



# R.M.K. ENGINEERING COLLEGE

[An Autonomous Institution]

R.S.M Nagar, Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu- 601 206  
Affiliated to Anna University, Chennai / Approved by AICTE, New Delhi/ Accredited by NAAC with A+ Grade  
An ISO 21001:2018 Certified Institution / All the Eligible UG Programs are accredited by NBA, New Delhi.




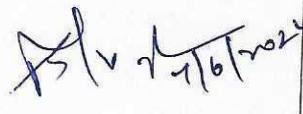

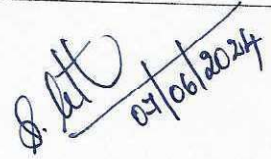

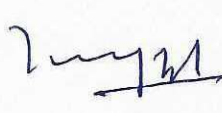


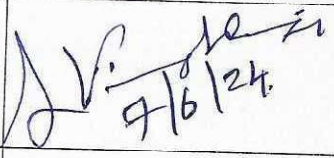
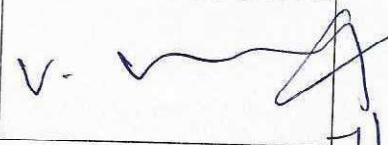
## BoS – CSE and Allied Branches (CSE, CSD, ADS, CSBS & IT)

Ref. No. RMKEC/BoS/MoM/CSE/2023-24/10

Date: 07.06.2024

### MINUTES OF BOARD OF STUDIES MEETING

Name of the Board	CSE and Allied Branches (CSE, CSD, ADS, CSBS&IT)	
Programmes Offered	B.E. - Computer Science and Engineering M.E. - Computer Science and Engineering B.E. - Computer Science and Design B.Tech. - Artificial Intelligence & Data Science B.Tech. – Computer Science and Business Systems B.Tech. – Information Technology	
Date, Time and Venue	07.06.2024 (Friday), 09:30 AM, Board Room, RJ Block, RMKEC	
Meeting No.	10	
Notification No. and Date	RMKEC/BOS/COE/2024/10 and 21.05.2024	
SPECIAL INVITEES		
Mr. R. M. Kishore, Vice Chairman, R.M.K. Group of Institutions Dr. M. S. Palanichamy, Advisor, R.M.K. Group of Institutions Dr. K. A. Mohamed Junaid, Principal, R.M.K. Engineering College Dr. S. Pavai Madheswari, Academic Coordinator, R.M.K. Engineering College		
BoS MEMBERS		
Position in Board of Studies	Details of the Member	Signature of the Member
Board of Studies Chairman	Dr. T. Sethukarasi Professor and Head, Department of Computer Science and Engineering, R.M.K. Engineering College.	

Position in Board of Studies	Details of the Member	Signature of the Member
Expert Nominated from Anna University	<b>Dr. M. Vijayalakshmi</b> Professor Department of Information Science and Technology CEG Campus Anna University, Chennai – 600025	
Subject Expert from Outside the Parent University	<b>Dr. B. Surendiran</b> Associate Professor, Department of CSE, National Institute of Technology, Pudhucherry.	
	<b>Dr. S. Geetha</b> Professor and Associate Dean School of Computing Science and Engineering, VIT University, Chennai Campus, Chennai – 600127	
Industry Representative	<b>Mr. Rajkumar Sivasubramanian</b> Associate Director, Learning and Campus, Virtusa Consulting Services Private Limited, Chennai – 600089	
	<b>Mr. Vasanth Rajagopalan</b> Director, Artificial Intelligence and Analytics, Cognizant	
	<b>Mr. A. Janagaraj</b> Global Head – Cybersecurity Practice Unit, LTIMindtree	
	<b>Mr. Saravanan Velmurugan</b> Senior Director, Custom and Cloud Applications, NTT DATA Services	
Postgraduate Meritorious Alumnus	<b>Mr. M. Srinivasan</b> Associate Vice President Customer Success, LTIMindtree	
	<b>Mr. Vignesh Balaji S</b> (Batch 2015-2019) Associate Technical Consultant, Salesforce, Bengaluru	
Expert from Outside the College	<b>Dr. V. Masilamani</b> Professor and Dean-Student Affairs, Department of CSE, IIITDM, Kancheepuram	



