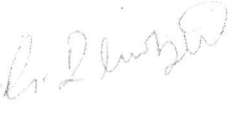
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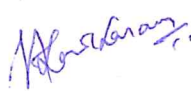
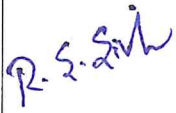

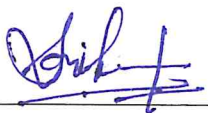



**CSE(AIML)****27<sup>th</sup> Board of Studies Meeting**


Date: 23.11.2024

Time: 09:00 am

Department	<b>CSE(Artificial Intelligence and Machine Learning)</b>		
Programme and Duration	<b>B.E. (CSE (Artificial Intelligence and Machine Learning), 4 years</b>		
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	
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)	
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: jayakumarsrit@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)  
**BOS Chairman / CSE(AIML)**  
 K. S. Rangasamy College of Technology  
 Tiruchengode - 637 215, Tamil Nadu, India

# 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.	<b>Curriculum and syllabi of VI R2022</b>	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.	<b>Revision in the Curriculum and syllabi of I – V Semester – R2022</b>	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.	<b>Curriculum and syllabi of I - VIII Semester – R2026</b>	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.	<ul style="list-style-type: none"> <li>The Intelligent agents based core paper is introduced.</li> <li>As per the suggestion it is planned to introduce “Quantum Computing “ as a separate module in Physics.</li> </ul>	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.	<b>Minor and Honor degree course curriculum in R2026</b>	The minor degree for R2026 will be offered under the vertical “Gaming Techniques”.					

5.	<b>List of open elective courses and value-added courses</b>	<ul style="list-style-type: none"> <li>• Exploratory Data Analysis is as offered as an Open Elective course in R2022.</li> <li>• 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.</li> </ul> <p>The BoS Members approved the same and submitted it to Academic Council for further approval.</p>
6.	<b>Discussion on Curriculum of I to VIII Semester for R 2026 (UG)</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Curriculum and syllabi meet the requirements to pursue higher education &amp; career guidance and startups &amp; entrepreneurship by offering the following courses <ul style="list-style-type: none"> <li>• Core Courses for GATE Preparation</li> <li>• Career Skill Development I, II, III, IV, &amp; V</li> <li>• Start-ups and Entrepreneurship</li> <li>• Research Skill Development</li> </ul> </li> </ul> <p>The BoS Members approved the same and submitted it to Academic Council for further approval.</p>
7.	<b>Discussion on Choice Based Credit System</b>	<p>The following NPTEL courses were offered in 2024-2025 (ODD Semester).</p> <ol style="list-style-type: none"> <li>1. Ethical Hacking</li> <li>2. Understanding Incubation and Entrepreneurship</li> <li>3. Demystifying Networking</li> <li>4. Introduction to Industry 4.0 and Industrial Internet of Things</li> <li>5. The Joy of Computing using Python</li> <li>6. Programming in Java</li> </ol> <p>The following NPTEL courses for 2024-2025 Even semester are planned to offer.</p> <ol style="list-style-type: none"> <li>1. The Joy of Computing using Python</li> <li>2. Introduction to Internet of Things</li> <li>3. Design Thinking</li> <li>4. Understanding Incubation and Entrepreneurship</li> <li>5. Introduction to Industry 4.0 and Industrial Internet of Things</li> </ol> <p>The following One credit courses for 2024-2025 Even semester are planned to offer.</p> <ol style="list-style-type: none"> <li>1. Application Development using LLM.</li> </ol> <p>The following International certification courses for 2024-2025 Even semester are planned to offer.</p> <ol style="list-style-type: none"> <li>1. Git &amp; GitHub Crash Course: Create a Repository from Scratch - Udemy</li> <li>2. Web Development - Udemy</li> </ol> <p>The following Life Skill Based courses for 2024-2025 Even semester are planned to offer.</p> <ol style="list-style-type: none"> <li>1. Career Skill Development I.</li> <li>2. Career Skill Development III.</li> </ol> <p>The BoS Members approved the same and submitted it to Academic Council for further approval.</p>

8.	<b>Internship Details – (2024-2025) ODD Semester</b>	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.	<b>Stake holders feedback and action taken report</b>	<b>S.No</b>	<b>Name of the Stakeholder</b>	<b>Name of the Course</b>	<b>Feedback</b>
		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.	<b>Suggestions from IQAC</b>	Value Added Courses focusing on Women & Empowerment i) Gender Equality through Inclusive Design ii) Gender Equality and Women Empowerment through Udemy			
11.	<b>Any other matters</b>	The internal and external examiners lists are presented by BoS Chairman and all the members approved the same.			

  
**BoS 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**



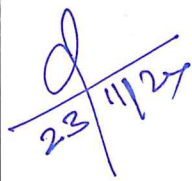

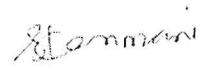
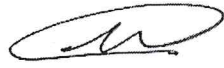



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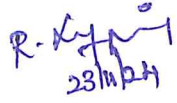



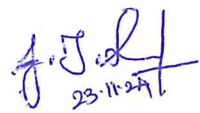

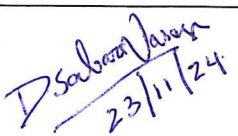
**CSBS**

**27<sup>th</sup> 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: jayakumarsrit@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	 23/11/24
9	Mr. R. Karthik Assistant Professor/CSBS/KSRCT Mail ID: karthikr@ksrct.ac.in Mobile No:9965010204	Subject Expert	 23/11/24
10	Mr. S. Vignesh Assistant Professor/CSBS/KSRCT Mail ID: vigneshs@ksrct.ac.in Mobile No:9944820102	Subject Expert	 23/11/24
11	Mr. P. Venkatesh Assistant Professor/CSBS/KSRCT Mail ID: venkateshp@ksrct.ac.in Mobile No:8903366916	Subject Expert	 23/11/24
12	Mrs. R. Logapriya Assistant Professor/CSBS/KSRCT Mail ID: logapriyar@ksrct.ac.in Mobile No:9965833885	Subject Expert	 23/11/24
13	Mr. K. Karthikeyan Assistant Professor/CSBS/KSRCT Mail ID: karthikeyank@ksrct.ac.in Mobile No:9952475246	Subject Expert	 23/11/24
14	Mrs. T. Udhaya Assistant Professor/CSBS/KSRCT Mail ID: udhaya@ksrct.ac.in Mobile No:8675587180	Subject Expert	 23/11/24
15	Dr. P. Manimaran Associate Professor/CSBS/KSRCT Mail ID: manimaran@ksrct.ac.in Mobile No:9894279891	Subject Expert	 23/11/24
16	Ms. Sangamithra J T Department of Computer Science and Business Systems Mail ID: jtmithra@gmail.com Mobile No: 6374151076	Student	 23/11/24
17	Mr. Maiarunkumar K Department of Computer Science and Business Systems Mail ID: kesavan5767@gmail.com Mobile No: 9942817005	Student	 23/11/24
18	Mr. Sabarevason D Department of Computer Science and Business Systems Mail ID: sabarevason2022@gmail.com Mobile No: 7299025956	Student	 23/11/24



