



RAJARAJESWARI COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to
Visvesvaraya Technological University, Belagavi)

#14, Ramohalli Cross, Kumbalagodu, Mysuru Road, Bengaluru-560074.

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CSE, ECE, ISE



Department of Electrical and Electronics Engineering

VALUE ADDED COURSE/SKILL TRAINING

on

BASICS OF ROBOTICS



DATE

16/01/2024 to 20/01/2024



TIME

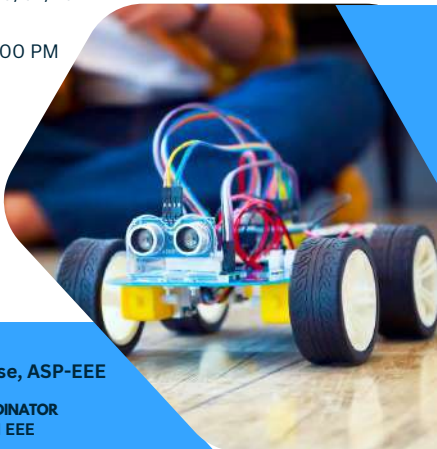
09:00 AM - 04:00 PM



VENUE

EEE Lab

REGISTER NOW



TRAINER

Dr.R.Arul Jose, ASP-EEE

STUDENT COORDINATOR

Mr.B.Pavan, III EEE

Dr.P.Ebby Darney
HOD-EEE

Dr.R.Balakrishna
PRINCIPAL

ADMISSION OPEN FOR 2024-2025
CET CODE: E145 COMED-K: E099 PGCET: T858
CONTACT: +91-80-28437375

www.rrce.org
Email Id: admission@rrce.org



Department of Electrical and Electronics Engineering

Date:09/01/2024


CIRCULAR

We are excited to announce a valuable opportunity for all interested individuals to enhance their skills in the field of robotics. To secure your spot in this course, please register by 12/01/24. Limited seats are available, so don't miss out on this opportunity to expand your knowledge and skills in the exciting field of robotics. We look forward to your active participation in this enriching event.

Event Name : Value added course/Skill training on "Basics of Robotics"
Date : 16th to 20th January 2024
Venue & Time : EEE Lab / 09:00am to 04:00pm
Trainer : Dr.R.Arul Jose
Associate Professor
Department of EEE
RajaRajeswari College of Engineering.

Registration Link: <https://forms.gle/rgb6ew87L1xiQ1LBA>


Event Coordinator
Dr.R.Arul Jose


HoD & HOD
Dept. of Electrical & Electronics Engg
Rajarajeswari College Of Engineering
Bengaluru-74



Department of Electrical and Electronics Engineering


Date:09/01/2024

SCHEDULE

Event Name : Value added course/Skill training on "Basics of Robotics"
Date : 16th to 20th January 2024
Venue & Time : EEE Lab / 09:00am to 04:00pm
Trainer : Dr.R.Arul Jose
Associate Professor
Department of EEE
RajaRajeswari College of Engineering.

Day	Topics Covered
Day 1	Introduction to Robotics-Arduino Programming-Simulation using Tinkercad.
Day 2	Installation of Arduino Ide-Realtime Implementation of Arduino- buzzer- Ultrasonic sensor-IR sensor-PIR sensor
Day 3	Bluetooth Module HC-05- Motor Driver L298N- Developing Bluetooth controlled Robot using Arduino UNO
Day 4	Developing line follower Robot using Arduino UNO
Day 5	Robo race-Introduction to various robot- valedictory function


Event Coordinator
Dr.R.Arul Jose


HoD
Dept. of Electrical & Electronics Engg.
Rajarajeswari College Of Engineering
Bengaluru-74

RajaRajeswari College of Engineering

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Department of Electrical and Electronics Engineering

Date: 16/01/2024

Registration

Event Name : Value added course/Skill training on "Basics of Robotics"

Date : 16th to 20th January 2024

Venue & Time : EEE Lab 3:00pm to 5:00pm

Trainer : Dr.R.Arul Jose
Associate Professor
Department of EEE
RajaRajeswari College of Engineering.