**Dr. M. Sheerin Banu, Prof. & Head, IT**  
**Dr. Sandra Johnson, Prof. & Head, ADS**  
**Dr. K. Chidambara Thanu, Prof. & Head, CSBS**  
**Dr. S. Thanga Ramya, Prof. & Head, CSD**

Faculty Members of CSE and Allied Branches

At the outset, The Principal welcomed the BoS members to our institution and briefed about regulation 2022 and the new initiatives taken in R.M.K. Engineering College for the benefit of the students. The Chairman welcomed all the members to the 10<sup>th</sup> meeting of the Board of Studies (BoS) of CSE and Allied Branches. All the members were present for the meeting. The Chairman, Board of Studies of CSE and Allied Branches introduced all the members present and gave an introduction about the Institution and Department. The Chairman briefed the agenda to be discussed.

The minutes of the meeting are as follows:

Item No. RMKEC/BoS/CSE/2023-24/10/01	To consider and approve the curriculum and syllabus of R2022 from Semester V to Semester VIII and Syllabus for Honors Degree Courses of R2022 in B.E. - CSE for the students admitted during 2022-23.
<b>B.E. CSE</b>	
<b>SEMESTER VI</b>	
<b>Discussion</b>	<b>Resolution</b>
<i>Suggested to</i>	
✓ Reduce credits of 22CS602 Object Oriented Software Engineering from 4 to 3.	✓ Credits changed to 3.
Item No. RMKEC/BoS/CSE/2023-24/10/02	To approve and ratify in Curriculum of R2022 for semester III and IV in B.E. - CSE for the students admitted during 2023-24
<b>B.E. CSE</b>	
<b>Semester I &amp; II</b>	
<b>Discussion</b>	<b>Resolution</b>
✓ 22GE101 – Heritage of Tamils moved from Semester II to Semester I	
✓ 22GE201 – Tamils and Technology moved from Semester III to Semester II	
<b>Semester III</b>	
<b>Discussion</b>	<b>Resolution</b>
As per the suggestions from Knowledge Partners	
✓ 22CS301 Advanced Java Programming (L.I.) syllabus is changed with subject code 22CS305 as the syllabus is modified with the industry standard. Collections, Streams and Regular	



- Expressions are more focused to enhance the programming skill in JAVA.
- ✓ **22CS303 Design and Analysis of Algorithms (L.I.)** subject code is changed as **22CS306** by increasing 1 credit to give more exposure towards the practical component of the subject.

#### Semester IV

Discussion	Resolution
<ul style="list-style-type: none"> <li>✓ <b>22CS512 Miniproject and Design Thinking Laboratory</b> is removed since it is incorporated in <b>22ME411-Product Development Lab</b> and having the subject <b>22CB005-Design Thinking</b> as open Elective.</li> <li>✓ <b>22CS402 Web Development Frameworks</b> is changed to course code <b>22IT403</b> to give more emphasis on React.</li> </ul>	

Item No.  
RMKEC/BoS/CSE/2023-24/10/03

To consider and approve the Curriculum and Syllabus of R2024 for semester I to IV in P.G - M.E.CSE for the students admitted during 2024-25 onwards.

#### M.E. CSE

#### SEMESTER I

Discussion	Resolution
<p><i>Suggested to</i></p> <ul style="list-style-type: none"> <li>✓ Replace <b>24CS125 - Web Application Development using Python with Full Stack Development</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ <b>Web Application Development using Python</b> is replaced with <b>25CS125-Full Stack Development</b> to make students as full stack developer and also industry ready. Instead of focusing on Python alone, a complete full stack development environment is provided in the syllabus.</li> </ul>
<p><i>Suggested to</i></p> <ul style="list-style-type: none"> <li>✓ Include laboratory for <b>24CS124 – Machine Learning Techniques and Practices</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ Laboratory component is added as case study.</li> </ul>

