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Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

Department of Electrical & Electronics Engineering

Circular

Date: 07/06/23

This is to inform that the RRCE Skill Lab and Department of EEE have planned to conduct 5 Days Skill Development Workshop with Hands-on Training in "Electric Vehicle Design" On 12th -16th June, 2023.

Interested students are requested to enroll their names to Dr. P Ebby Darney, HoD-EEE on or before 09th June 2023.Registration will be considered on first come first serve basis.

HoD-EEE

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

Email Id: hodee@rrce.org

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Sri. S. Jayabalan

Special Officer, RajaRajeswari Group of Institutions, Bengaluru

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CEO, RajaRajeswari Group of Institutions, Bengaluru

Dr. Gopalakrishna Nair

Rector, RajaRajeswari Group of

Institutions, Bengaluru

Chairman

Dr. Balakrishna R

Principal, RRCE

Organizing Secretary

Dr. P Ebby Darney,

Head of the Department,

Dept. of Electrical and Electronics Engineering RRCE

ORGANIZING COMMITTEE

Coordinators

- 1. Prof.Bharathi V
- 2. Prof. Avinash C M All Staff members of EEE Dept.

Address for communication

Coordinators

- 1. Prof. Bharathi V ((9008535199) bharathivijay08@gmail.com
- 2. Prof.Avinash C M (9740369481) avinash.rrce@gmail.com

Skill Development Workshop on **Electric Vehicle Design**

Department of Electrical and Electronics Engg. RajaRajeswari College of Engineering Kumbalagodu, Mysore road, Bengaluru-560074

Course Outcome:

To understand about basics of hybrid electric vehicle To understand about drives and control. Select battery, battery indication system for EV applications

Design battery charger for an EV



Skill Development Workshop Electric Vehicle Design

12th June 2023 to 16th June 2023 (10:00 am to 4:00 pm) (By Prof. Mahesh B Patil, IIT, Bombay)

Organized by Department of Electrical & Electronics **Engineering**



RAJARAJESWARI COLLEGE OF **ENGINEERING** (RRCE)

(Approved by AICTE, New Delhi) ACCREDITATED BY NAAC, 'A+' Grade and NBA (ECE, CSE), ISO 9001:2008

#14, RAMOHALLI CROSS, KUMBALAGODU MYSORE ROAD, BENGALURU-560074 KARNATAKA, INDIA,

Fax: +91-80-28437373. Ph: 080-28437124, 080-28437375, 080-65666769 Website: www.rrce.org

ABOUT THE INSTITUITION

Rajarajeswari College of Engineering (RRCE) was established in the year 2006 under the shelter of Moogambigai Charitable and Educational Trust (estd. 1992) with the sole object of establishing Institutions of higher education of exemplary stature in the state of Karnataka.

RRCE is approved by AICTE, New Delhi and is affiliated to Visvesvaraya Technological University (VTU), Belgaum, and Karnataka. The Institute offers six UG Engineering courses (Civil, Mechanical, Electrical & Electronics, Electronics & Communication, Computer Science & Engineering and Information Science & Engineering) and five PG courses Viz. M.Tech (Digital Electronics and communication, Thermal Engineering and Computer science & Engineering), MBA & MCA. RRCE has four R&D centers. All the Departments have qualified staff and well equipped laboratories with state of the art equipment. The college has library and information center with very good collection, computer centers and sports facilities along with other amenities. The college is located by the side of Bengaluru - Mysore road and is 18km from Bangalore City Railway Station.

ABOUT THE DEPARTMENT

The Department of Electrical & Electronics Engineering was established in the year 2006. The department is offering UG course in EEE. The department has experienced and well qualified senior Professors and dynamic faculty members. EEE department is highly dynamic in organizing various events like workshops, Technical seminars, expert lectures, FDPs and industrial visits etc for the benefit of staff and students. Department has well equipped laboratories.