# 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	<p>Suggested to offer Java Programming instead of "Java Full Stack".</p> <p>Suggested to offer electives to target the specific industries: Finance: FinTech, Algorithmic Trading, and Risk Management.</p>	<p>Offered Java Programming in the third semester.</p> <p>The following courses are included as Professional Electives in R2026. 1. FinTech Personal Finance and Payments 2. Introduction to FinTech 3. Risk Management.</p>	Module Co-ordinator	Submitted to Academic Council for further approval
		Mr.Devendran Muthukumarmani, Alumni	<p>Suggested to include the following content in Design Thinking course</p> <ul style="list-style-type: none"> <li>• Use frameworks like IDEO or Stanford Design Thinking to innovate business processes.</li> </ul>	<p>Included Design Thinking as a core subject.</p> <p>Frameworks like IDEO and followed Stanford Design Thinking business processes are considered in the syllabus.</p>	Module Co-ordinator	Submitted to Academic Council for further approval
			<p>Suggested to offer Quantum Computing for Optimization as an elective course. Recommended to</p>	<p>Offered Quantum Computing for Optimization as an</p>		

			include quantum concepts with business applications like portfolio optimization and risk analysis.	elective course.		
		<b>Mr. Illanchezhian Ganesamurthy, Industry Member</b>	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.	<b>Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes</b>	<b>K. Yeshwanth, System Engineer, TCS.</b>	<b>61 CB 402 - Design and Analysis of Algorithms</b> – 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.	<b>Minor and Honor degree course curriculum and syllabi in R2022 and R2018.</b>	Nil				
4.	<b>List of open elective courses and value-added courses</b>	<p>The BoS Chairman presented the following Open electives &amp; Value-Added Courses.</p> <p>Open Elective (2024-2025 Odd Semester Offered)</p> <p>1. 60 CB L02– Automation Testing Tools</p> <p>Open Elective (2024-2025 Even Semester Planned)</p> <p>1. 60 CB L02– Automation Testing Tools</p> <p>2. 60 AD L03 - Usability Design of Software Applications</p> <p>Value-added Courses Planned (2024-2025 Even Semester)</p> <p>1. Network Programming</p> <p>2. Gaming and virtual Reality</p> <p>The members of BoS committee approved the same. These courses are forwarded to Academic council for further approval.</p>				
5.	<b>Discussion on Curriculum of I to VIII Semester for R 2026 (UG)</b>	<p>I. Total No. of credits for the UG programme - 163</p> <p>II. Preparation for I to VIII semester subjects R2022 and Recommendations</p> <p style="padding-left: 40px;">➤ Presented the I to VIII semester Curriculum and it gets approved.</p> <p>III. Curriculum shall meet the Requirements to pursue higher education &amp; Career guidance and startups &amp;</p>				

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

		<ul style="list-style-type: none"> <li>• Natural Language Processing</li> <li>• Virtual and Augmented Reality</li> </ul> <p>VI. Additional courses offered</p> <ul style="list-style-type: none"> <li>• Nil</li> </ul> <p>The members of BoS meeting approved the Curriculum. It is resolved to submit it to Academic Council for further approval.</p>
6.	<b>Discussion on Choice Based Credit System</b>	<p>I. Self-study courses SWAYAM / NPTEL / MOOC courses offered in 2024-25 (ODD semester) and planned to offer in (EVEN semester) of 2024-25</p> <ul style="list-style-type: none"> <li>➤ Self-study courses(NPTEL,MOOC) (2024-2025, ODD Semester) <ul style="list-style-type: none"> <li>• Advanced Distributed Systems</li> <li>• Cloud Computing</li> <li>• The Joy of Computing Using Python</li> <li>• Introduction to Industry 4.0 and Industrial Internet of Things</li> </ul> </li> <li>➤ Self-study courses (NPTEL,MOOC) proposed (2024-2025, EVEN Semester) <ul style="list-style-type: none"> <li>• Python for Data Science</li> <li>• Natural Language Processing</li> </ul> </li> </ul> <p>II. One credit course offered in 2024-25 (Odd semester) and planned to offer by industry in 2024-25(Even semester)</p> <ul style="list-style-type: none"> <li>➤ One credit course offered in 2024-25 (Odd semester) <ul style="list-style-type: none"> <li>• Nil</li> </ul> </li> <li>➤ One Credit Course planned to offer (2024-25 Even Semester) <ul style="list-style-type: none"> <li>• Augmented Reality</li> <li>• Amazon Web Services</li> <li>• Automation Using Raspberry PI</li> </ul> </li> </ul> <p>III. Skill based courses offered in 2024-25(Odd semester) and planned to offer 2024-25(Even semester)</p> <ul style="list-style-type: none"> <li>➤ Skill based Courses offered in 2024-25(Odd semester) <ul style="list-style-type: none"> <li>• Full Stack</li> <li>• Career Skill Development II</li> <li>• Career Skill Development IV</li> </ul> </li> <li>➤ Skill based Courses planned to offer 2024-25(Even semester) <ul style="list-style-type: none"> <li>• Universal Human Values</li> <li>• Career Skill Development I</li> <li>• Career Skill Development III</li> </ul> </li> </ul> <p>IV.Roll out of laboratories classes to make students to participate in Design Contests, Hackathon and Ideathon, etc.</p> <ul style="list-style-type: none"> <li>• Computer Programming Laboratory - Codeathon</li> </ul>

- 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	<b>TOTAL: 12</b> <ul style="list-style-type: none"> <li>• Nulinz(3)</li> <li>• Rooteche(3)</li> <li>• Virtuospark(6)</li> </ul>
2	III	<b>TOTAL: 07</b> <ul style="list-style-type: none"> <li>• Ether Services(3)</li> <li>• Cube AI Solutions Pvt Ltd(1)</li> <li>• Nithra Apps(3)</li> </ul>
3	II	<b>TOTAL: 06</b> <ul style="list-style-type: none"> <li>• TechNuke(3)</li> <li>• Virtuospark(2)</li> <li>• Lantrasoft(1)</li> </ul>

## 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	<b>In R2026-</b> Offered the course System Design to facilitate scalable systems development.	System Design
2.	Sekar, Kowshikasri Accenture	<b>In R2026 –</b> To Promote Undergraduate Research, is included in lab Courses from the 2nd year itself to build research skills early.	All Lab Courses
		<b>In R2022 -</b> 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	<b>In R2026</b> <ul style="list-style-type: none"> <li>• Offered mandatory capstone projects to apply theoretical knowledge.</li> <li>• Collaborated with industries to provide live problem statements for projects.</li> </ul>	All Integrated and Project Based courses
		<b>In R2022 -</b> 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	<b>In R2026 –</b> Offered Design Thinking course to foster innovative thinking skills.	Design Thinking
		<b>In R2022 -</b> Topics like open API standards have been included.	60 CB 701 – Cloud Application Development
5.	Mrs.R.Dharani Capgemini Salem	<b>In R2026 -</b> Offered the course Project Management to develop competencies in organizing tasks, managing resources, and successfully delivering projects.	IT Project Management
		<b>In R2022 -</b> 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.