#### M.E. CSE

#### SEMESTER II

Discussion	Resolution
<p><i>Suggested to</i></p> <ul style="list-style-type: none"> <li>✓ Include Advanced Databases/Advanced Networks/Advanced Operating Systems instead of <b>24CS222 - Data Exploration and Visualization</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ Included <b>24CS222 - Advanced Database Technology</b> and <b>24CS231 - Advanced Database Technology Laboratory</b> instead of Data Exploration and Visualization and the associated Lab course.</li> <li>✓ Data Exploration and Visualization is added in to Electives.</li> </ul>

#### B.E. CSD

Item No.  
RMKEC/BoS/CSE/2023-24/10/04

To approve the course code change of “**20IT940 – Web Development Framework**” of R2020 as **20CD915** in B.E. CSD for the



	students admitted during 2021-22.
<b>Discussion</b>	<b>Resolution</b>
<i>Suggested to -</i> ✓ Change the course code “20IT940 – Web Development Framework” to 20CD915.	✓ The course code “20IT940 – Web Development Framework” in R2020 is changed as “20CD915”.
Item No. RMKEC/BoS/CSE/2023-24/10/05	To approve the Curriculum and Syllabus of R2022 V to VIII semesters in B.E. CSD and ratify Professional Elective Vertical for the students admitted during 2022-23.
<b>Semester I</b>	
<b>Discussion</b>	<b>Resolution</b>
<i>Suggested to -</i> ✓ Shift “Heritage of Tamils” subject from Semester II to Semester I.	✓ The subject “Heritage of Tamils” is shifted from Semester II to Semester I.
<b>Semester II</b>	
<b>Discussion</b>	<b>Resolution</b>
<i>Suggested to -</i> ✓ Shift “Tamils and Technologies” subject from Semester III to Semester II.	✓ The subject “Tamils and Technologies” is shifted from Semester III to Semester II.
<b>Semester IV</b>	
<b>Discussion</b>	<b>Resolution</b>
<i>Suggested to -</i> ✓ Change the course code of 22CS303- Design and Analysis of Algorithm as “22CS306- Design and Analysis of Algorithm” ✓ Remove the course “22CS412-Mini Project and Design Thinking Lab” from Semester IV.	✓ The course code of “22CS303 - Design and Analysis of Algorithm” is changed as 22CS306, ✓ The course “22CS412-Mini Project and Design Thinking Lab” is removed from Semester IV.
<b>Semester VII</b>	
<b>Discussion</b>	<b>Resolution</b>
<i>Suggested to -</i> Change the course “22CS601-Compiler Design” in Semester VII of R2022 as “22AI602-Automation Theory and Compiler Design”	✓ The course “22CS601-Compiler Design” in Semester VII of R2022 is replaced with “22AI602-Automation Theory and Compiler Design”.
<b>Professional Elective</b>	
<b>Discussion</b>	<b>Resolution</b>



