



# Rajarajeswari College of Engineering



(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi,  
Approved by AICTE, UGC & GoK, Accredited by ISO 9001-2015 Certified Institution)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

## Department of Robotics and Automation



Ref: RRCE/Dept-R&A/BOS-MoM/2024-25 /001

Date: 03/09/2024

### MINUTES OF THE FIRST BOARD OF STUDIES MEETING FOR THE UG PROGRAMME IN ROBOTICS AND AUTOMATION HELD ON 3<sup>RD</sup> SEPTEMBER 2024 FROM 10:30 A.M TO 1.00 P.M IN THE BOARD ROOM OF RAJARAJESWARI COLLEGE OF ENGINEERING.

The following members were present at the meeting.

Sl. No.	Name of the Members	Designation	Role in the BoS
1	Dr. Satheesha V	Associate Professor, Dept. of Robotics & Automation, RajaRajeswari College of Engineering, Bengaluru.	Chairman
2	Dr. K. V. Suresh	Professor, Dept. of Electronics & Communication Engineering, Siddaganga Institute of Technology, Tumakuru.	VTU Nominee
3	Dr. Adarsha H	Professor, Dept. of Mechanical Engineering, Jain University, Bengaluru.	Academic Expert
4	Dr. Pramodkumar. S.	Associate Professor School of Mechanical Engineering, Reva University, Bengaluru.	Academic Expert
5	Mr. Santhosh M. S	Manager, WIPRO 3D, Peenya, Bengaluru.	Industry Expert
6	Mr. K. Chetan	IT Business Consultant, Assistant Manager, BSH, Whitefield, Bengaluru.	Alumni
7	Mr. Venkat Reddy P. S	SAP Labs Whitefield Road, KIADB Export Promotion Industrial Area, Brooke field, Bengaluru.	Industry Expert
8	Dr. M. Karthikeyan	Professor and Head, Dept. of R&A, RRCE	Member
9	Dr. C. Ramesh	Professor, Dept. of R&A	Member
10	Dr. Vishwanath K. C	Associate Professor, Dept. of R&A, RRCE	Member
11	Dr.N.Sreenivasalu Reddy	Associate Professor, Dept. of R&A, RRCE	Member
12	Dr. Thanuj Kumar M	Associate Professor, Dept. of R&A, RRCE	Member
13	Dr. Radhakrishna R K	Associate Professor, Dept. of R&A, RRCE	Member
14	Mr. Dhananjay B S	Assistant Professor, Dept. of R&A, RRCE	Member
15	Mrs. G. Manasa	Assistant Professor, Dept. of R&A, RRCE	Member

Campus: #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

Phone: +91-80-28437124 / 28437375

Email Id: hodra@rrce.org

Website: <https://www.rrce.org>



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The meeting was convened by Dr. M. Karthikeyan, Head of the Department of Robotics & Automation, both in-person and virtually via Google Meet.

Dr. M. Karthikeyan, Head of the Department of Robotics & Automation, welcomed all members to the 1st Board of Studies (BoS) meeting and introduced each member of the board. He then invited Dr. Satheesha V., BoS Chairman, to present the scheme and syllabus for the first year (first and second semesters) and the scheme for the second year (third and fourth semesters).

Dr. Satheesha V., BoS Chairman, presented the members with the following agenda for the meeting:

**AGENDA No.1:** Discussion on the Vision and Mission statements of the Department of Robotics and Automation.

**AGENDA No.2:** Review of the framework and scheme proposed for UG first-year students in the Department of Robotics and Automation for the academic year 2024-25.

**AGENDA No.3:** Discussion on the subjects offered to UG first-year students in the Department of Robotics and Automation for the academic year 2024-25.

**AGENDA No.4:** Review of the framework and proposed scheme for UG second-year (third and fourth semester) students in the Department of Robotics and Automation for the academic year 2025-26.

**The agenda items were then taken up for discussion and the following resolutions were passed.**

**AGENDA No.1:** Discussion on the Vision and Mission statements of the Department of Robotics and Automation.

- Dr. K. V. Suresh suggested that the vision statement should be more generalized.

**AGENDA No.2:** Review of the framework and scheme proposed for UG first-year students in the Department of Robotics and Automation for the academic year 2024-25.

- Dr. K. V. Suresh suggested aligning subject names with those in the VTU first-year syllabus. He also recommended framing the syllabus in accordance with the National Credit Framework and AICTE model curriculum.

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- Dr. K. V. Suresh noted that, as the institution falls under the Tier-1 category in NBA (new format) this should be incorporated from the academic year 2024-25 to establish a robust curriculum structure.
- Dr. K. V. Suresh advised that, per the new VTU scheme and syllabus, the term "duration of hours" should be replaced by "total number of hours".
- Dr. K. V. Suresh emphasized that each subject must include Lecture-Tutorial-Practical-Self Learning (L-T-P-S) components.
- Dr. K. V. Suresh recommended limiting deviations from the Visvesvaraya Technological University syllabus to 20% when framing first-year subjects.
- The members suggested incorporating activity-based and experiential learning into the entire first-year curriculum.