  
Dean - Academics

  
Dean-Administration

  
Principal

  
Dr. K. Sakhivel  
Chairman - BoS  
Computer Science and Business Systems  
(UG)

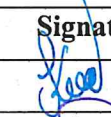
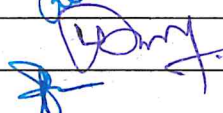

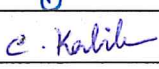
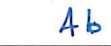
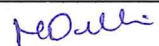
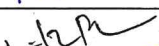
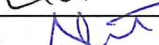
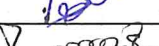
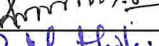
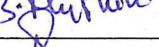


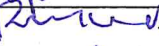

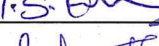
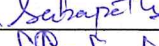
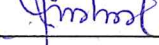

	<b>K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215</b> (An Autonomous Institution, affiliated to Anna University, Chennai and Approved by AICTE, New Delhi)	<b>BT</b>

### 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.Kalpna	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

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### 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.	<b>Curriculum of UG Programmes (R2026)</b>	Dr.P.Punietha Prabhu Dr.S.Poornima & Dr.M.Nithya	<b>Introduction of New Courses</b> 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.	<b>Curriculum and Syllabi of PG programmes (R2025)</b>	Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert)	<b>Introduction of New Courses</b> Semester I – 70 PBT 103 Semester II – 70 PBT 201 -Bio-Analytical Techniques, – 70 PBT 202-Computational modeling 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.	<b>Revision in the Curriculum and Syllabi of I to V semester (R2022) of UG Programmes and PG Programmes</b>	Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) & Dr.C. Kabilan (Industry Expert)	<ul style="list-style-type: none"> <li>➤ The BoS members suggested to standardize laboratory courses with 10 experiments each, focusing on advanced techniques and removing outdated experiments.</li> <li>➤ Updates will reflect industry-relevant practices.</li> </ul>	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.	<p><b>Curriculum and Syllabi for Minor and Honour Degree programmes (R2022 &amp; R2026) Discussion and Suggestion</b></p> <p>The proposed Curriculum and Syllabi for Honour Degree programmes (R2022 &amp; R2026) were presented by BoS Chairman. The list of courses are as follows.</p> <ul style="list-style-type: none"> <li>➤ 60 BT E16 /70 BT E16 - Food Biotechnology</li> <li>➤ 60 BT E26 /70 BT E26 - Organic Farming for Sustainable Agriculture</li> <li>➤ 60 BT E36 /70 BT E36 - Biotechniques in crop improvement</li> <li>➤ 60 BT E46 /70 BT E46 - Agricultural Biotechnology</li> <li>➤ 60 BT E56 /70 BT E56 - Biodiversity and its conservation</li> <li>➤ 60 BT E57 /70 BT E57 - Crop Production Technology</li> </ul> <p><b>Action taken</b></p> <p>The proposed curriculum and syllabi for the Honour Degree programmes (R2022 &amp; R2026), presented by the BoS Chairman, were passed in the meeting and submitted for approval in the Academic Council meeting.</p>						
5	<p><b>List of open elective courses and value- added courses</b></p> <p><b>List of open elective courses planned to offer in even Semester (2024-2025)</b></p> <ul style="list-style-type: none"> <li>➤ Agricultural Engineering</li> <li>➤ Animal Studies in Research</li> <li>➤ Production Technology of Agricultural and Food Processing Machinery</li> <li>➤ Pollution and its Management</li> <li>➤ Organic Farming for Sustainable Agriculture</li> <li>➤ Basics of Bioinformatics</li> </ul> <p><b>List of value- added course offered in Odd Semester (2024-2025)</b></p> <ul style="list-style-type: none"> <li>➤ Process Optimization using Mintab and Design Expert Software</li> </ul> <p><b>List of value- added courses planned to offer in even Semester (2024-2025)</b></p> <ul style="list-style-type: none"> <li>➤ Advanced techniques in Molecular Biology</li> <li>➤ Synthesis of Nanomaterials</li> <li>➤ BSF Technology</li> <li>➤ Computational Genomics</li> <li>➤ Food product development</li> </ul>						

	<ul style="list-style-type: none"> <li>➤ Phytochemistry and Natural Bioproducts</li> <li>➤ Basics of Biopython (Module 1 &amp; 2)</li> </ul> <p><b>Action taken</b> Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) &amp; 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.</p>
6.	<p><b>Discussion on proposed Curriculum for UG (I to VIII Semesters, R 2026) and PG (I to IV semesters, R2025) Programmes</b></p> <p><b>i. Total No. of credits for the UG programme</b> The Total No. of credits for the UG programme was proposed to be 164.</p> <p><b>ii. Curriculum for I to VIII semester Courses (R2026) and Recommendations</b> <b>Discussion and Suggestion</b> <b>Mathematics Papers:</b> 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 .</p> <p><b>Introduction of Python Programming:</b> 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 &amp; 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 &amp; 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 &amp; R.Manoj/Student Member proposed to <b>Integrate the Engineering Subjects:</b>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.</p> <p><b>Action Taken</b> Based on the suggestions from the BoS members, the modifications have been made and submitted to the Academic Council for approval.</p> <p><b>iii. Curriculum for I to IV semester Courses (R2025) and Recommendations</b> Dr. Arivanandhan, Dr. Selvamani &amp; 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.</p> <p><b>iv. Curriculum and syllabi to support progression to higher education, career guidance, Startups &amp; Entrepreneurship; cross cutting issues and Sustainable Development Goals (SDGs).</b> Dr. Arivanandhan, Dr. Selvamani &amp; Dr.C. Kabilan appreciated that the Biotechnology Department Curriculum and Syllabus support the progression to higher education, career guidance, Startups &amp; Entrepreneurship; cross cutting issues and Sustainable Development Goals (SDGs).</p> <p><b>v. Curriculum meeting the requirements of NEP 2020.</b> Dr. Arivanandhan, Dr. Selvamani &amp; Dr.C. Kabilan appreciated that the Biotechnology Department Curriculum and Syllabus satisfies the requirements of NEP 2020.</p> <p><b>vi. Curriculum and syllabi to support student involvement in innovative, design; critical thinking abilities and their problem-solving skills.</b> Dr. Arivanandhan, Dr. Selvamani &amp; 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.</p>