S.No	Name	USN Number	Year/Sem	Department	Email
1.	Tejaswini C	1RR23F629	I Year/I Sem	EEE	tejaswini539@gmail.com
2.	CHANDANA. N	1RR23F692	I Year/I Sem	EEE	chandananawamy2004@gmail.com
3.	SUBHASH G	1RR22EE033	II Year/III Sem	EEE	subhash24g2004@gmail.com
4.	NITHIN A	1RR22EE019	II Year/III Sem	EEE	nithin.a900@gmail.com
5.	Gandikota Vishnu Datta	1RR22EE013	II Year/III Sem	EEE	vishnudatta35@gmail.com
6.	DEEKSHITHA REDDY S	1RR22EE010	II Year/III Sem	EEE	deekshithashivareddy@gmail.com
7.	H K VIJAY KUMAR	1RR22EE038	II Year/III Sem	EEE	kantarajuk707@gmail.com
8.	PRAJWAL RJ	1RR22EE021	II Year/III Sem	EEE	jawaliraja@gmail.com
9.	HAJILAL SAB	DIPLOMA	II Year/III Sem	EEE	hajipadeknoor@gmail.com
10.	MALLIKARJUNA KM	1RR23DD37	II Year/III Sem	EEE	colorful3123@gmail.com
11.	CHIDANANDASWAMI	1RR22EE008	II Year/III Sem	EEE	chidanandaswami04cr@gmail.com
12.	PAVAN KUMAR R L	1RR22EE020	II Year/III Sem	EEE	rlpavan1086@gmail.com
13.	BM DARSHAN	Diplomo lateral entry	II Year/III Sem	EEE	darshanbanakar306@gmail.com
14.	PRAJWAL L	1RR22EE022	II Year/III Sem	EEE	lokeshmurthyslokesh347@gmail.com
15.	GURUKIRAN AL	Diploma	II Year/III Sem	EEE	gurukiranaldasar@gmail.com
16.	PREMKUMAR M	Diploma	II Year/III Sem	EEE	premkumarm8151855@gmail.com
17.	LIKITH A	1RR22EE016	II Year/III Sem	EEE	alikhith294@gmail.com
18.	H K VIJAY KUMAR	1RR22EE038	II Year/III Sem	EEE	kantarajuk707@gmail.com
19.	ASHER SUMITH	1RR22EE006	II Year/III Sem	EEE	ashersumith777@gmail.com
20.	JEEVAN P	1RR22EE014	II Year/III Sem	EEE	jeevanjeevu22160@gmail.com
21.	LITHISH M R	1RR22EE017	II Year/III Sem	EEE	lithishmr14@gmail.com
22.	Bharath N J	Lateral	II Year/III Sem	EEE	bbharathnj@gmail.com
23.	Aishwarya S	1RR21EE002	III Year/IV Sem	EEE	aishwaryasaravanan1810@gmail.com
24.	JOEL SIBI	1RR22EE407	III Year/IV Sem	EEE	lifeofjoel357@gmail.com
25.	SAI VIVEK Y	1RR22EE414	III Year/IV Sem	EEE	saivivek6y@gmail.com

Event Coordinator
Dr.R.Arul Jose

HOD-EEE



Raja Rajeswari College of Engineering



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Department of Electrical and Electronics Engineering

5 Day workshop on Basics of Robotics

Attendance Sheet

S.No	Name	USN Number	Dept	Day 1 16/01/24	Day 2 17/01/24	Day 3 18/01/24	Day 4 19/01/24	Day 5 20/01/24
1.	Ashes Sumith	IRR22EE006	EEE	Ashes	Ashes	Ashes	Ashes	Ashes
2.	Likith A	IRR22EE016	EEE	Likith	Likith	Likith A	Likith	Likith A
3.	Nithin A	IRR22EE019	EEE	Nithin	Nithin	Nithin	Nithin	Nithin
4.	JEEVAN P	IRR22EE014	EEE	Jeevan P	Jeevan P	Jeevan P	Jeevan P	Jeevan P
5.	Prem Kumar M	Diploma	EEE	M.Prem	M.Prem	M.Prem	M.Prem	M.Prem
6.	BM DARSHAN	- 11 -	EEE	Darshan	Darshan	Darshan	Darshan	Darshan
7.	Chidanandamani	IRR22EE008	EEE	Chidan	Chidan	Chidan	Chidan	Chidan
8.	SUBHASH G	IRR22EE033	EEE	Subhash	Subhash	Subhash	Subhash	Subhash
9.	Bharath N.J	Diploma	EEE	Bharath	Bharath	Bharath	Bharath	Bharath
10.	H.K.Vijay Kumar	IRR22EE038	EEE	H.K.Vijay	H.K.Vijay	H.K.Vijay	H.K.Vijay	H.K.Vijay
11.	Kumudhan A.L	- 11 -	EEE	Kumudhan	Kumudhan	Kumudhan	Kumudhan	Kumudhan
12.	Tejaswini C	IRR23F62A	EEE	Tejaswini	Tejaswini	Tejaswini	Tejaswini	Tejaswini
13.	Chandana N	IRR23F692	EEE	Chandana	Chandana	Chandana	Chandana	Chandana
14.	Vishnu Datta	IRR22EE013	EEE	Vishnu	Vishnu	Vishnu	Vishnu	Vishnu
15.	Haji Lal Bab	Diploma	EEE	Haji Lal	Haji Lal	Haji Lal	Haji Lal	Haji Lal
16.	Prarajwal A.J	IRR22EE021	EEE	Prarajwal	Prarajwal	Prarajwal	Prarajwal	Prarajwal
17.	Pawan Kumar B.L	IRR22EE020	EEE	Pawan	Pawan	Pawan	Pawan	Pawan
18.	LITHISH M.R	IRR22EE017	EEE	Lithish	Lithish	Lithish	Lithish	Lithish
19.	Thombasa Selva S	Diploma	EEE	Thombasa	Thombasa	Thombasa	Thombasa	Thombasa
20.	Deekshitha Reddy S	IRR22EE010	EEE	Deekshitha	Deekshitha	Deekshitha	Deekshitha	Deekshitha
21.	Mallikarjun KM	DIP	EEE	Mallikarjun	Mallikarjun	Mallikarjun	Mallikarjun	Mallikarjun
22.	SAT VIVEK Y	IRR22EE414	EEE	Sat Vivek	Sat Vivek	Sat Vivek	Sat Vivek	Sat Vivek
23.	Ashwanya S	IRR21EE002	EEE	Ashwanya	Ashwanya	Ashwanya	Ashwanya	Ashwanya
24.	JOEL SIBI	IRR22EE407	EEE	Joel	Joel	Joel	Joel	Joel
25.	Prarajwal L	IRR22EE022	EEE	Prarajwal	Prarajwal	Prarajwal	Prarajwal	Prarajwal

