



# RajaRajeswari College of Engineering

#14, Ramohalli Cross, Kumbalagodu, Mysuru road, Bengaluru - 560 074  
(Approved by AICTE, New Delhi. Affiliated to the Visvesvaraya Technological University, Belagavi)

## Department of Robotics and Automation

### NEWSLETTER

Volume :3 Issue:1

CYBORGS 2023-2024



#### Chief Patron



**Dr.A.C.Shanmugam,**  
B.A.LL.B, FIMSA, FRCPS (Glasgow,UK)  
Former MLA., MP.,  
Chairman,  
RajaRajeswari Group of Institutions.



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B.Tech (Hons), LMISTE,MIET.,  
(UK),LMCSI., MIEEE, MCSI, MISTE,  
CEngg(India),  
Vice-Chairman,  
RajaRajeswari Group of Institutions.

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RRCE

**Dr.S.Usha**  
Dean R&I, RRCE

**Dr.Thangadurai. N**  
Dean IPS, RRCE

**Dr.J.Amutharaj**  
Vice-Principal, RRCE

We express our utmost gratitude to the Management, Rector, Principal, Dean R&D, and Vice Principal for their unwavering encouragement, inspiration, and support throughout the compiling and release of our latest newsletter - "**CYBORGS 2023-2024**". Their constant support has been essential in bringing this publication to fruition.

#### Department at a Glance

The Department of Robotics and Automation was started in the academic year 2021-2022 with an intake of 60 students.

The department boasts a team of highly qualified faculty members, possessing extensive experience in diverse fields of engineering.

The Robotics and Automation program aims to plan, Design, Construct, and Operate and effective & independent usage of robotic devices. It is learned further the utilization of the computer systems required for its control, a sensor element, feedback, and information processing of Robotics and Automation devices.

The department is equipped with state-of-the-art laboratories featuring advanced software, facilitating accurate and efficient results. Additionally, the department conducts numerous seminars, workshops, and Industry-Institute Interactions to enhance the students' knowledge.

#### Course Offered:

#### UG Programme:

- Bachelor of Engineering in Robotics and Automation -4 Years.



**Dr.M.Karthikeyan,**M.E., Ph.D.,  
HOD-R&A



**FANUC Robo Guide  
Simulation**

#### FANUC 6 Axis Industrial Robot



**Department of Robotics and Automation Association****Department of Robotics and Automation Association members for the AY 2023-2024**

The following students were nominated as office bearers of the Department of Robotics and Automation Association for the Academic Year 2023-24.

Sl No	USN	Name of the Students	Designation
1	1RR21RA017	NITHASHREE L	President
2	1RR21RA011	LOHITH M R	Secretary
3	1RR21RA003	BHUMIKA H S	Treasurer
4	1RR21RA018	NITHYA B	Executive member
5	1RR22RA028	TANZEEM	Executive member
6	1RR22RA010	JAFFER A	Executive member
7	1RR23RA020	KRISHNA MURARI	Executive member
8	1RR23RA041	Y GANASHREE	Executive member

**Staff Incharge: Dr.Radhakrishna R K**

**Fanuc ER-4iA 6 Axis Robot**



**CNC Lathe and CNC Milling Machine**



**Department of Robotics and Automation**

**Department of Robotics and Automation**

**VISION**

To develop technically skilled Robotics and Automation engineers with the systems & multidisciplinary approach in-line with the dynamic technologies for the competitive solution to the society.

**MISSION**

- To provide a technical education through an effective teaching-learning process to meet the industry requirement.
- To teach the process of designing, creating, and using robots to perform a certain task in problem-solving skills and up-gradation of knowledge through a project-based approach in collaboration with industries.



FANUC ER 4iA Robot in the Robotics Lab



**4<sup>th</sup> semester of Batch 2021-22 VTU exams class toppers are awarded with Merit certificate**



**Ms.Bhumika, 1RR21RA003 secured 89.7 %( 1<sup>st</sup>Rank) in the 4<sup>th</sup> semester VTU exams (Academic Year 2022-23) and she was awarded a merit certificate by Mr.Rajashekara H V, Advisor and Head, IMTMA Design Institute (BIEC), Bengaluru**



**Ms.Nithya B, 1RR21RA018 secured 86.7 %( 2<sup>nd</sup> Rank) in the 4<sup>th</sup> semester VTU exams (Academic Year 2022-23) and she was awarded a merit certificate by Mr.Rajashekara H V, , Advisor and Head, IMTMA Design Institute (BIEC), Bengaluru**