<p><b>Suggested to –</b></p> <ul style="list-style-type: none"> <li>✓ Include Advanced VR based courses in “<b>Virtual and Augmented Reality</b>” Vertical.</li> <li>✓ Shift “<b>Computer Vision</b>” subject to “<b>Artificial Intelligence</b>” Vertical.</li> <li>✓ Change of course code “<b>22AI401 – Machine Learning</b>” to <b>22CD926</b>.</li> <li>✓ Remove the professional elective vertical “<b>Media Processing</b>”.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Included “<b>Mobile VR and AI in Moduley</b>” course in Virtual and Augmented Reality Vertical.</li> <li>✓ “<b>Computer Vision</b>” Subject is shifted to “<b>Artificial Intelligence</b>” Vertical.</li> <li>✓ The course code “<b>22AI401 – Machine Learning</b>” in R2022 is changed as <b>22CD926</b>.</li> <li>✓ The professional elective vertical “<b>Media Processing</b>” is removed.</li> </ul>
<b>B.TECH. ADS</b>	
<p style="text-align: center;">Item No. <b>RMKEC/BoS/CSE/2023-24/10/06</b></p>	<p><b>To consider and approve the ratifications in the Professional Elective of R2020 in B.Tech. ADS curriculum for the students admitted during 2021-22.</b></p>
<b>Discussion</b>	<b>Resolution</b>
<p><b>Suggested to –</b></p> <ul style="list-style-type: none"> <li>✓ Change the following courses from Professional Elective Pool I/II/III to Professional Elective IV/V/VI pool. <ul style="list-style-type: none"> <li>○ 20CS905 Computer Vision</li> <li>○ 20AI923 Distributed and Cloud Computing</li> <li>○ 20CS918 Google Cloud: Architecting with Google Compute Engine</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>✓ The courses 20CS905/Computer Vision, 20AI923/Distributed and Cloud Computing, 20CS918/Google Cloud: Architecting with Google Compute Engine are moved from Professional Elective Pool I/II/III to IV/V/ VI.</li> </ul>
<p style="text-align: center;">Item No. <b>RMKEC/BoS/CSE/2023-24/10/07</b></p>	<p><b>To approve the Curriculum and Syllabus of R2022 V to VIII semesters in B.Tech. ADS and the Professional Elective Verticals for the students admitted during 2022-23.</b></p>
<b>Semester VII</b>	
<b>Discussion</b>	<b>Resolution</b>
<p><b>Suggested to –</b></p> <ul style="list-style-type: none"> <li>✓ Change the course “<b>Big Data Analytics</b>” to “<b>Frameworks for Data Analytics</b>”.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Course 22AI701 Big Data Analytics is changed to <b>22AI701 Frameworks for Data Analytics</b>.</li> </ul>
<b>Honours Vertical</b>	
<b>Discussion</b>	<b>Resolution</b>
<p><b>Suggested to –</b></p> <ul style="list-style-type: none"> <li>✓ Include additional courses as options in Honours vertical – Computational Intelligence and Intelligent Health Care.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Included the following two courses in the Honours vertical – Computational Intelligence: <ul style="list-style-type: none"> <li>○ Graph Theory and Neural Networks</li> </ul> </li> </ul>



	<ul style="list-style-type: none"> <li>○ Recent Trends in AI</li> </ul> <ul style="list-style-type: none"> <li>✓ Included the following two courses in the Honours vertical – Intelligent Health Care: <ul style="list-style-type: none"> <li>○ Bio-Informatics</li> <li>○ Smart and Interactive Healthcare Technologies</li> </ul> </li> <li>✓ Explainable AI, Responsible AI and Ethical AI are covered in the course “Recent Trends in AI”.</li> </ul>
<p><b>Suggested to -</b></p> <ul style="list-style-type: none"> <li>✓ Change the Health Care Analytics course to Medical Image Analytics course in the Honours vertical – Intelligent Health Care.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Changed the Health Care Analytics course to Medical Image Analytics course in the Honours vertical – Intelligent Health Care.</li> </ul>
<p align="center"><b>Item No.</b> <b>RMKEC/BoS/CSE/2023-24/10/08</b></p>	<p><b>To consider and approve the ratifications in Semester III and Semester IV of R2022 in B.Tech. (ADS) for the students admitted during 2023-24.</b></p>
<b>Semester I</b>	
<b>Discussion</b>	<b>Resolution</b>
<p><b>Suggested to -</b></p> <ul style="list-style-type: none"> <li>✓ Shift “<b>Heritage of Tamils</b>” subject from Semester II to Semester I.</li> </ul>	<ul style="list-style-type: none"> <li>✓ The subject “<b>Heritage of Tamils</b>” is shifted from Semester II to Semester I.</li> </ul>
<b>Semester II</b>	
<b>Discussion</b>	<b>Resolution</b>
<p><b>Suggested to -</b></p> <ul style="list-style-type: none"> <li>✓ Shift “<b>Tamils and Technologies</b>” subject from Semester III to Semester II.</li> </ul>	<ul style="list-style-type: none"> <li>✓ The subject “<b>Tamils and Technologies</b>” is shifted from Semester III to Semester II.</li> </ul>
<b>Semester III</b>	
<b>Discussion</b>	<b>Resolution</b>
<p><b>Suggested to -</b></p> <ul style="list-style-type: none"> <li>✓ Change the course code of 22CS303- Design and Analysis of Algorithm as “<b>22CS306- Design and Analysis of Algorithm</b>”</li> <li>✓ Include <b>22CS301 Advanced Java Programming.</b></li> <li>✓ Change the course 22AI312 Internship and Seminar to <b>22AI313 Internship.</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ The course code of “<b>22CS303 - Design and Analysis of Algorithm</b>” is changed as <b>22CS306 Design and Analysis of Algorithm.</b></li> <li>✓ Included <b>22CS301 Advanced Java Programming.</b></li> <li>✓ Change the course 22AI312 Internship and Seminar to <b>22AI313 Internship.</b></li> </ul>
<b>Semester IV</b>	
<b>Discussion</b>	<b>Resolution</b>