Coordinator

HoD/EEE



Department of Electrical and Electronics Engineering

Date:22/01/2024

Report

Event Name : Value added course/Skill training on “Basics of Robotics”
Date : 16th to 20th January 2024
Venue & Time : EEE Lab 09:00am to 04:00pm
Trainer : Dr.R.Arul Jose
Associate Professor
Department of EEE
RajaRajeswari College of Engineering.

Day 1: Introduction to Robotics-Arduino Programming-Simulation using Tinkercad

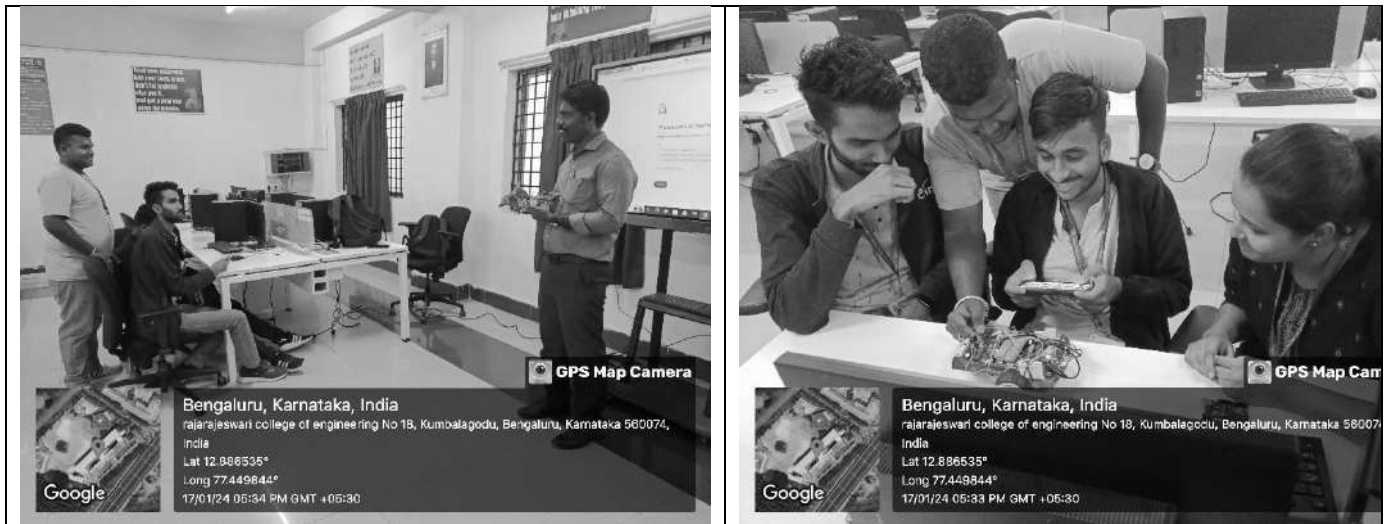
The workshop commenced with encouraging speech by Dr.P.Ebby Darney, HoD of EEE Department. The course started an engaging introduction to the fascinating world of robotics and Arduino programming by the Trainer. Participants gained insights into the principles of robotics and the basics of programming using the versatile Arduino platform. The day concluded with hands-on simulation exercises using Tinkercad, allowing attendees to visualize and experiment with their newly acquired knowledge.



Day 2: Installation of Arduino Ide-Realtime Implementation of Arduino-Buzzer- Ultrasonic Sensor-IR Sensor-PIR Sensor