OBJECTIVE OF THE COURSE

This course will be a first level course on electric vehicle. Students will be able to understand the operation of battery driven electric vehicle. The course will start with introduction section which will enable the students to understand the focus areas that come under the umbrella of electric vehicles. Then the course will start covering this focus areas one by one such as types of EVs and its Challenges, Energy Source Technologies, Battery Charging Technologies, vehicle dynamics etc. So that the grip of the subject will be strong and the knowledge acquired will be useable in real time applications.

The FDP will be held from 12th June 2023 to 16th June 2023 (10:00 am to 4:00 pm) at EEE CAED Lab, RRCE, Bengaluru-560074.

Participants:

Teachers who are handling Electrical Drives, Electrical Machines and Electric Vehicle are invited to participate in the Course.

Registration fees: Nil

Limited seats are available. On first come first serve basis.

PLEASE REGISTER IN ADVANCE.

Skill Development Workshop on Electric Vehicle Design

From 12th June 2023 to 16th June 2023 (10:00 am to 4:00 pm)

Department of Electrical & Electronics
Engineering
RajaRajeswari College of Engineering
Mysore road, Kumbalagodu
Bengaluru-560074
Ph: +91-80-28437124, +91-80-6566 6769

	RE	GIST	CRAT	ION	FORM
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Name

Designation

Organization

Address

Phone No.

Fax:

E-mail

Date:

Signature of the

Participant

Place:

Seal and Signature of the

Sponsoring Authority







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Department of Electrical & Electronics Engineering

5 DAYS SKILL DEVELOPMENT WORKSHOP ON "ELECTRIC VEHICLE DESIGN" FROM 12TH JUNE 2023 TO 16TH JUNE 2023

Program Schedule

Date	10.00 AM to 11.00 AM	11.00 to 11.30 AM	11.30 AM to 01.00 PM	1.00 to 2.00PM	2.00 PM to 4.00 PM
12/06/23	Session 1: Registration & Inauguration	Tea	Session 2: Fundamentals of EV	Lunch	Session 3: Benefits of Using EVs
13/06/23	Session 4: Energy Source Technologies	Tea	Session 5: Battery Charging Technologies- Vehicle to Grid	Lunch	Session 6: EV Subsystems and Configurations
14/06/23	Session 7: Introduction to vehicle dynamics and tractive effort	Tea	Session 8: Introduction to vehicle dynamics and tractive effort	Lunch	Session 9: Battery Charging Technologies- Grid to Vehicle
15/06/23	Session 10: Introduction to battery management system	Tea	Session 11: Storage technologies	Lunch	Session 12: Charging techniques
16/06/23	Session 13: Overview of types of EVs and its Challenges	Tea	Session 14: Charging techniques	Lunch	Session 15: Performance of EV

HoD-EEE

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Department of Electrical & Electronics Engineering

5 DAYS SKILL DEVELOPMENT WORKSHOP

"ELECTRIC VEHICLE DESIGN" FROM 12TH JUNE 2023 TO 16TH JUNE 2023

- 1. Type of Event: 5 Days Value added course (12th June 16th June 2023)
- 2. Title of Event: "Electric Vehicle Design"
- 3. Resource Person: Prof. Mahesh B Patil, IIT, Bombay.
- 4. Event Duration: 10.00 AM to 04.00 P.M, 12th June 16th June 2023
- 5. Organizing Committee: Dr.R.Balakrishna, Principal, RRCE, Dr. S Usha, Dean Research, HOD (CSE)
- 6. Target Participants: EEE students (100 Participants)
- 7. Topics covered:
 - Fundamentals of EV
 - Energy Source Technologies
 - Battery Charging Technologies- Grid to Vehicle
 - Overview of types of EVs and its Challenges
 - Introduction to vehicle dynamics and tractive effort



Professor & HOD

Dept. of Electrical & Electronics Engl Rajarajeswari College Of Engineering Bengalury-74