<p><b>Suggested to -</b></p> <ul style="list-style-type: none"> <li>✓ Remove the course “22CS412-Mini Project and Design Thinking Lab” from Semester IV.</li> <li>✓ Move the course 22CS302 Computer Organization and Architecture from Semester III to Semester IV.</li> <li>✓ Change the 22CS402 Web Development Frameworks course to 22IT403 Web Development Frameworks course.</li> <li>✓ Remove the course “22CS401 Distributed and Cloud Computing” from Semester IV.</li> </ul>	<ul style="list-style-type: none"> <li>✓ The course “22CS412-Mini Project and Design Thinking Lab” is removed from Semester IV.</li> <li>✓ Moved the course 22CS302 Computer Organization and Architecture from Semester III to Semester IV.</li> <li>✓ Changed the 22CS402 Web Development Frameworks course to 22IT403 Web Development Frameworks course.</li> <li>✓ The course “22CS401 Distributed and Cloud Computing” is removed from Semester IV and is included as “22CS907 Cloud Foundations” in the Professional Elective Vertical – AI and Cloud.</li> </ul>
<p>Item No. RMKEC/BoS/CSE/2023-24/10/09</p>	<p>To consider and approve the curriculum and syllabi for the Minor Degree in “Artificial Intelligence” of R2022 offered by Artificial Intelligence and Data Science to other departments.</p>
<p align="center"><b>Minor Degree in Artificial Intelligence</b></p>	
<p align="center"><b>Discussion</b></p>	<p align="center"><b>Resolution</b></p>
<p><b>Suggested to -</b></p> <ul style="list-style-type: none"> <li>✓ Include “Introduction to Data Science”, “Introduction to Artificial Intelligence”, “Machine Learning Algorithms” and “Foundations of Deep Learning” courses along with a capstone project.</li> </ul>	<ul style="list-style-type: none"> <li>✓ Included “Introduction to Data Science”, “Introduction to Artificial Intelligence”, “Machine Learning Algorithms” and “Foundations of Deep Learning” courses along with a capstone project.</li> </ul>
<p align="center"><b>B.Tech. CSBS</b></p>	
<p>Item No. RMKEC/BoS/CSE/2023-24/10/10</p>	<p>To ratify and approve the Curriculum of R2020 for B.Tech. - CSBS for the students admitted from the year 2021-22 onwards.</p>
<p align="center"><b>Discussion</b></p>	<p align="center"><b>Resolution</b></p>
<p><b>Suggested to -</b></p> <ul style="list-style-type: none"> <li>✓ Include 20CB921-Organizational Behaviour in the Professional Elective V list</li> </ul>	<ul style="list-style-type: none"> <li>✓ Included</li> </ul>
<p>Item No. RMKEC/BoS/CSE/2023-24/10/11</p>	<p>To consider and ratify the Curriculum of R2022 for B.Tech. - CSBS for the students admitted from the year 2022-23 onwards.</p>
<p align="center"><b>Semester V</b></p>	
<p align="center"><b>Discussion</b></p>	<p align="center"><b>Resolution</b></p>