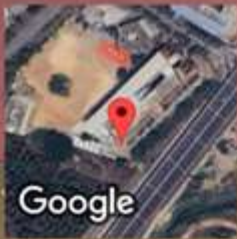
**4<sup>th</sup> semester of Batch 2021-22 VTU exams class toppers are awarded with Merit certificate**

Ms.Jeevika D.K, 1RR21RA009 secured 86.5% (3<sup>rd</sup> Rank) in the 4<sup>th</sup>semester VTU exams (Academic Year 2022-23) and she was awarded a merit certificate by Mr.Rajashekara H V, , Advisor and Head, IMTMA Design Institute (BIEC), Bengaluru



Ms.Nisanka Mansi Chandran, 1RR21RA016 secured 83.3% (4<sup>th</sup>Rank) in the 4<sup>th</sup>semester VTU exams (Academic Year 2022-23) and she was awarded a merit certificate by Mr.Rajashekara H V, , Advisor and Head, IMTMA Design Institute (BIEC), Bengaluru






4<sup>th</sup> semester of Batch 2021-22 VTU exams class toppers are awarded with Merit certificate



Bengaluru, Karnataka, India  
 DEPARTMENT OF R &A,RRCE  
 Lat 12.886242°  
 Long 77.449773°  
 19/12/23 12:17 PM GMT +05:30

Ms.Viha Trupthi.S.Pandit, 1RR21RA022 secured 83.2 % (5<sup>th</sup>Rank) in the 4<sup>th</sup>semester VTU exams (Academic Year 2022-23) and she was awarded a merit certificate by Mr.Rajashekara H V , , Advisor and Head, IMTMA Design Institute (BIEC), Bengaluru

**CLASS TOPPER**  
**IN VTU 4TH SEMESTER EXAMS HELD DURING**  
**JUNE / JULY 2023**

 Ms.Bhumika H S 1RR21RA003 89.7 % 1st Rank	 Ms.Nithya B 1RR21RA018 86.7 % 2nd Rank	 Ms.Jeevika D K 1RR21RA009 86.5 % 3rd Rank
 Ms. Nisanka Mansi Chandran 1RR21RA016 83.3 % 4th Rank	 Ms.Viha Trupthi.S.Pandit 1RR21RA022 83.2% 5th Rank	

**Congratulations**  
**All Secured First Class with Distinction**

Dr MK

2<sup>nd</sup> semester of Batch 2022-23 VTU exams class toppers are awarded with Merit certificate



**Mr. AKARSH KASHYAP, 1RR22RA002 secured 81 % (1<sup>st</sup> Rank) in the second semester VTU exams (Academic Year 2022-23) and he was awarded a merit certificate by the Principal.**






**Mr. ROHITH V GOWDA, 1RR22RA019 secured 80.1 % (2<sup>nd</sup> Rank) in the second semester VTU exams (Academic Year 2022-23) and he was awarded a merit certificate by the Principal.**

2<sup>nd</sup> semester of Batch 2022-23 VTU exams class toppers are awarded with Merit certificate



Mr. PREM KUMAR G, 1RR22RA017 secured 79.9 % (3<sup>rd</sup> Rank) in the second semester VTU exams (Academic Year 2022-23) and he was awarded a merit certificate by the Principal.

**CLASS TOPPERS**  
**IN VTU 2ND SEMESTER EXAMS HELD DURING JUNE / JULY 2023**

		
<b>Mr. AKARSH KASHYAP S</b> 1RR22RA002 81 % 1st Rank	<b>Mr. ROHITH V GOWDA</b> 1RR22RA019 80.1% 2nd Rank	<b>Mr. PREM KUMAR G</b> 1RR22RA017 79.9 % 3rd Rank

***Congratulations***

5 days workshop on

**Robot Programming & Simulation using Robo guide software and hands on training in Fanuc ER4iA**



Mr Muthukrishnan G  
Managing Director  
Universal Tech Automation  
Coimbatore



Mr Surya  
Senior Application Engineering  
Universal Tech Automation  
Coimbatore



Mr Mrutyunjay  
Sr. Engineer- Application.  
FANUC INDIA  
Bengaluru



**Dr.M.Karthikeyan, HOD RA addressing during the Inauguration of Five days workshop on Robot Programming & Simulation using Robo guide software and hands on training in Fanuc ER4iA**