Principal

Principal RAJARAJESWARI COLLEGE OF ENGINEERING Ramohalli Cross, Bengaluru-74





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Department of Electrical & Electronics Engineering

5 DAYS SKILL DEVELOPMENT WORKSHOP

ON

"ELECTRIC VEHICLE DESIGN" FROM 12TH JUNE 2023 TO 16TH JUNE 2023

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Department of Electrical & Electronics Engineering

Circular

Date: 03/01/23

This is to inform that the RRCE Skill Lab and Department of EEE have planned to conduct 5 Days Skill Development Workshop with Hands-on Training in "Familiarization of MatLAB toolbox" On 09th -13th January, 2023.

Interested students are requested to enroll their names to Dr. P Ebby Darney, HoD-EEE on or before 06th January 2023.Registration will be considered on first come first serve basis.

HoD-EEE

Professor & HOD

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Department of Electrical & Electronics Engineering

5 Days Skill Development Workshop with Hands-on Training in

"Familiarization of MatLAB toolbox"
On
09th -13th January, 2023

Program Schedule

Date	10.00 AM to 11.00 AM	11.00 to 11.30 AM	11.30 AM to 01.00 PM	1.00 to 2.00PM	2.00 PM to 4.00 PM
09/01/23	Session 1: Registration & Inauguration	Tea	Session 2: Fundamentals of Matlab	Lunch	Session 3: Hands on Experience on components in Matlab
10/01/23	Session 4: Entering commands and creating variables.	Tea	Session 5: Introduction to toolboxes and technologies	Lunch	Session 6: Analyzing vectors and matrices.
11/01/23	Session 7: Working with data files.	Tea	Session 8: Writing programs with branching and loops.	Lunch	Session 9: Hands on training on M-File program
12/01/23	Session 10: Introduction to block- sets	Tea	Session 11: Data Processing and Visualization	Lunch	Session 12: Hands on Simulink- Creating simple circuits.
13/01/23	Session 13: Basic Parts of a Function M-File	Tea	Session 14: Hands-on- session on Converters	Lunch	Session 15: Participant- Performance Evaluation, Feedback and Valedictory Function

HoD-EEE

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Chief Patron

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Patrons

Sri. A.C.S. Arun Kumar, B.Tech (Hons)., LMISTE., MIET., (UK)., LMCSI.,

Vice-Chairman, RajaRajeswari Group of Institutions, Bengaluru

Dr. Vijayanand. S, M. Tech, Ph.D

Executive Director, RajaRajeswari Group of Institutions, Bengaluru

Sri. S. Jayabalan

Special Officer, RajaRajeswari Group of Institutions, Bengaluru

Sri. .Seetharam (Retd IAS Officer)

CEO, RajaRajeswari Group of Institutions, Bengaluru

Dr. Gopalakrishna Nair

Rector, RajaRajeswari Group of Institutions, Bengaluru

Chairman

Dr.R Balakrishna,

Principal, RRCE

Organizing Secretary

Dr. P Ebby Darney

Head of the Department,

Dept. of Electrical and Electronics Engineering RRCE

ORGANIZING COMMITTEE

Coordinators

- 1. Prof.Avinash C M
- Prof. Bharathi V All Staff members of EEE Dept.

Address for communication

Coordinators

- 1. Prof.Avinash C M (9740369481) avinash.rrce@gmail.com
- 2. Prof. Bharathi V ((9008535199) bharathivijay08@gmail.com

Skill Development workshop on Familiarization of Matlab toolbox

Department of Electrical and Electronics Engg. RajaRajeswari College of Engineering Kumbalagodu, Mysore road, Bengaluru-560074

Course Outcome:

- Primary objective of this program is to provide an exposure to the participants with the essentials of MATLAB and some of the toolboxes etc.
- Develop conceptual and fundamental concept of Machine Learning elements.
- Develop basic understanding of all key component of MATLAB.