	<p><b>vii. Incorporation of Virtual Laboratory, Industry sponsored/supported courses and laboratories</b>          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 Laboratory and Industry sponsored Laboratories in association with Primas Biosciences, Perundurai.</p> <p><b>viii. Introduction of new courses</b>  <b>Introduction of New Courses</b>          Semester II - 70 CS 001 Problem Solving and Python Programming          Semester II - 70 CS 001 Problem Solving and Python Programming Laboratory          Semester III - 70 BT 305 Basic Industrial Biotechnology          Semester IV - 70 BT 402 Industrial 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 002 Process Economics and Industrial Management</p>
7.	<b>Discussion on Choice Based Credit System</b>
I	<p>The list of Self-study courses planned to offer in even semester of 2024-25 are as follows:</p> <ul style="list-style-type: none"> <li>➤ Introduction to Good Clinical Practices</li> <li>➤ DNA D Coded</li> <li>➤ Introduction to Forensic Science</li> <li>➤ Algae Biotechnology</li> </ul> <p>Online certification courses were appreciated by BoS members and it is submitted for the Academic Council for further approval.</p>
II	<p><b>One credit course planned to offer by industry in Even of 2024-25</b>  <b>Discussion / Suggestion</b>          Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) &amp; 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.</p>
III	<p>SWAYAM/ NPTEL/ MOOC courses offered in Odd Semester and planned to offer in Even of 2024-25</p> <p><b>List of NPTEL courses offered in Odd Semester</b></p> <ul style="list-style-type: none"> <li>➤ Drug Delivery Principles and Engineering</li> <li>➤ Experimental Biotechnology</li> <li>➤ Introduction to Developmental Biology</li> <li>➤ Environmental Biotechnology</li> </ul> <p><b>List of NPTEL courses planned to offer in Even of 2024-25</b></p> <ul style="list-style-type: none"> <li>➤ Environmental Biotechnology</li> <li>➤ Experimental Biotechnology</li> <li>➤ Genome Editing &amp; Engineering</li> <li>➤ Introduction to cell Biology</li> </ul> <p>Dr. Arivanandhan, (University Nominee) Dr. Selvamani (Subject Expert) &amp; 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.</p>

8.	<p><b>Stake holders feedback and action taken</b>  <b>Discussion and Suggestion</b>  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.</p> <p><b>Action Taken</b>  Based on the suggestion from stakeholders, the content of the courses are revised and submitted to academic council for approval.</p>	
9.	Suggestions from IQAC	<p><b>Value Added Courses focusing on women's empowerment</b>  i) Women Health &amp; Human Rights through Coursera  ii) Gender Equality through Inclusive Design through Coursera  iii) Gender Equality and Women Empowerment through Udemy  <b>Minor Degree:</b> a) Offering a minor degree in Machine Learning, Data Science and Artificial Intelligence to Students.</p>
10.	Any other matters	<ul style="list-style-type: none"> <li>➤ The BoS members approved the proposed assessment methodology, which includes a blend of direct (80%) and indirect (20%) measures.</li> <li>➤ 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 .</li> <li>➤ Gratitude expressed to Dr. Kabilan for facilitating the industry-supported lab upgradation for courses like Bioprocess and Downstream Processing.</li> </ul>


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BoS Chairman

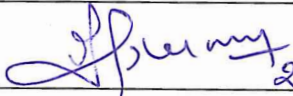

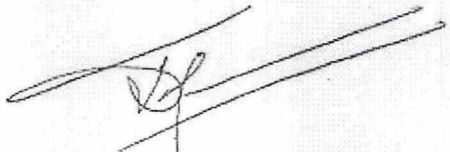
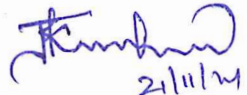

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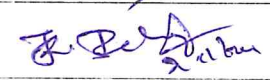
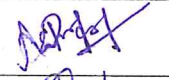

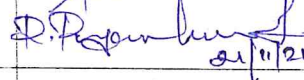

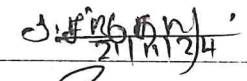
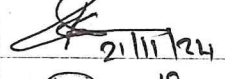


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Principal

	<b>K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215</b> (An Autonomous Institution, affiliated to Anna University, Chennai and Approved by AICTE, New Delhi)	<b>FT</b>
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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	 21.14.24
2	Dr. M. Arivanandhan	Professor, Centre for Nanoscience and Technology, Anna University, Chennai - 600 025.	University Nominee	 21/11/24
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	 21/11/24
5	Dr. Sathiyamoorthy	Managing Director, Moon Foods, Tiruchengode, Namakkal.	Industry Expert	 21.17.24

6	Srinivasan. R	Senior Officer - QA/QC CP Norfolk India Pvt Ltd. Chittoor	Alumni	 24/11/2024
7	Mr. T. G. N. Nagarjun	Assistant Professor - KSRCT	BOS-Member Coordinator	 21/11/24
8	Dr. K. Prabha	Associate Professor - KSRCT	BOS-Member	 21/11/24
9	Dr. J. Balachandra Mohan	Associate Professor - KSRCT	BOS-Member	 24/11/24
10	Dr.K. Balasubramani	Associate Professor - KSRCT	BOS-Member	 21/11/24
11	Dr. A. S. Ruby Celsia	Assistant Professor - KSRCT	BOS-Member	 21/11/24
12	Mr. G. Bharath	Assistant Professor - KSRCT	BOS-Member	 21/11/24
13	Mr. R. Pugazh Vendhan	B.Tech FT – Third Year	Student	 21/11/24
14	Ms. R. Tejashwini	B.Tech FT – Third Year	Student	 21/11/24
15	Mr. S. Santhosh	B.Tech FT – Second Year	Student	 21/11/24
16	Mr. R. Kamalanarayanan	B.Tech FT – Second Year	Student	 21/11/24
17	Mr. S. Theivam	B.Tech FT – Second Year	Student	 21/11/24
18.	Ms. K. Kavishree	B.Tech FT – Second Year	Student	 21/11/24

**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)	<b>Semester I</b> ➤ 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. T.V. Ranganathan (Subject Expert)					
		Dr. M. Arivanandhan	<b>Semester II</b> ➤ Suggested to reframe the	➤ As per the suggestion, "Environmental Studies	BoS Chairman	Updated in Curriculum of	Submitted to Academic Council