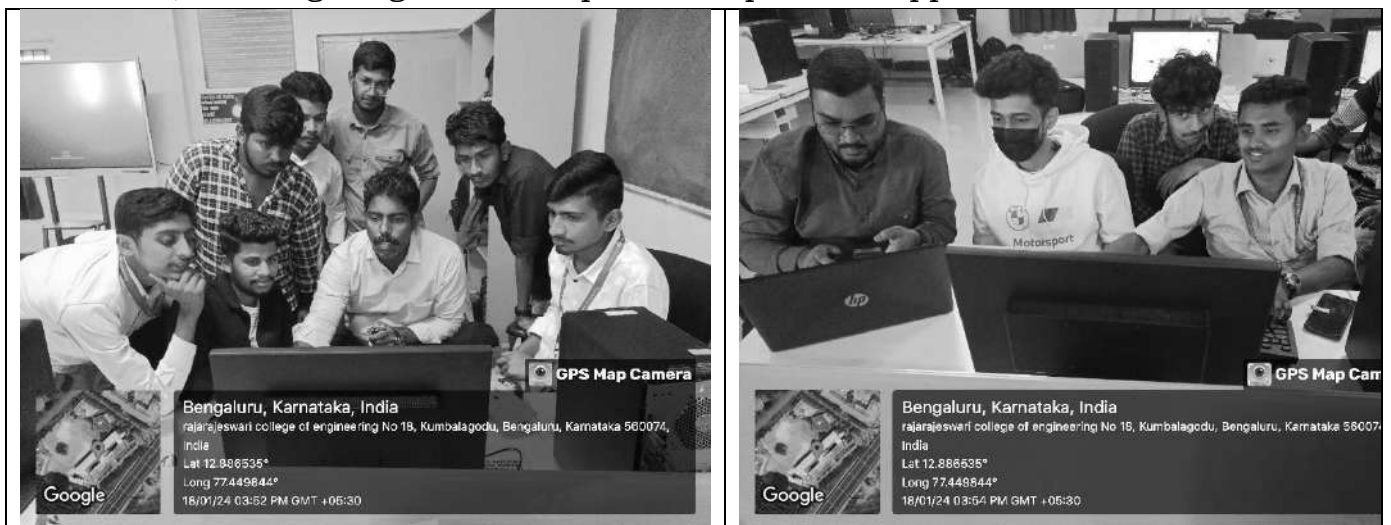
Participants delved into practical aspects on Day 2, starting with the installation of Arduino IDE. Real-time implementation of Arduino involved working with essential components such as buzzers, ultrasonic sensors, IR

sensors, and PIR sensors. This session provided a solid foundation for participants to understand the functioning of these components and their integration with Arduino.



Day 3: Bluetooth Module HC-05- Motor Driver L298N- Developing Bluetooth Controlled Robot using Arduino UNO

Day 3 focused on advanced topics, introducing Bluetooth technology with the HC-05 module and Motor Driver L298N. Participants actively engaged in developing a Bluetooth-controlled robot using Arduino UNO. This hands-on session enhanced their skills in wireless communication and motor control, marking a significant step towards practical applications in robotics.



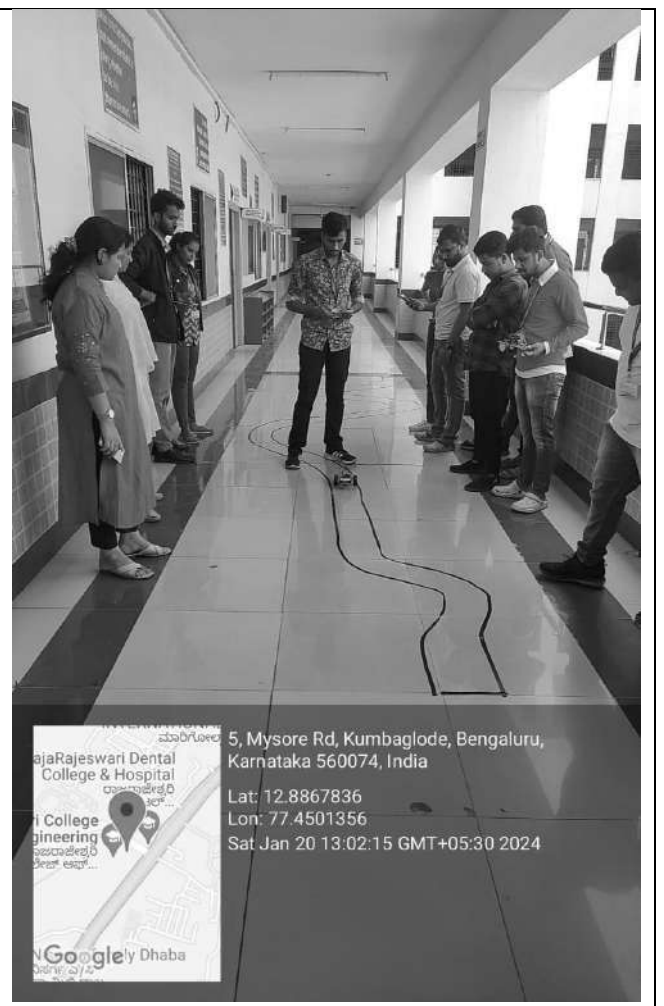
Day 4: Developing Line Follower Robot using Arduino UNO

The fourth day centered around the development of a line follower robot, showcasing the integration of sensors and programming logic. Participants learned how to implement algorithms that enable a robot to follow a predefined path. This session emphasized the importance of precision in programming and sensor calibration for successful robotics projects.



Day 5: Robo Race-Introduction to Various Robots-Valedictory Function

The concluding day featured a thrilling Robo Race, where participants demonstrated the practical application of their acquired skills in a competitive environment. The workshop concluded with an introduction to various types of robots, providing a comprehensive overview of the diverse applications in the field of robotics. The valedictory function was headed by Dr.J. Amutharaj, Vice Principal and Dr.P.Ebby Darney, HoD-EEE department. The valedictory ceremony celebrated the achievements of the participants and acknowledged their dedication throughout the workshop.