5 Days Skill Development Workshop with Hands-on Training in "Familiarization of MatLAB toolbox"

> 09th -13th January, 2023 (10:00 am to 4:00 pm)

> > By

Prof. Anandraj, Dept of Mechatronics, KLE Technological University, Bangalore.

Organized by

Department of Electrical & Electronics Engineering



RAJARAJESWARI COLLEGE OF ENGINEERING (RRCE)

(Approved by AICTE, New Delhi)
ACCREDITATED BY NAAC, 'A' Grade
and NBA (EEE,ECE,ME,CSE),
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ABOUT THE DEPARTMENT

The Department of Electrical & Electronics Engineering was established in the year 2006. The department is offering UG course in EEE. The department has experienced and well qualified senior Professors and dynamic faculty members. EEE department is highly dynamic in organizing various events like workshops, Technical seminars, expert lectures, FDPs and industrial visits etc for the benefit of staff and students. Department has well equipped laboratories.

OBJECTIVE OF THE COURSE

The programme also intends to develop the knowledge of participants to familiarize the recent update in Matlab. To acquaint the participants about the powerful capability of MATLAB as a language of Technical computing for the modelling and simulation of various mechanical systems. ¬ To impart knowledge to the students as an end user such that they can enhance their soft skills to be able to cope up the technological changes and challenges taking place in the modern world. ¬ To increase their employability by further strengthening their problem solving skills by improving knowledge of mathematics and physics.

The Skill development workshop will be held from 09th January 2023 to 13th January 2023(10:00 am to 4:00 pm) at EEE CAED Lab, RRCE, Bengaluru-560074.

Participants:

Students of all streams who are interested in knowing the fundamentals of Matlab are invited to participate in the Course.

Registration fees: Nil

Limited seats are available. On first come first serve basis.

PLEASE REGISTER IN ADVANCE.

From

09th to 13th January 2023 (10:00 am to 4:00 pm)

Department of Electrical & Electronics
Engineering
RajaRajeswari College of Engineering
Mysore road, Kumbalagodu
Bengaluru-560074
Ph: +91-80-28437124, +91-80-6566 6769

REGISTRATION FORM

Name

Designation

Organization

Address

Phone No. :

Fax:

E-mail

Date:

Signature of the Participant

Place:

Seal and Signature of the Sponsoring Authority









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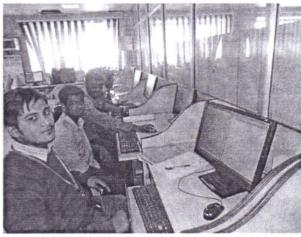
Department of Electrical & Electronics Engineering

5 Days Skill Development Workshop with Hands-on Training in "Familiarization of MatLAB toolbox"

09th -13th January, 2023

- 1. Type of Event: 5 Days Skill Development Workshop (09th Jan 13th Jan 2023)
- 2. Title of Event: "Familiarization of MatLAB toolbox"
- 3. Resource Person: Prof. Anandraj, Dept of Mechatronics, KLE Technological University, Bangalore.
- 4. Event Duration: 10.00 AM to 04.00 P.M, 09th Jan 13th Jan 2023
- 5. Organizing Committee: Dr.R.Balakrishna, Principal, RRCE, Dr. S Usha, Dean Research, HOD (CSE)
- 6. Target Participants: EEE students (100 Participants)
- 7. Topics covered:
 - Fundamentals of Matlab
 - Variables creation
 - Introduction to toolboxes and technologies
 - Strings and arrays
 - Introduction to block-sets





HoD-EEEEssor & HOD

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

Principal Principal RAJARAJESWARI

COLLEGE OF ENGINEERING

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





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Department of Electrical & Electronics Engineering

5 Days Skill Development Workshop withHands-on Training in "Familiarization of MatLAB toolbox" On

09th -13th January, 2023

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Department of Electrical & Electronics Engineering

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Department of Electrical & Electronics Engineering

Circular

Date: 07/07/22

This is to inform that the RRCE Skill Lab and Department of EEE have planned to conduct 5 Days Skill Development Workshop with Hands-on Training in "Fuzzy Logic toolbox" On 11th -15th July, 2022.