		<p>(University Nominee)</p> <p>Dr.T.V. Ranganathan (Subject Expert)</p> <p>Dr. M. Arivanandhan (University Nominee) -</p>	<p>title "Environmental Studies and Climate Change" to Environmental Science and Climate Change.</p> <p>➤ Suggested to offer core subjects from the first or second semester to build a strong foundation in the discipline.</p> <p>➤ 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.</p>	<p>and Climate Change" renamed as Environmental Science and Climate Change.</p> <p>➤ As per the suggestion, Core course - Food Processing and Preservation is included in the second semester.</p> <p>➤ As per the suggestion, Engineering Mechanics course is removed from the curriculum -</p>		<p>II Semester of R2026(UG)</p>	<p>for further approval</p>
		<p>Dr. Sathiyamoorthy (Industry Expert)</p>	<p><b>Semester III</b> Suggested to merge Food Process Engineering – I &amp; II.</p>	<p>As per the suggestion, Food Process Engineering – I &amp; II are merged and offered as Food Process Engineering.</p>	<p>BoS Chairman</p>	<p>Updated in Curriculum of III Semester of R2026(UG)</p>	<p>Submitted to Academic Council for further approval</p>
		<p>Dr. Sathiyamoorthy (Industry Expert)</p>	<p><b>Semester IV</b> Suggested to add Food Analysis Laboratory instead of Sensory Evaluation Laboratory.</p>	<p>As per the suggestion, Food Analysis Laboratory is added instead of Sensory Evaluation Laboratory.</p>	<p>BoS Chairman</p>	<p>Necessary updation are carried out in Curriculum of IV Semester of R 2026(UG)</p>	<p>Submitted to Academic Council for further approval</p>
		<p>Dr. M. Arivanandhan (University Nominee)</p>	<p>Suggested to limit mathematics courses to three semesters instead of four, ensuring focused learning without redundancy.</p>	<p>As per the suggestion, the mathematics courses are offered in I, II and III Semester.</p>	<p>BoS Chairman</p>	<p>Updated in Curriculum of I, II, III Semester of R2026(UG)</p>	<p>Submitted to Academic Council for further approval</p>

<b>Curriculum of R2025(PG)</b>	Dr.T.V. Ranganathan (Subject Expert)	<b>Semester I</b> 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)	<b>Semester II</b> 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)	<b>Semester III</b> 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)	<b>Semester III</b> 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)	Dr.T.V. Ranganathan (Subject Expert)	<b>Semester III</b> 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
	ii) Revision in the Syllabi of VIII Semester - R 2018 (UG)	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)	<b>Professional Elective Courses: Verticals / Honours Degree – R2026</b> ➤ 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.	<p><b>List of open elective courses and value-added courses offered in 2024-25 (Odd Semester) and planned to offer in 2024-25 (Even semester)</b></p> <p><b>List of Open Elective courses offered in 2024-2025 (Odd)</b></p> <ul style="list-style-type: none"> <li>• Livestock's, Poultry and Fish Production Management</li> </ul> <p><b>List of value-added courses offered in 2024-2025 (Odd)</b></p> <ul style="list-style-type: none"> <li>• FoSTaC</li> <li>• MINITAB &amp; MATLAB</li> </ul> <p><b>List of open Elective courses planned to offer in 2024-2025 (Even)</b></p> <ul style="list-style-type: none"> <li>• Nutrition and Healthy Life</li> <li>• Livestock's, Poultry and Fish Production Management</li> </ul> <p><b>List of value-added courses planned to offer in 2024-2025 (Even)</b></p>						

- 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
2	Moon Foods	Laboratory

**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.

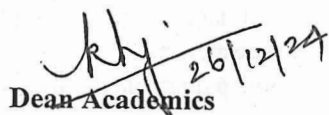
**Stake holders feedback and action taken**

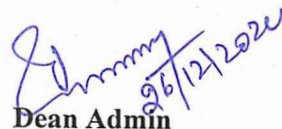
**R2026 curriculum & R2022 syllabi**

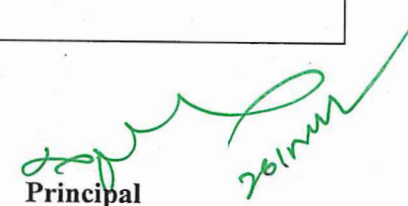
Name of the Stakeholder	Type of the stakeholder	Feedback / Suggestions	Action Taken
Dr. J. Philip Robinson	Faculty	The curriculum was compared with AICTE as a member of PAC and DAB, and other members helped construct the preliminary R2026 curriculum draft.	The curriculum was aligned with AICTE norms 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 <ul style="list-style-type: none"> <li>➤ Incorporating Emerging Technologies: Include sections on the use of automation and robotics in slaughterhouses and meat processing for better efficiency and hygiene.</li> <li>➤ 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.</li> </ul>	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.Vidhyaprabakaran		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	<b>Value Added Courses focusing on women's empowerment</b> 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	<b>Suggestions:</b> <ul style="list-style-type: none"> <li>• Members suggested that the quality of the Internal assessment tests and End semester examination question papers has to be maintained considering university norms.</li> <li>• The BoS members suggested to offer credits for Tamil courses.</li> </ul>	<b>Action Taken:</b> The suggestions are under discussion and will be resolved when the R2026 curriculum is finalized.	

  
BoS Chairman

  
Dean Academics

  
Dean Admin

  
Principal

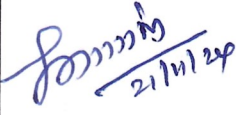
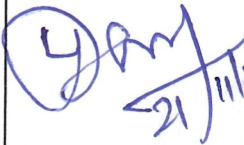

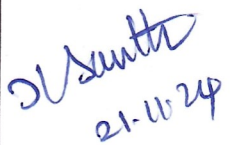
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**(An Autonomous Institution, affiliated to Anna University, Chennai and**


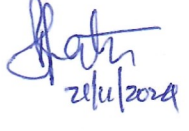

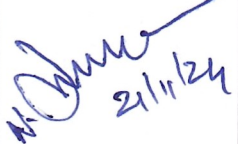

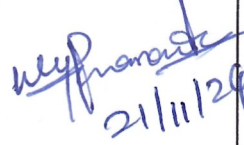
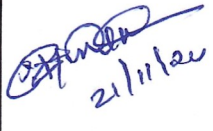
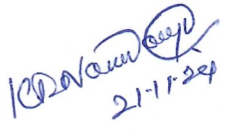
**Approved by AICTE, New Delhi)**


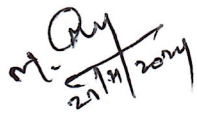
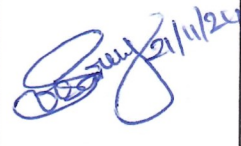
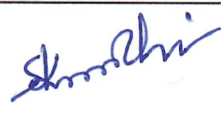