The 5 day workshop on Basics of Robotics at RajaRajeswari College of Engineering provided participants with a holistic understanding of robotics principles and hands-on experience in Arduino programming. The combination of theoretical sessions, practical implementations, and a competitive Robo Race ensured that participants left with a well-rounded skill set. The workshop not only enriched the knowledge of the participants but also fostered a sense of enthusiasm and curiosity for the dynamic field of robotics. The success of this workshop is a testament to the commitment of the EEE department at RajaRajeswari College of Engineering in providing quality hands-on training opportunities to its students.

Dr. R. Arul Jose
 22/1/24
 Event Coordinator
 Dr.R.Arul Jose

[Signature]
 HoD

[Signature]
 Principal



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Department of Electrical and Electronics Engineering

Certificate of Appreciation

This is to certify that Mr/Ms LAKSHI A
of 2nd year B.E. EEE has attended on-hand skill training workshop on Basics of
Robotics for 5 Days from 16.01.2024 to 20.01.2024 at RajaRajeswari College of
Engineering, Bengaluru.


Dr. R. Arul Jose
Coordinator


Dr. P. Eddy Dainey
HOD-EEE


Dr. R. Balakrishna
Principal



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NATIONAL BOARD
OF ACCREDITATION
GSE, EGE, ISE



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Department of Electrical and Electronics Engineering

Certificate of Appreciation

This is to certify that Mr/MS PRAVAN KUMAR RL

of 3rd year B.E. EEE has attended on-hand skill training workshop on Basics of Robotics for 5 Days from 16.01.2024 to 20.01.2024 at RajaRajeswari College of Engineering, Bengaluru.


Dr. R. Arul Jose
Coordinator


Dr. P. Ebbay Darney
HOD-EEE


Dr. R. Balakrishna
Principal





RAJARAJESWARI COLLEGE OF ENGINEERING

(An Autonomous Institution Approved by UGC under Visvesvaraya
Technological University* and Approved by AICTE, New Delhi)

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Department of Electrical and Electronics Engineering

VALUE ADDED COURSE/SKILL TRAINING

on

INTRODUCTION TO DRONE TECHNOLOGY & HUMANOID ROBOTICS



DATE

15/07/2024 to 19/07/2024



TIME

09:00 AM - 04:00 PM



VENUE

EEE Lab



TRAINER

Mr. Keerthik Kumar S

CEO & Founder of Technovation



Prof. Shivalingaiah K.L.
COORDINATOR

Dr.P.Ebby Darney
HOD-EEE

Dr.R.Balakrishna
PRINCIPAL

ADMISSION OPEN FOR 2024-2025
CET CODE: E145 COMED-K: E099 PGCET: T858
CONTACT: +91-80-28437375

www.rrce.org

Email Id: admission@rrce.org



Department of Electrical and Electronics Engineering

Date:08/07/2024

CIRCULAR

We are pleased to announce a Hands-on Skill Training on Introduction to Drone Technology & Humanoid Robotics, organized by the Department of Electrical & Electronics Engineering. The event is scheduled as follows:

Event Name : Value added course/Skill training on "Introduction to Drone Technology & Humanoid Robotics"
Date : 15th to 19th July 2024
Venue & Time : Tesla Hall, EEE Dept / 09:00am to 04:00pm
Trainer : Mr. Keerthik Kumar S,
CEO & Founder
Technovation, Tirunelveli, Tamilnadu

The training session aims to provide second and third-year students with practical knowledge and skills in the fields of drone technology and humanoid robotics. The session will cover:

Guest Lecture: Insights on the latest trends and applications in drone technology and humanoid robots.

Hands-on Training: Assembling drone components, programming drones, and understanding humanoid robot mechanics.

Interactive Session: Q&A with the guest speaker and technical experts.

Event Coordinator

HoD

Professor
Dept. of Electrical & Electronics Engg.
Rajarajeswari College of Engineering
Bengaluru-74



Department of Electrical and Electronics Engineering


Date:08/07/2024

SCHEDULE

Event Name : Value added course/Skill training on "Introduction to Drone Technology & Humanoid Robotics"
Date : 15th to 19th July 2024
Venue & Time : Tesla Hall, EEE Dept / 09:00am to 04:00pm
Trainer : Mr. Keerthik Kumar S,
CEO & Founder
Technovation, Tirunelveli, Tamilnadu

Day	Topics	Session 1 9.00 am to 10.30 am	Session 2 10.45 am to 12.45 pm	Session 3 2.00 pm to 4.00 pm
Day 1 15.07.24	Introduction to Drone Technology	Overview of Drones	Drone Components and Technology	Hands-on Assembly and Calibration
Day 2 16.07.24	Drone Flight and Control Systems	Principles of Flight	Introduction to Drone Piloting	Hands-on Drone Piloting
Day 3 17.07.24	Introduction to Humanoid Robotics	Basics of Robotics	Humanoid Robot Design	Hands-on Robot Assembly
Day 4 18.07.24	Humanoid Robotics Programming and Control	Introduction to Humanoid Robot Programming	Advanced Robot Movements	Hands-on Programming Session
Day 5 19.07.24	Applications and Future Trends	Drones in Advanced Applications	Future of Humanoid Robotics	Final Project and Demo