**Group Photo of the students with the Principal, Trainers, and HOD's and Staff members**

**Type of Event: Three Days Staff Development Program On  
“Introduction To Python Programming & ITS Applications”**



**Dr.M.Karthikeyan, HOD RA gave the feedback about the programme**



**Dr.M.Karthikeyan, HOD RA received the participation certificate from the  
Dr. K. V. Mahendra Prashanth Principal, SJBIT, Bengaluru**

Faulty Knowledge Enhancement Activity

DIDAC India 2023, the 13<sup>th</sup> edition of Exhibition and Conference for Education and Skilling Resources organized by The India Didactics Association (IDA)



**Dr.M.Karthikeyan, HOD RA interacted with Mr Ganapathy Subramaniam K  
AVP - Technical, JANATICS India Pvt. Ltd, Coimbatore.**



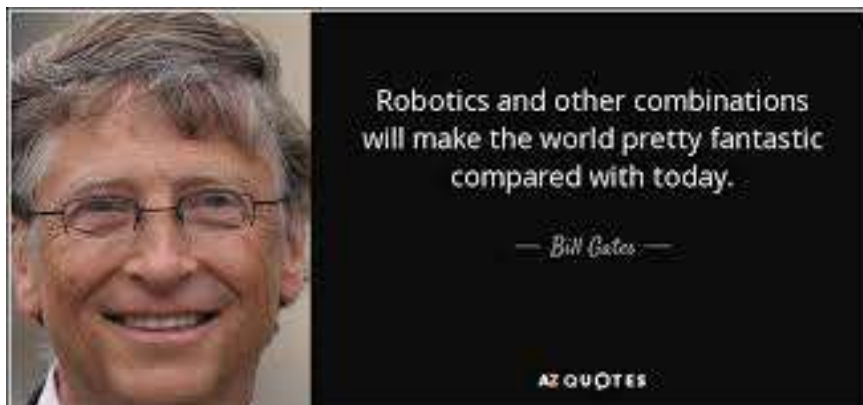
**Venue of DIDAC India 2023, Bengaluru**

**NPTEL Course Translation**

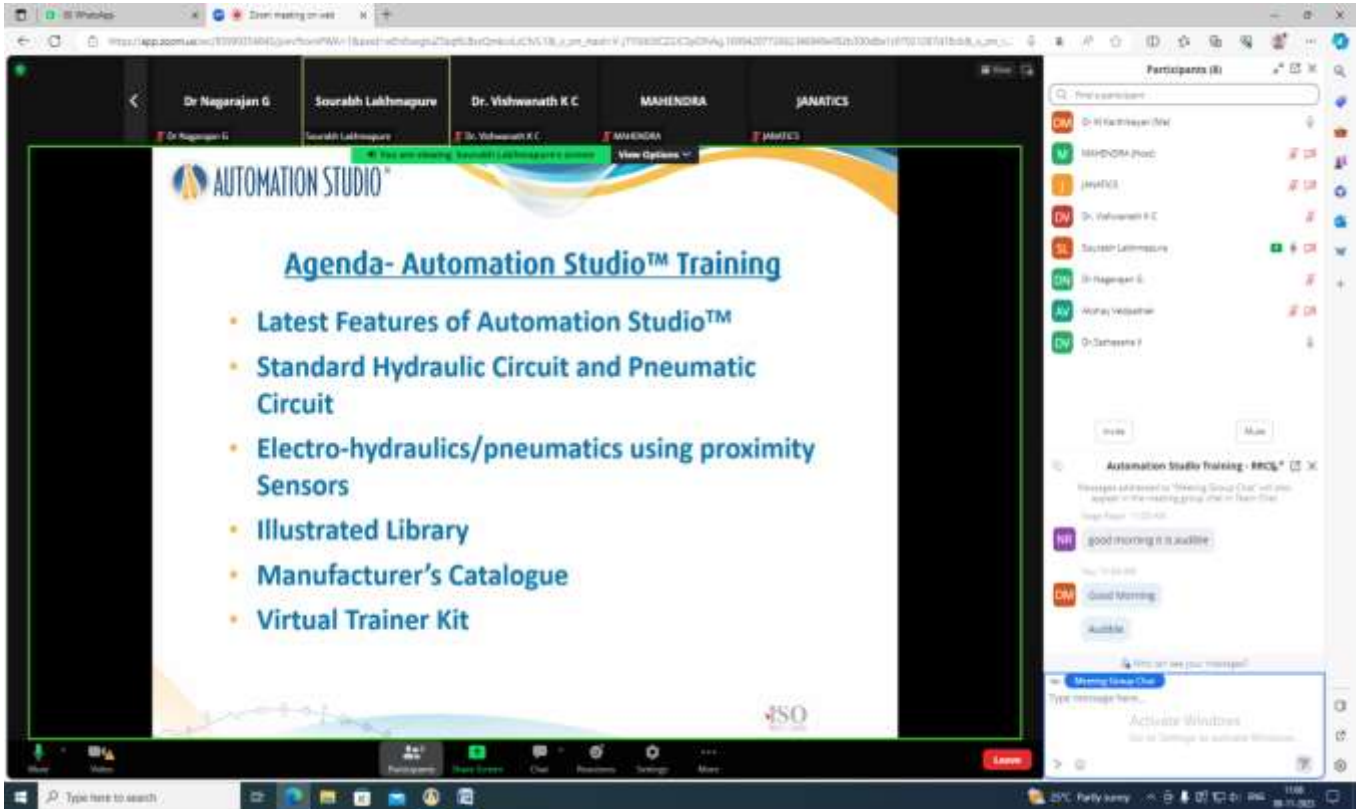
Dr. Vishwanath K C, Associate Professor, Department of Robotics and Automation Engineering has translated course material for National Programme on Technology Enhanced Learning (NPTEL) on the following subjects