**ATTENDANCE OF 27<sup>th</sup> BOARD OF STUDIES**

**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.	<b>Dr. G. Karthikeyan</b> 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.	<b>Dr. M. Arivanandhan</b> 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.	<b>Dr. V. Ramesh Babu</b> 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.	<b>Dr.J.C.Sakthivel</b> 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.	<b>Mr. P. Karnan</b> 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.	<b>Mr.S. Arunprasad</b> Managing Director, Aishwariyaa Packaging Tirupur E-Mail id : arunvbg@gmail.com Mobile No. : 9500544205	Alumnus	
7.	<b>Dr. M.B. Sampath</b> Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : sampath@ksrct.ac.in	Member (Subject Expert from the department)	
8.	<b>Dr. K. Saravanan</b> Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : saravanan.k@ksrct.ac.in		
9.	<b>Dr. N. Sukumar</b> Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : sukumar@ksrct.ac.in		
10.	<b>Dr. M. Bharani</b> Asso. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : bharanim@ksrct.ac.in		
11.	<b>Mr. G. Devanand</b> Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : devanandg@ksrct.ac.in		
12.	<b>Dr. C. Premalatha</b> Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : premalatha@ksrct.ac.in		
13.	<b>Dr. K.R. Nandagopal</b> Asst. Professor Dept. of Textile Technology, K. S. Rangasamy College of Technology Email Id : nandagopal@ksrct.ac.in		

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		

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**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)	<ul style="list-style-type: none"> <li>Include industry-relevant subjects such as Industry 4.0 applications, functional textiles, and sustainable textile</li> <li>Add more content on innovative practices and quantitative techniques in professional core subjects in R2026</li> </ul>	Revise as per recommendations	MC/CD	10.01.2025	
		Dr. M. Arivanandhan (University Nominee)	<ul style="list-style-type: none"> <li>Include the TAG, and DSC experiments in the R2026</li> <li>Suggested including Nanotechnology in practical / laboratory courses.</li> </ul>				
		Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	<ul style="list-style-type: none"> <li>Plan for implementing sustainable product development- based Experiments using available machineries</li> <li>Course outcome should be modified with action verbs of RBT</li> </ul>				

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)	<ul style="list-style-type: none"> <li>• Include smart textiles, functional textiles, and medical textiles.</li> <li>• Incorporate SPSS/Minitab for quality evaluation labs and include analytical courses to enhance research and focus on advanced technologies.</li> </ul>	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)	<ul style="list-style-type: none"> <li>• Add weaving preparatory machines with electronic clearers in Fabric Manufacturing Technology I.</li> <li>• Add higher-order thinking skills in COs.</li> <li>• Implement Product development-based Experiments using available machineries</li> </ul>	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	<ul style="list-style-type: none"> <li>• Members suggested to Include advanced practical experiments and align electives with NEP 2020.</li> </ul>	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)	<b>UG : 164 Credits</b> <b>PG : 72 Credits.</b>	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)	<p>ii. Curriculum for I to VIII Semester Courses (R2026) and Recommendations</p> <ul style="list-style-type: none"> <li>Incorporate cross-disciplinary electives with a focus on data analytics and IoT.</li> <li>Enhance industry collaborations for practical exposure through internships and sponsored projects.</li> </ul>	<ul style="list-style-type: none"> <li><b>Core Courses:</b> Covering Fibre Science, Yarn Manufacturing, Fabric Manufacturing, Textile Chemical Processing, Knitting Technology, and Speciality Textiles.</li> <li><b>Elective Courses:</b> Options in advanced topics like Functional Finishes, High Performance Fibres, and protective textiles</li> <li><b>Skill-Based Courses:</b> Career guidance courses, internships, and project work ensure hands-on learning.</li> <li><b>Innovation and AI:</b> Incorporating courses like Artificial Intelligence and Machine Learning in Textiles</li> <li><b>Sustainability:</b> Courses such as Technical Textiles and Sustainable Textile Processing focus on environmentally friendly practices.</li> </ul>	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)	<b>iii. Curriculum for I to IV Semester Courses (R2025) and Recommendations</b>  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.	<ul style="list-style-type: none"> <li>The curriculum is incorporated with Specialty Textile Materials, Sustainable Textile Processing, Smart and Functional Textile and Artificial Intelligence &amp; Machine Learning.</li> <li>In addition it is also given with courses like High-Performance Fibres, Functional Finishes, and Textile Composites</li> <li>PG curriculum is incorporated with Project Work (Phase I &amp; II) and Project planning and Management</li> </ul>	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)	<b>iv. Curriculum and Syllabi to Support Progression to Higher Education, Career Guidance, Startups &amp; Entrepreneurship &amp; SDGs</b>	<p><b>Career Guidance:</b></p> <ul style="list-style-type: none"> <li>Career Skill Development courses are included across semesters to enhance employability.</li> <li>As per the Regulation the Curriculum is incorporated with Inplant training and Internship.</li> </ul> <p><b>Start ups &amp; Entrepreneurship:</b></p> <ul style="list-style-type: none"> <li>The Curriculum is designed with dedicated courses like Startups and Entrepreneurship.</li> </ul>	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
				<ul style="list-style-type: none"> <li>○ Opportunities for hands-on projects in innovation labs and industry-sponsored initiatives.</li> </ul> <b>SDGs:</b> <ul style="list-style-type: none"> <li>○ In addition Curriculum focus on sustainability through courses like Sustainable Textile Processing and Environmental Science.</li> </ul>			
	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)	<b>v. Curriculum Meeting the Requirements of NEP 2020</b>  Members suggested to incorporate <ul style="list-style-type: none"> <li>• Flexibility in electives, enabling multidisciplinary learning.</li> <li>• Introduction of Design Thinking and Critical Thinking courses.</li> <li>• Focus on life skills and universal human values for holistic development</li> </ul>	As per 2022 regulations; 2026 regulations, we have courses like <ol style="list-style-type: none"> <li>1. Professional Electives,</li> <li>2. Design Thinking and Design Innovation Courses</li> <li>3. The Curriculum also has UHV, Tamils and Technology, Tamilology</li> </ol>	--	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)	<b>vi. Curriculum &amp; Syllabi to Support Student Involvement in Innovative, Design &amp; Critical Thinking Abilities and Problem-Solving Skills</b> <ul style="list-style-type: none"> <li>• Courses like Design Thinking, Fabrication &amp; Reverse Engineering Lab, and Innovation Labs encourage creativity.</li> </ul>	Approved and Rollout	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
			<ul style="list-style-type: none"> <li>• Research projects and capstone projects in the final year foster problem-solving skills.</li> <li>• Emphasis on AI and machine learning applications in textiles adds to design-oriented learning.</li> </ul>				
	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)	<b>vii. Incorporation of Virtual Laboratory &amp; Industry Sponsored/Supported Courses and Laboratories</b> <ul style="list-style-type: none"> <li>• Virtual Labs: Include Python Programming Lab, Fabrication Lab, and AI applications lab.</li> <li>• Industry-Supported Labs: Apparel Manufacturing Lab and Textile Testing Lab collaborate with industry leaders for hands-on training.</li> </ul>	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)	<b>viii. Introduction of New Courses</b> <ul style="list-style-type: none"> <li>• Functional Textiles.</li> <li>• Lean and Six Sigma in Textiles.</li> <li>• Textile and Apparel Quality Evaluation.</li> <li>• AI and Machine Learning for Textiles.</li> <li>• Speciality Textile Materials</li> </ul>	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)	<p><b>i. Self-Study Courses (SWAYAM/NPTEL/MOOC) Offered in 2024-25</b></p> <p><b>Odd Semester: NPTEL (2024-25):</b></p> <p><b>2. Proposed Courses:</b></p> <ul style="list-style-type: none"> <li>• Principles Of Combing, Roving Preparation and Ring Spinning – II Year</li> <li>• Science and Technology of Weft and Warp Knitting – III Year</li> <li>• Supply Chain Management and Logistics – IV year</li> </ul> <p><b>Even Semester: NPTEL (2024-25):</b></p> <p><b>3. Proposed Courses:</b></p> <ul style="list-style-type: none"> <li>• Advanced Textile Printing Technology</li> <li>• Evaluation of Textiles Materials</li> <li>• New Spinning Technologies</li> <li>• Testing of Functional and Technical Textiles</li> <li>• Textile Product Design and Development</li> <li>• Textured Yarn Technology</li> <li>• Theory of Yarn Structure.</li> </ul>	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	<p><b>ii. One Credit Courses Offered in 2024-2025</b></p> <p><b>Odd Semester (2024-25):</b></p> <ul style="list-style-type: none"> <li>• <b>Completed One Credit Courses:</b></li> <li>• Quality and Process Control for Textile Manufacturing</li> </ul> <p><b>Even Semester (2024-25):</b></p> <ul style="list-style-type: none"> <li>• <b>Proposed One Credit Courses:</b></li> <li>• Eco friendly Dyeing</li> </ul>	Approved and Rollout	--	Continuous	