8/7/24
Event Coordinator


HoD
Professor & HoD
Dept. of Electrical & Electronics Engg.
Rajarajeswari College Of Engineering
Bengaluru-74

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

Phone:+91-80-28437124 / 28437375

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Department of Electrical and Electronics Engineering

Date:12/07/2024

Registration

Event Name : Value added course/Skill training on "Introduction to Drone Technology & Humanoid Robotics"
Date : 15th to 19th July 2024
Venue & Time : Tesla Hall, EEE Dept / 09:00am to 04:00pm
Trainer : Mr. Keerthik Kumar S,
CEO & Founder
Technovation, Tirunelveli, Tamilnadu

S.No	Name	USN Number	Year/Sem	Department
1.	AFNAN SHARIFF A	1RR21EE001	III/VI	EEE
2.	AISHWARYA S	1RR21EE002	III/VI	EEE
3.	B PAVAN	1RR21EE003	III/VI	EEE
4.	BHUMIKA K RAMESH	1RR21EE004	III/VI	EEE
5.	JYOTHSNA RAM. P	1RR21EE005	III/VI	EEE
6.	KEERTHANA G C	1RR21EE006	III/VI	EEE
7.	MANOJ KP	1RR21EE007	III/VI	EEE
8.	MARUTHI . T	1RR21EE008	III/VI	EEE
9.	MOHAMMED KAIF	1RR21EE009	III/VI	EEE
10.	POOJA H PATEL	1RR21EE010	III/VI	EEE
11.	PUNITH N	1RR21EE011	III/VI	EEE
12.	VINU DHARANI K L	1RR21EE012	III/VI	EEE
13.	VISHAL G	1RR21EE013	III/VI	EEE
14.	VIVEK N	1RR21EE014	III/VI	EEE
15.	YESHWANTH NAIDU. M	1RR21EE015	III/VI	EEE
16.	BHARATH K GOWDA	1RR22EE400	III/VI	EEE
17.	BHARATH N	1RR22EE401	III/VI	EEE
18.	CHANDAN S P	1RR22EE402	III/VI	EEE
19.	GIRISH PRABHAKAR BHANDARI	1RR22EE404	III/VI	EEE
20.	HARSHITHA C	1RR22EE405	III/VI	EEE
21.	HIRE KURUBAR ANILKUMAR	1RR22EE406	III/VI	EEE
22.	JOEL SIBI	1RR22EE407	III/VI	EEE
23.	JYOTI	1RR22EE408	III/VI	EEE
24.	KEERTHANA B	1RR22EE409	III/VI	EEE
25.	MATHEW PAUL J	1RR22EE410	III/VI	EEE
26.	PRAJWALA M P	1RR22EE411	III/VI	EEE
27.	PRAKRUTHI S	1RR22EE412	III/VI	EEE
28.	RAKSHITHA SY	1RR22EE413	III/VI	EEE
29.	SAI VIVEK Y	1RR22EE414	III/VI	EEE
30.	SHRUTHI GS	1RR22EE415	III/VI	EEE
31.	YASHVANTH SIDDU AS	1RR22EE417	III/VI	EEE

Event Coordinator
Dr.R.Arul Jose

HOD-EEE
Dept. of Electrical & Electronics Engg.
Rajarajeswari College Of Engineering
Bengaluru-74



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Department of Electrical and Electronics Engineering

Attendance Sheet

Event Name : Value added course/Skill training on "Introduction to Drone Technology & Humanoid Robotics"

Date : 15th to 19th July 2024


Venue & Time : Tesla Hall, EEE Dept / 09:00am to 04:00pm

Trainer : Er. Keerthik Kumar S & Er. G. Vedha Jeyaram
Technovation, Tirunelveli, Tamilnadu

S.No	Name	USN Number	Day 1 15/07/24	Day 2 15/07/24	Day 3 15/07/24	Day 4 15/07/24	Day 5 15/07/24
1.	AFNAN SHARIFF A	1RR21EE001	AB	AB	AB	AB	AB
2.	AISHWARYA S	1RR21EE002	AB	AB	AB	AB	AB
3.	B PAVAN	1RR21EE003	AB	AB	AB	AB	AB
4.	BHUMIKA K RAMESH	1RR21EE004	Bhumika K Ramesh	Bhumika K Ramesh	Bhumika K Ramesh	Bhumika K Ramesh	Bhumika K Ramesh
5.	JYOTHSNA RAM. P	1RR21EE005	Jyothsna	Jyothsna	Jyothsna	Jyothsna	Jyothsna
6.	KEERTHANA G C	1RR21EE006	Ke	Ke	Ke	Ke	Ke
7.	MANOJ KP	1RR21EE007	Manoj KP	Manoj KP	Manoj KP	Manoj KP	Manoj KP
8.	MARUTHI . T	1RR21EE008	Maruthi	Maruthi	Maruthi	Maruthi	Maruthi
9.	MOHAMMED KAIF	1RR21EE009	Kaif	Kaif	Kaif	Kaif	Kaif
10.	POOJA H PATEL	1RR21EE010	AB	AB	AB	AB	AB
11.	PUNITH N	1RR21EE011	Puni-N	Puni-N	Puni-N	Puni-N	Puni-N
12.	VINU DHARANI K L	1RR21EE012	Vinu	Vinu	Vinu	Vinu	Vinu
13.	VISHAL G	1RR21EE013	Vishal	Vishal	Vishal	Vishal	Vishal
14.	VIVEK N	1RR21EE014	Vivek	Vivek	Vivek	Vivek	Vivek