**Course title: Engineering Mechanics- Statics and Dynamics.**

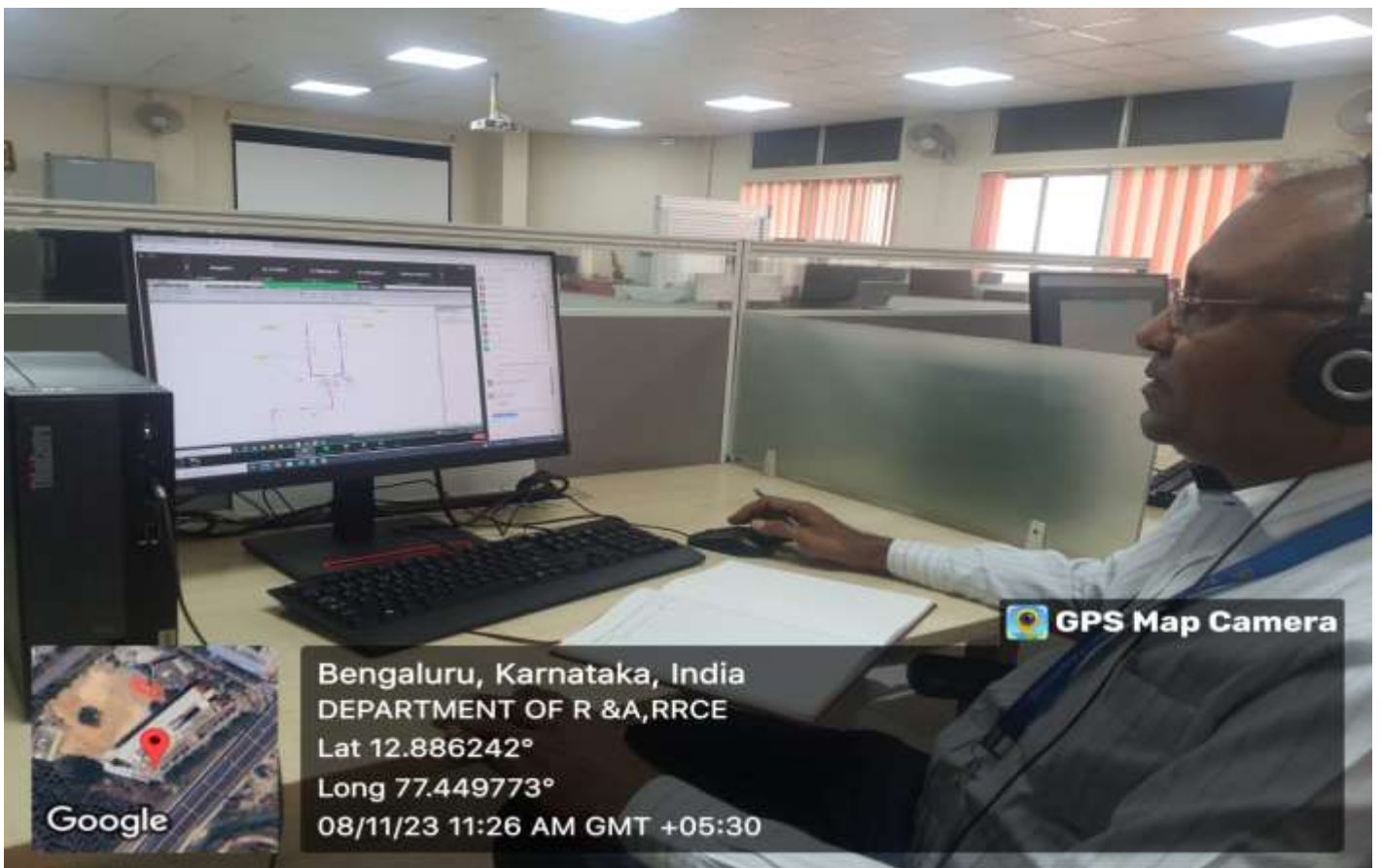
**Translate language: Kannada**

**NPTEL Certificate**

Online training on “Automation Studio”



Automation Studio online training



Dr.M.Karthikeyan, HOD RA attending the online training on “Automation Studio”

Five days Faculty Development Program on “Enhancing the Teaching and Learning Process  
using ICT Tools”

13<sup>th</sup> – 18<sup>th</sup> November 2023



**Dr.M.Karthikeyan**  
**Professor and Head**  
**Department of Robotics and Automation**

Certificate



Five days Faculty Development Program on “Enhancing the Teaching and Learning Process  
using ICT Tools”  
13<sup>th</sup> – 18<sup>th</sup> November 2023



**Dr N Sreenivasalu Reddy**  
**Associate Professor**  
**Department of Robotics and Automation**

**Certificate**



**Design Patent**  
**“ FLAT PLATE SOLAR COLLECTOR WITH WAVY SHAPED RISER TUBES “**



**Dr. N. Sreenivasalu Reddy Associate Professor obtained design patent along with other scholars**



**Five Days Faculty Development Program on “3D Printing and Additive Manufacturing Technology”,**  
Funded by the National Centre for Additive Manufacturing (NCAM), Ministry of Electronics and Information Technology, Govt. of Telangana  