S. No	Agenda Item	Name & Nominee	Discussion / Suggestions	Action to be Taken	Responsibility	Target Date	Remarks
			<ul style="list-style-type: none"> <li>Process Control in the Garment Industry</li> <li>Information Technology in Apparel and Fashion Industry</li> </ul>				
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	<b>iii. Skill-Based Courses Offered in 2024-25</b> <b>Odd Semester (2024-25):</b> <ul style="list-style-type: none"> <li>Proposed Skill-Based Courses:</li> <li>Knitting Technology</li> <li>Textile Chemical Processing II</li> </ul> <b>Even Semester (2024-25):</b> <ul style="list-style-type: none"> <li>Proposed Skill-Based Courses:</li> <li>Garment Manufacturing Technology I</li> <li>Textile and Apparel Quality Evaluation</li> </ul>	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	External and Internal Members	<b>iv. International Certification in 2024-25 and Identification of Future Certifications</b> <b>Odd Semester (2024-25): NIL</b> <b>Even Semester (2024-25):</b> <ul style="list-style-type: none"> <li>Planned Certifications:</li> <li>Lean Six Sigma in Textiles.</li> <li>IoT and Smart Textiles Certifications</li> </ul>	Approved and Rollout	--	Continuous	
	Discussion on Choice Based Credit System	Dr. J.C. Sakthivel (Subject Expert) Dr.V. Ramesh Babu (Subject Expert)	<b>v. Roll Out of Laboratory Classes to Encourage Design Contests, Hackathons, and Ideathons</b> <ul style="list-style-type: none"> <li>Proposed Enhancements:</li> <li>Innovation Labs:</li> <li>Textile CAD Lab</li> <li>Contests Participation:</li> <li>Garment Construction Laboratory II</li> </ul>	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	<b>vi. Evaluation Pattern for Integrated, Project-Based &amp; System-Based Courses</b> <ul style="list-style-type: none"> <li>Members suggested to incorporate project-based learning and system based courses</li> </ul>	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	<b>vii. Internship Details of Students (2nd, 3rd &amp; 4th Year)</b>  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	<ul style="list-style-type: none"> <li>Open Electives: Fibre Science, Basic Textile Technology, Introduction to Fashion and Industrial Textiles.</li> </ul>	Approve and roll out courses.	MC/PC	--	
9.	Stakeholders' Feedback and Action Taken Report.	Stakeholder	<ul style="list-style-type: none"> <li>Suggested to remove outdated content, integrate automation technologies, and focus on sustainability practices.</li> </ul>	Review and update curriculum R2022, R2025(PG), R2026(UG).	MC	Continuous	
10.	Suggestions from IQAC.	IQAC	<ul style="list-style-type: none"> <li>Proposed Curriculum modernised to align with industry practice and sustainability</li> </ul>	Implement changes progressively.	MC	Continuous	
11.	Any Other Matters.	Internal and External Members	<ul style="list-style-type: none"> <li>Introduce innovative course designs emphasizing industry-sponsored courses.</li> <li>Include additional advanced practical experiments in core subjects. Combine nonwoven technology within Fabric Manufacturing Technology I &amp; II</li> <li>Address content repetition in electives.</li> </ul>	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
			<ul style="list-style-type: none"> <li>• Introduce thrust area programs such as technical textiles and material Characterisation.</li> <li>• Offer more SWAYAM/NPTEL courses and introduce project-based evaluations.</li> <li>• Focus on self-study and one-credit courses to enhance interdisciplinary learning.</li> </ul>				

*[Signature]*  
12/17/24.  
**BoS Coordinator**

*[Signature]*  
12/12/24  
**HoD-Textile**

*[Signature]*  
12/12  
**Dean Academics**

*[Signature]*  
12/12/2024  
**Dean Admin**

*[Signature]*  
**Principal**



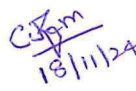


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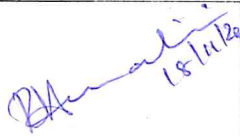


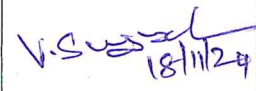
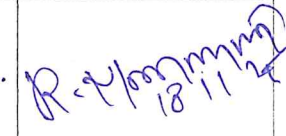



DEPARTMENT OF MANAGEMENT STUDIES

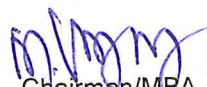
Board of Studies Meeting

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	 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, Mettur Taluk, Salem Dist 636 453 Tamil Nadu, India Mobile no 7904652498 Mail ID: ram.chandrasekar@jsw.in	Expert from Industry	 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.Muruganesh 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	

  
Chairman/MBA 18/11/2024

# 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	<b>2024-25</b>	-
		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			