15.	YESHWANTH NAIDU. M	1RR21EE015	Yeshwanth	Yashwanth	Yeshwanth	Yashwanth	Yashwanth
16.	BHARATH K GOWDA	1RR22EE400	Bharath.k	Bharath.k	Bharath.k	Bharath.k	Bharath.k
17.	BHARATH N	1RR22EE401	Bharath	Bharath	Bharath	Bharath	Bharath
18.	CHANDAN S P	1RR22EE402	chandan	chandan	chandan	chandan	chandan
19.	GIRISH PRABHAKAR BHANDARI	1RR22EE404	G	G	G	G	G
20.	HARSHITHA C	1RR22EE405	H	H	H	H	H
21.	HIRE KURUBAR ANILKUMAR	1RR22EE406	K Hire	K Hire	K Hire	K Hire	K Hire
22.	JOEL SIBI	1RR22EE407	Joel	Joel	Joel	Joel	Joel
23.	JYOTI	1RR22EE408	Jyoti	Jyoti	Jyoti	Jyoti	Jyoti
24.	KEERTHANA B	1RR22EE409	Keerthi	Keerthi	Keerthi	Keerthi	Keerthi
25.	MATHEW PAUL J	1RR22EE410	Mathpal	Mathpal	Mathpal	Mathpal	Mathpal
26.	PRAJWALA M P	1RR22EE411	Prajwal.m.p	Prajwal.m.p	Prajwal.m.p	Prajwal.m.p	Prajwal.m.p
27.	PRAKRUTHI S	1RR22EE412	P	P	P	P	P
28.	RAKSHITHA SY	1RR22EE413	Rakshita	Rakshita	Rakshita	Rakshita	Rakshita
29.	SAI VIVEK Y	1RR22EE414	Sai Vivek Y	Sai Vivek Y	Sai Vivek Y	Sai Vivek Y	Sai Vivek Y
30.	SHRUTHI GS	1RR22EE415	Shru	Shru	Shru	Shru	Shru
31.	YASHVANTH SIDDU AS	1RR22EE417	Yash	Yash	Yash	Yash	Yash


Event Coordinator


HOD EEE
Professor, EEE
Dept. of Electrical & Electronics Engg.
Rajarajeswari College Of Engineering
Bengaluru-74



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Department of Electrical & Electronics Engineering

Event Report: Hands-on Skill Training on Introduction to Drone Technology & Humanoid Robotics

Organized by: Department of Electrical & Electronics Engineering, RajaRajeswari College of Engineering, Bengaluru

Date : 15th to 19th July 2024
Venue & Time : Tesla Hall, EEE Dept / 09:00am to 04:00pm
Trainer : Mr. Keerthik Kumar S,
CEO & Founder
Technovation, Tirunelveli, Tamilnadu

Er. G. Vedha Jeyaram,
Chief Technical Officer
Technovation, Tirunelveli, Tamilnadu

Program Coordinators: Dr. R. Arul Jose, Associate Professor
Prof. Shivalingaiah K L, Assistant Professor

Event Overview:

The Department of Electrical and Electronics Engineering at RajaRajeswari College of Engineering organized a five-day value-added course on **Introduction to Drone Technology & Humanoid Robotics** from July 15 to July 19, 2024. The workshop provided students and participants with hands-on experience and in-depth knowledge about cutting-edge technologies in the domains of drone technology and humanoid robotics.

Objectives:

- To introduce participants to the fundamentals of drone technology and humanoid robotics.
- To provide practical training on the assembly and operation of drones.
- To explore the design, control, and programming of humanoid robots.

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

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- To equip participants with the skills needed to work on real-world applications in these emerging fields.

Schedule of event

Day	Topics	Session 1 9.00 am to 10.30 am	Session 2 10.45 am to 12.45 pm	Session 3 2.00 pm to 4.00 pm
Day 1 15.07.24	Introduction to Drone Technology	Overview of Drones	Drone Components and Technology	Hands-on Assembly and Calibration
Day 2 16.07.24	Drone Flight and Control Systems	Principles of Flight	Introduction to Drone Piloting	Hands-on Drone Piloting
Day 3 17.07.24	Introduction to Humanoid Robotics	Basics of Robotics	Humanoid Robot Design	Hands-on Robot Assembly
Day 4 18.07.24	Humanoid Robotics Programming and Control	Introduction to Humanoid Robot Programming	Advanced Robot Movements	Hands-on Programming Session
Day 5 19.07.24	Applications and Future Trends	Drones in Advanced Applications	Future of Humanoid Robotics	Final Project and Demo

Day-wise Summary

Day 1: July 15, 2024

The workshop commenced with an **Introduction to Drone Technology**, where participants learned about the history, types, and applications of drones. This was followed by an overview of drone components, including motors, sensors, flight controllers, and communication systems. The session concluded with hands-on training on drone assembly.