**26<sup>th</sup> Feb – 1<sup>st</sup> March 2024**



**Felicitations to Chief Guest Dr.U Chandrasekhar, CEO, GMSIR, Bangalore**



**Key note speech by Dr.U Chandrasekhar, CEO, GMSIR, Bangalore**

**Department of Robotics and Automation**



**Presentation by Mrs. Akshatha, Addwize leader–Manager, Wipro3D, Bangalore**



**Lab Session: Demo of DLPprinter, Mr.B.S.Manish,Wipro3D, Bangalore**



**Presentation by Dr.T.RamPrabhu, Scientist B, DRDO, Bangalore**

**Industrial visit Indian Machine Tool  
Manufacturers' Association (IMTMA) and India Manufacturing Show (IMS) 2023**



Bengaluru, Karnataka, India  
IMTMA, Bengaluru, Totadaguddadahalli, Karnataka 562162, India  
Lat 13.060823°  
Long 77.474027°  
03/11/23 11:00 AM GMT +05:30

**Students are seated in the Indian Machine Tool Manufacturers' Association (IMTMA) seminar hall**



Bengaluru, Karnataka, India  
3F6G+9G4, Bengaluru, Totadaguddadahalli, Karnataka 562162, India  
Lat 13.060697°  
Long 77.476486°  
03/11/23 09:35 AM GMT +05:30

**Group photos in front of India Manufacturing Show (IMS) 2023 at Bangalore International Exhibition Center (BIEC)**

**Industrial visit- JANATICS Experience Centre, Bangalore**



**Mr. Subramanya Bhat , General Manager, Janatics India Pvt. Ltd. address the program to the 5<sup>th</sup> semeser studetns of the Robotics and Automation .**