<b>Suggested to -</b>	
✓ 22CB504 Design Thinking is changed from Laboratory course with theory course category to theory course	✓ It is accepted to change the category of the course 22CB504 – Design Thinking
<b>Professional Elective</b>	
<b>Discussion</b>	<b>Resolution</b>
<b>Suggested to -</b>	
✓ Include Introduction to Fintech course in the Professional Elective list	✓ Included
<b>Item No.</b> <b>RMKEC/BoS/CSE/2023-24/10/12</b>	<b>To consider and approve the Syllabus from semester V to VIII of R2022 for B.Tech. - CSBS for the students admitted from the year 2022-23 onwards.</b>
<b>Semester V - VIII</b>	
<b>Discussion</b>	<b>Resolution</b>
✓ Presented the syllabus to the members	✓ Approved

After the discussions and corrections, it was unanimously decided to:

- Approve the curriculum and syllabus of R2022 from Semester V to Semester VIII and Syllabus for Honors Degree Courses of R2022 in B.E. - CSE for the students admitted during 2022-23.
- Approve and ratify in Curriculum of R2022 for semester III and IV in B.E. - CSE for the students admitted during 2023-24.
- Approve the Curriculum and Syllabus of R2024 for semester I to IV in P.G - M.E.CSE for the students admitted during 2024-25 onwards.
- Approve the course code change of "20IT940 – Web Development Framework" as "20CD915 – Web Development Framework" of R2020 in B.E. CSD for the students admitted during 2021-22.
- Approve the Curriculum and Syllabus of R2022 V to VIII semesters in B.E. CSD and ratify Professional Elective Vertical for the students admitted during 2022-23.
- Approve the ratifications in Professional Elective of R2020 in B.Tech. ADS curriculum for the students admitted during 2021-22.
- Approve the curriculum and syllabus of R2022 from Semester V to Semester VIII in B.Tech. - ADS for the students admitted during 2022-23.
- Approve the ratifications in Semester III and Semester IV of R2022 in B.Tech. - ADS for the students admitted during 2023-24.



- Approve the curriculum and syllabus for the Minor Degree in Artificial Intelligence of R2022 offered by Artificial Intelligence and Data Science to other departments.
- Approve the Curriculum of R2020 for B.Tech. - CSBS for the students admitted from the year 2021-22 onwards.
- Ratify the Curriculum of R2022 for B.Tech. - CSBS for the students admitted from the year 2022-23 onwards.
- Approve the Syllabus from semester V to VIII of R2022 for B.Tech. - CSBS for the students admitted from the year 2022-23 onwards.
- Approve the R2022 Syllabi for semesters V to VIII Courses offered for the B.Tech Information Technology for the students admitted from the academic year 2022 – 23 onwards.
- Ratify R2022 curriculum for B.Tech Information Technology for the students admitted from the academic year 2022 – 23 onwards.
- Consider and ratify the syllabus for 22IT401 - Artificial Intelligence and Machine Learning.

The copy of Curriculum and Syllabi is attached for your reference.

The Chairman of Board of Studies thanked all the members for their valuable suggestions and coordination.



*[Handwritten Signature]*

**BoS Chairman**

<Signature with Seal>

Dr. T. CETHUKARASI, M.E., M.S., Ph.D.,  
PROFESSOR & HEAD  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
R.M.K. ENGINEERING COLLEGE  
R.S.M. NAGAR, KAVARAIPETTAI-601 206.

*[Handwritten Signature]*

**Principal**

<Signature with Seal>

Dr. K.A. MOHAMED JUNAID, M.E., Ph.D.,  
PRINCIPAL  
R.M.K. ENGINEERING COLLEGE  
R.S.M. NAGAR, KAVARAIPETTAI-601 206  
GUMMIDIPOONDI TALUK, TIRUVALLUR DIST.



Encl:

- 1) Curriculum and Syllabus of R2022 for the students admitted during 2022-23 and 2023-24.
- 2) Curriculum and Syllabus of R2024 for M.E. CSE for the admitted during 2024-25 onwards.

Original to COE

Copy to:

1. All BoS Members (Soft Copy)
2. Department BoS File