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Day 2: July 16, 2024

Participants were introduced to the Principles of Flight and aerodynamics in drone technology. They gained insights into drone control systems and practiced flying drones in a controlled environment, working on basic maneuvers like hovering, takeoff, and landing.

Day 3: July 17, 2024

The focus shifted to Humanoid Robotics, where participants were introduced to the components and sensors used in humanoid robots. A detailed explanation of the kinematics of humanoid movement was followed by a practical session on assembling basic humanoid structures.

Day 4: July 18, 2024

The session explored the Programming and Control of Humanoid Robots. Participants were taught programming techniques and control algorithms using robotics software and hardware. They also practiced programming humanoid robots to perform basic movements and tasks.

Day 5: July 19, 2024

On the final day, advanced concepts in Drone and Robotics Applications were discussed. Participants explored the future of drone technology in fields like delivery systems and autonomous drones, as well as the role of AI in humanoid robotics. The session ended with a Project Presentation, where participants showcased their projects involving drone flight and humanoid control.

The valedictory function began with a welcome address by Mr. Vishal G, a pre-final year student. This was followed by the Presidential Address delivered by Dr. J. Amutharaj, Vice Principal. The Felicitation was provided by Dr. P. Ebby Darney, Head of the Department of Electrical and Electronics Engineering, who delivered an inspiring speech, emphasizing the importance of staying updated with technological advancements and encouraging students to actively participate in such hands-on sessions. The event concluded with a vote of thanks by Dr. R. Arul Jose, Associate Professor, who expressed gratitude towards the guest speaker, participants, and the organizing team.



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VALUE ADDED COURSE/SKILL TRAINING
on
INTRODUCTION TO
DRONE TECHNOLOGY & HUMANOID ROBOTICS

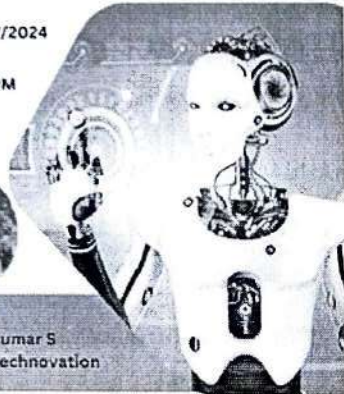
DATE
15/07/2024 to 19/07/2024

TIME
09:00 AM - 04:00 PM

VENUE
EEE Lab



TRAINER
Mr. Keerthik Kumar S
CEO & Founder of Technovation



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Guest Lecture:

- Mr. Keerthik Kumar S, CEO & Founder of Technovation, was the chief guest and speaker for the event. He shared his insights on the latest trends in drone technology and the development of humanoid robots.
- His lecture covered various aspects including the design, development, and real-world applications of drones and humanoid robots.

Hands-on Training:

- The hands-on session was the main highlight of the event where students got the opportunity to work on real drone models and humanoid robots.
- The training included assembling drone components, programming the drones for specific tasks, and understanding the mechanics behind humanoid robots.
- Students were divided into small groups to ensure individual attention and effective learning.

Interactive Session:

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An interactive Q&A session was conducted where students posed their queries to Mr. Keerthik Kumar S. and Er. G. Vedha Jeyaram, Chief Technical Officer. This session provided valuable insights and clarified various doubts related to drone technology and robotics.

Conclusion:

The event concluded with a vote of thanks by Dr. R. Arul Jose, Associate Professor, who expressed gratitude towards the guest speaker, participants, and the organizing team. This event successfully provided students with a valuable learning experience and motivated them to explore further in the field of drone technology and humanoid robotics. The Department of Electrical & Electronics Engineering looks forward to organizing more such informative and engaging events in the future.

HoD & HOD
Dept. of Electrical & Electronics Engg.
Rajarajeswari College Of Engineering
Bengaluru-74

Principal 27/12/22



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Department of Electrical and Electronics Engineering

Certificate of Appreciation

This is to certify that Mr/Ms B.Pavan
of III year B.E. EEE has attended hands-on skill training on **Introduction to
Drone Technology & Humanoid Robotics** for 5 Days from 15.07.2024 to
19.07.2024 at Rajarajeswari College of Engineering, Bengaluru.

Dr.P.Ebby Darney
HoD-EEE

Dr.R.Balakrishna
Principal





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Department of Electrical and Electronics Engineering

Certificate of Appreciation

This is to certify that Mr/Ms Sai Vivek .Y
of III year B.E. EEE has attended hands-on skill training on **Introduction to
Drone Technology & Humanoid Robotics** for 5 Days from 15.07.2024 to
19.07.2024 at Rajarajeswari College of Engineering, Bengaluru.

Dr.P.Ebby Darney
HoD-EEE

Dr.R.Balakrishna
Principal