**HoD, Dr. M. Karthikeyan, Dr. Satheesha.V, Associate Professor are interacted with the students.**



**Mr.Mahendra, Janatics India Pvt. Ltd explain the Pneumatic components to the students**



**Group photo with resource persons of Janatics India Pvt. Ltd**

**Industrial visit- WIPRO 3D, Bangalore**



**Group photo with Dr. R Balakrishna. Principal, Dr. M.Karthikeyan, HoD of RA, Faculty Member & Students**



**Mr. Santhosh M S, Manager, WIPRO 3D interacting with Students**

Industrial Visit



**2<sup>nd</sup> year, 3<sup>rd</sup> semester Students of the Department of Robotics and Automation Engineering are ready to board the bus to M/s Bharath Arts and Crafts, Channapatna, Ramnagara (Dt) as part of the subject Social Connect and Responsibilities**



**Workers demonstrated the process of the handmade wooden toys to the students**

**Career Development Programme**



**Principal Dr. R Balakrishna honoured the Chief Guest Mr.Abdul Majeed, Lead Engineer, Delta MEP Technical Academy, Bengaluru**



**Chief Guest Mr.Abdul Majeed addressed the gathering about HVAC**



**Group photo with the Chief Guest Mr.Abdul Majeed  
Department of Robotics and Automation**

**Talent Hunt Event- 2023”**



**Chief Guest Mr. Rajashekara H V, Advisor and Head IMTMA Design Institute (BIEC) lighting up the lamp& inaugurated the event Talent Hunt Event – 2023 winners and prize distribution**

**Event name : Technical quiz**



**1<sup>st</sup> prize winners- Rohith V Gowda, Indresh A, Likith K, Yuvaraj S of 2<sup>nd</sup> year RA students received the prize money from the HOD RA Dr.M.Karthikeyan along with faculty coordinator Dr.Radhakrishna R K**

Event name: Times Out



**1<sup>st</sup> prize winners- Soujanya Nagraj Shali, Spoorthi Janadri, Charan Gowda N, Shreyas S Rai of 2<sup>nd</sup> year RA students received the prize money from the HOD RA Dr.M.Karthikeyan along with faculty coordinator Dr.Radhakrishna R K**



**2<sup>nd</sup> prize winners-Hemanth P, Akshaye Kanna SV, Kumarswamy KP, Likith M R 2<sup>nd</sup> year RA students received the prize money from the HOD RA Dr.M.Karthikeyan along with faculty coordinator Dr.Radhakrishna R K**

Event name: Super minute



1<sup>st</sup> prize winner- Gnanashree V, 2<sup>nd</sup> year RA students from Ms.Nithashree of 3<sup>rd</sup> Year student



2<sup>nd</sup> prize winner, Shreyas S Rai 2<sup>nd</sup> year RA students from the HOD RA Dr.M.Karthikeyan along with faculty coordinator Dr.Radhakrishna R K



Group photo during Talent Hunt Programme



**Technical Seminar on “Enhancement of Productivity Automation and Robotics”**



Principal Dr. R Balakrishna honoured the Chief Guest Mr. Rajashekara H V, Advisor and Head IMTMA Design Institute (BIEC)



Group photo of Robotics students with the Chief Guest Mr. Rajashekara H V, Advisor and Head IMTMA Design Institute (BIEC)

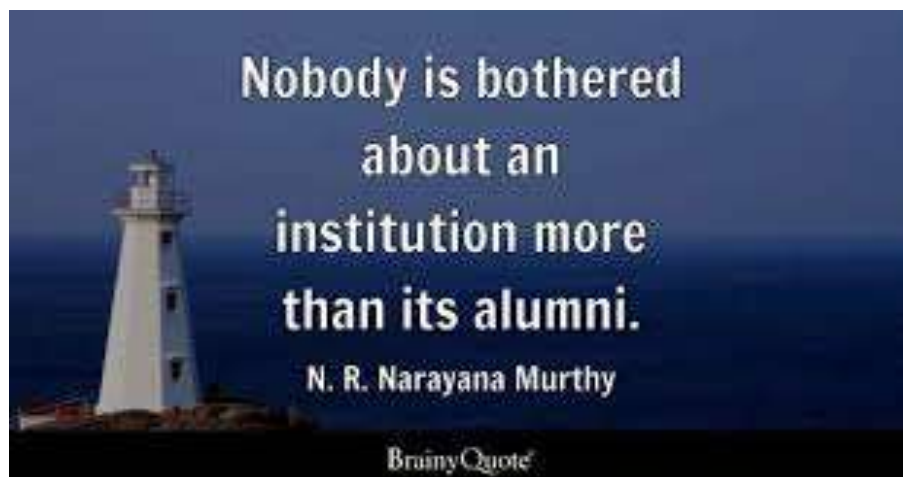
Alumni Interaction



Dr. M.Karthikeyan, HOD RA& Faculty Members honoured the Chief Guest Mr. Deepak M Sangme & Mr. Vinay S of Mechanical Engineering Alumni.