			<p>60 MB 201 – Production Management</p> <p>60 MB 202 – Human Resources Management</p> <p>60 MB 203 – Marketing Management</p> <p>60 MB 4F2 - Insurance Management</p> <p>60 MB 4H2 – Performance Management</p>	<p>below mentioned subjects.</p> <p>60 MB 201 – Production Management – Cross-docking – Inventory KPI – AI and Machine learning in production improvement</p> <p>60 MB 202 – Human Resources Management – Management of turnover and retention – Role of globalization in HRM.</p> <p>60 MB 203 – Marketing Management – Ecommerce in Marketing.</p> <p>60 MB 4F2 - Insurance Management – Financial Frauds in market.</p> <p>60 MB 4H2 – Performance Management – Team based management</p>			
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			<p>60 MB 4H1 – Competency Management</p> <p>60 MB 4O1 – Logistic Management</p>	<p>strategy – Modern techniques.</p> <p>60 MB 4H1 – Competency Management – Managing next Generation Z Employees</p> <p>60 MB 4O1 – Logistic Management – Route optimization – AI and Machine learning</p>		
4.	<b>List of open elective courses and value-added courses</b>	Value added course like Power Bi, SAP ERP and Design Thinking were suggested by BOS members.				
5.		<p>i. Discussion about R 2025 total credits of 102 was designed. BoS members agreed the total credits without any change</p> <p>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.</p> <p>Recommendations considered are as follows:</p> <p>Members suggested few modifications as follows:</p> <ol style="list-style-type: none"> <li>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 behaviour.</li> <li>The MIS course can be included in the first semester. The MIS course was included in the first semester.</li> <li>The summer internship and the project work together can be provided for 3 months as one internship cum project.</li> </ol>				

<p><b>Discussion on I to proposed curriculum of IV Semester for R 2025(PG)</b></p>	<p>The suggestion on the internship and the project work courses were taken forward for further discussion.</p> <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> <li>• Career guidance (Professional Development lab I, II and III)</li> <li>• Startups &amp; entrepreneurship ( Core subject Entrepreneurship development and Internship)</li> </ul> <p>SDG goals (Core subject Sustainable development and Social Immersion project) were covered</p> <p>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</p> <p>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.</p> <p>Curriculum R2025 supports student involvement in innovative, design &amp; critical thinking abilities through following courses such as:</p> <ul style="list-style-type: none"> <li>• Business analytics</li> <li>• Business Statistics</li> <li>• Operations research</li> <li>• Design thinking</li> </ul> <p>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.</p> <p>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</p> <p>The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.</p>
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<p>6.</p>	<p><b>Discussion on Curriculum of PG-M.C.A I to IV Semester R2025</b></p>	<p>i. Discussion on new PG programme -M.C.A. to be introduced in computing departments in the upcoming year</p> <p>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.</p> <p>ii. The M.C.A. program is a two-years PG Programme and the curriculum offering advanced courses to</p> <ul style="list-style-type: none"> <li>• Boost employability with industry-relevant skills and strengthen ties with IT firms for internships and projects</li> <li>• Encourage interdisciplinary learning and problem-solving.</li> <li>▪ Presented the proposed Curriculum R 2025 for M.C.A Programme.</li> </ul> <p>iii. Total No. of credits for the PG programme(M.C.A) - 83</p> <p>The proposed Curriculum meet the requirements to pursue higher education &amp; career guidance and start-ups &amp; entrepreneurship &amp; cross cutting issues.</p> <p>iv. Preparation for I to IV semester subjects and Recommendations</p> <p>The BoS members approved that the proposed Curriculum improves innovative, design &amp; critical thinking skills and problem-solving abilities of students</p> <p>v. Curriculum shall meet the Requirements to pursue higher education &amp; Career guidance and startups &amp; entrepreneurship &amp; cross cutting issues</p> <p>vi. Curriculum should improve innovative, design &amp; critical thinking skills and problem-solving abilities of students</p> <p>The members of BoS Committee approved the Curriculum. It is resolved to submit it to Academic Council for further approval.</p>
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7.	<b>Discussion on Choice Based Credit System</b>	<p>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</p> <p>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.</p> <p>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.</p> <p>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.</p>
8.	<b>Stake holders feedback and action taken</b>	<p>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</p> <p>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</p>
9.	<b>Suggestions from IQAC</b>	<p>Value added course can be given based industry requirement. Like power Bi and SAP courses.</p>
10.	<b>Any other matters</b>	<p>i. BoS Members reviewed Vision, Mission Program Educational Objectives, Program Objectives of the department</p> <p>All the BoS members were satisfied with the present Vision, Mission Program Educational Objectives, Program Objectives of the department.</p>

	<p>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.</p> <p>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.</p> <p>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.</p>
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BoS Chairman

  
Dean Admin

  
Principal

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





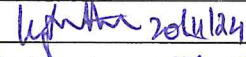
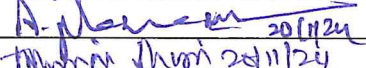
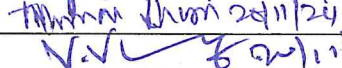
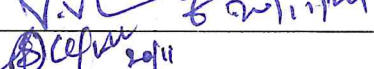
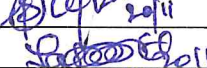
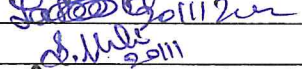
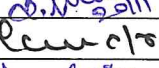



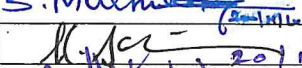
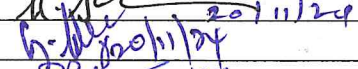
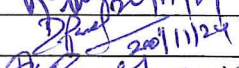
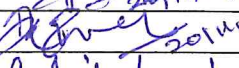
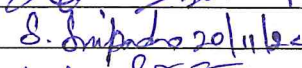
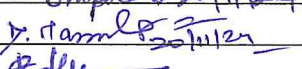
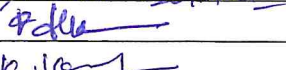



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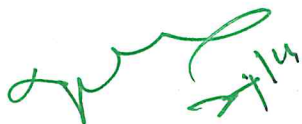
Time: 09:30 AM

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**

**27<sup>th</sup> 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	<b>Dr.K.V.Hemalatha</b>	<b>Chemistry:</b> 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
		<b>Dr.V.N.Vijayakumar</b>	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
		<b>Dr.J.Anbzhagan Vijay</b>	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

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

		<p>5. <b>M.E. PSE:</b> Mix &amp; Optimization for PSE was suggested; in "Linear Programming problem-'duality' topic may be removed and course name is to be modified.</p> <p>6. <b>M.Tech Tex:</b> Unit-2 title to be changed as 'Testing of Hypothesis'</p> <p>7. <b>M.Tech DS:</b> 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.</p> <p>8. <b>M.Tech BT:</b> 3rd &amp; 4th units may be interchanged</p> <p>9. <b>M.Tech FT:</b> Statistics &amp; optimization for FT was suggested; the topic 'duality' may be removed.</p>	Updated as per suggestions	Dr.K.Senthilvadivu BoS Chairman	To be Submitted for Academic Council approval	Nil
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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

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23/11/24

2. HoD/Maths

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23/11/24

3. HoD/Physics

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23/11/24

4. HoD/Chemistry

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23/11/2024

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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.

*[Signature]*  
23/11/24  
**Principal**