**AGENDA No.3:** Discussion on subjects offered for UG first year students from Department of Robotics and Automation for the academic year 2024-25.

- Dr. K. V. Suresh recommended that for the CAED subject, a manual of drawings should be prepared for students to practice during practical sessions.
- Dr. K. V. Suresh proposed that the Internal Assessment (IA) tests for the CAED subject be conducted as practical assessments instead of theory exams.
- Mr. K. Chetan suggested rearranging the modules for the first-year subjects "Elements of Mechanical Engineering" (EME) and "Introduction to Mechanical Engineering" (IME).
- Mr. K. Chetan recommended that Robotics and Automation students take the CAED subject during their second semester. This would provide continuity for studying "Introduction to Modeling and Design" in the third semester.

**AGENDA No.4:** Discussion on frame work, scheme proposed for UG Second year (third and fourth semester) students of Department of Robotics and Automation for the academic year 2025-26.

- Dr. Pramodkumar S. K. suggested including linear algebra in the third semester Mathematics-III course.

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- Dr. Pramodkumar S. K. suggested including subjects such as Industry 4.0 in the fourth semester, AI & ML in the fifth semester, and IoT in the sixth semester, as these additions would enhance the skill set of the students.
- Dr. Adarsha H. suggested formulating the syllabus for the subject "Fabrication Methods of Robotics Components" to include 2 modules on materials and 3 modules on the fabrication methods for robotic components.
- Dr. Adarsha H. suggested rearranging the "Mechanics of Solids and Fluids" subject to the fourth semester, instead of the third semester.
- Dr. K. V. Suresh suggested include the subject "Sensors and Actuators" a core subject in the third semester.
- Dr. K. V. Suresh suggested that subjects designated as Professional Core Courses (PCC) should have corresponding Professional Core Course Laboratory (PCCL) subjects in the same semester.
- Dr. Adarsha H. suggested to making the subject "Material Science" a core subject in the third semester.
- Dr. K. V. Suresh suggested renaming the subject "Microcontroller for Robotics" to "Microcontroller" and proposing that it be taught in the fourth semester or later.
- Dr. Adarsha H suggested renaming the subject "Introduction to Modeling and Design for Manufacturing" to "Modeling and Design for Manufacturing" and proposing that it be taught in the third semester.
- Members suggested to include subject "Process Automation" in third semester.
- Members suggested to include "Additive Manufacturing" as a PCC subject and "3D Printing Lab" as a PCCL subject in the fourth semester.
- Members suggested to include subject "Fundamentals of Robotics & Applications" in third semester.

The meeting concluded with a vote of thanks delivered by Dr. Ramesh C., Professor, Department of Robotics & Automation, followed by the members signing the necessary documents.

03/09/24

Dr. Satheesha V.  
CHAIRMAN  
BOS Chairman  
Dept. R&A  
BOARD OF STUDIES  
Dept. of Robotics and Automation  
Rajarajeswari College of Engineering  
Bengaluru - 560074

16/9/24

Dr. Rangaiah L.  
Dean Academics  
DEAN ACADEMICS  
Rajarajeswari College of Engineering  
Bengaluru - 560074

21/9/24

Dr. R. Balakrishna  
Principal  
RAJARAJESWARI  
COLLEGE OF ENGINEERING



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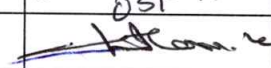

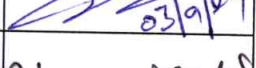
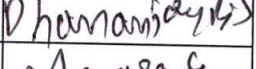


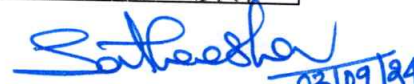
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### 1<sup>st</sup> BoS meeting Attendance Sheet

S.No	Name of the BOS Members	Category	Sign with date
1	Dr. Satheesha V	BOS Chairman	 03/09/24
2	Dr.K.V.Suresh	Expert nominated by the VTU,Belagavi	 3/9/24
3	Dr.Adarsha H	Subject expert from outside the Parent University	 03.09.2024
4	Dr.Pramodkumar.S.	Subject expert from outside the Parent University	 3/9/24
5	Mr. Santhosh. M. S	Representative from industry sector.	 03/09/24
6	Mr.K.Chetan	College Alumni	
7	Mr.Venkat Reddy P S	Experts from outside the Autonomous College	ONLINE
8	Dr. M. Karthikeyan	Professor Dept. of R&A-Member	 3/9/24
9	Dr. C. Ramesh	Professor Dept. of R&A-Member	
10	Dr. K. C. Vishwanath	Associate Professor Dept. of R&A -Member	
11	Dr. N. Sreenivasalu Reddy	Associate Professor Dept. of R&A -Member	
12	Dr. Thanuj Kumar M	Associate Professor Dept. of R&A -Member	 03/09/24
13	Dr. Radhakrishna R K	Associate Professor Dept. of R&A-Member	 03/9/24
14	Mr. Dhananjay B S	Assistant Professor Dept. of R&A -Member	
15	Mrs. G. Manasa	Assistant Professor Dept. of R&A -Member	 Manasa G 3/9/24

  
CHAIRMAN

BOARD OF STUDIES

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