Group photo with the Alumni during the interaction.



**Sports Talent Hunt (First Year Students) on the event of Kannada Rajyotsava 2023**



**1<sup>st</sup> Year students of Robotics and Automation playing Kabaddi**



**1<sup>st</sup> Year students of Robotics and Automation winning the Kabaddi and express their happiness**



**1<sup>st</sup> Year students of Robotics and Automation winning the Kabaddi and express their happiness along with the Principal, Vice Principal and HOD's**

**The editorial committee of the Department of Robotics and Automation News letter**

**Newsletter Head and Compiler**

**DR.M.KARTHIKEYAN, PROFESSOR AND HEAD**

**MRS. MRS.CHETANA, TA, DEPARTMENT OF ROBOTICS AND AUTOMATION**

**Staff Co-Ordinators**

**DR.VISHWANATH K C, ASSOCIATE PROFESSOR**

**DR.N.SREENIVASALU REDDY, ASSOCIATE PROFESSOR**

**DR.SATHEESHA V, ASSOCIATE PROFESSOR**

**Student Co ordinators:**

**MS. NISANKA MANSI C, 1RR21RA016**

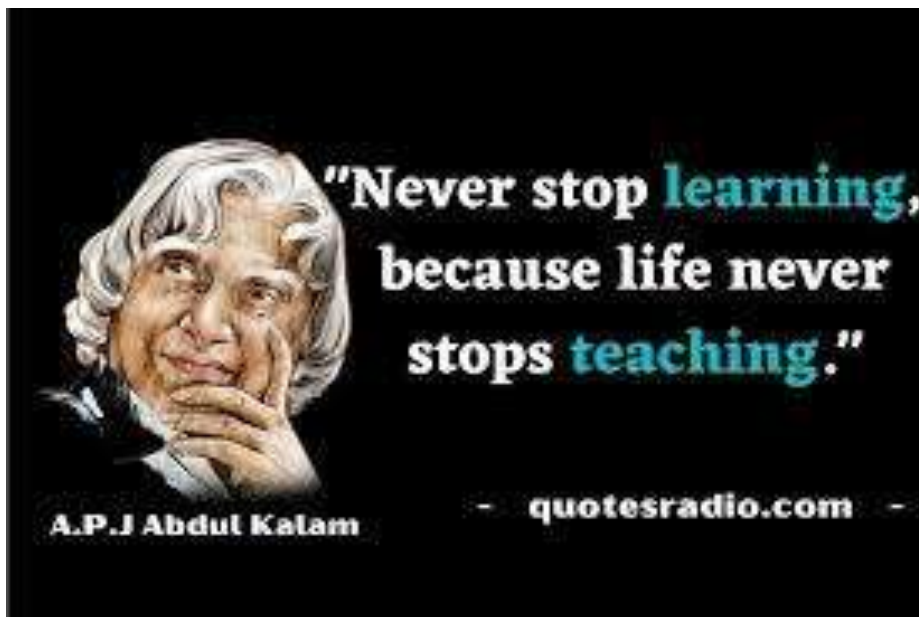
**MR. LOHITH M R, 1RR21RA011**

**MS.NITHASHREE, 1RR21RA017**

**MS.BHUMIKA HS , 1RR21RA003**

**MR. TANZEEM 1RR22RA028**

**MR. JAFFER A, 1RR22RA010**



**Department of Robotics and Automation**

**RajaRajeswari College of Engineering**

**#14, Ramohalli Cross, Kumbalagodu,**

**Bengaluru-560074.**

**Karnataka.**

**Mail id: [hodra@rrce.org](mailto:hodra@rrce.org)**

**➤ Newsletter compiled by  
DR.M.KARTHIKEYAN  
PROFESSOR AND HEAD**

**Department of Robotics and Automation**

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**Department of Robotics and Automation**