Interested students are requested to enroll their names to Dr. P Ebby Darney, HoD-EEE on or before 09th July 2022.Registration will be considered on first come first serve basis.

HoD-EEE

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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Executive Director, RajaRajeswari Group

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Sri. .Seetharam (Retd IAS Officer)

CEO, RajaRajeswari Group of Institutions, Bengaluru

Dr. Gopalakrishna Nair

Rector, RajaRajeswari Group of

Institutions, Bengaluru

Chairman

Dr.R Balakrishna,

Principal, RRCE

Organizing Secretary

Dr. P Ebby Darney

Head of the Department,

Dept. of Electrical and Electronics Engineering RRCE

ORGANIZING COMMITTEE

Coordinators

- 1. Prof.Avinash C M
- Prof. Bharathi V
 All Staff members of EEE Dept.

Address for communication

Coordinators

- 1. Prof.Avinash C M (9740369481) avinash.rrce@gmail.com
- 2. Prof. Bharathi V ((9008535199) bharathivijay08@gmail.com

Skill Development workshop on Fuzzy logic toolbox

Department of Electrical and Electronics Engg.
RajaRajeswari College of Engineering
Kumbalagodu, Mysore road, Bengaluru560074

Course Outcome:

- Will understand the increasing need for flexibility and adaptivity in computerized systems, and the application of fuzzy expert systems.
- Fuzzy logic expert systems often improve performance by allowing knowledge to generalize without requiring the knowledge engineer to anticipate all possible situations.
- Thus, for many types of applications, "soft computing" such as Fuzzy logic can incur lower overhead in terms of representing and engineering task knowledge.









5 Days Skill Development Workshop with Hands-on Training in "Fuzzy logic toolbox" On 11th -15th July, 2022 (10:00 am to 4:00 pm)

By

Dr. R Arul Jose, Associate Prof., Depart. of EEE, SCAD college of Engineering, Tamil Nadu.

Organized by

Department of Electrical & Electronics Engineering



RAJARAJESWARI COLLEGE OF ENGINEERING (RRCE)

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Fax: +91-80-28437373,

Ph: 080-28437124, 080-28437375, 080-65666769

Website: www.rrce.org

ABOUT THE INSTITUITION

Rajarajeswari College of Engineering (RRCE) was established in the year 2006 under the shelter of Moogambigai Charitable and Educational Trust (estd. 1992) with the sole object of establishing Institutions of higher education of exemplary stature in the state of Karnataka.

RRCE is approved by AICTE, New Delhi and is affiliated to Visvesvaraya Technological University (VTU), Belgaum, and Karnataka. The Institute offers six UG Engineering courses (Civil, Mechanical, Electrical & Electronics, Electronics & Communication, Computer Science & Engineering and Information Science & Engineering) and five PG courses Viz. M.Tech (Digital Electronics and communication, Thermal Engineering and Computer science & Engineering), MBA & MCA. RRCE has four R&D centers. All the Departments have qualified staff and well equipped laboratories with state of the art equipment. The college has library and information center with very good collection, computer centers and sports facilities along with other amenities. The college is located by the side of Bengaluru - Mysore road and is 18km from Bangalore City Railway Station.

ABOUT THE DEPARTMENT

The Department of Electrical & Electronics Engineering was established in the year 2006. The department is offering UG course in EEE. The department has experienced and well qualified senior Professors and dynamic faculty members. EEE department is highly dynamic in organizing various events like workshops, Technical seminars, expert lectures, FDPs and industrial visits etc for the benefit of staff and students. Department has well equipped laboratories.

OBJECTIVE OF THE COURSE

Fuzzy Logic ToolboxTM provides MATLAB® functions, apps, and a Simulink® block for analyzing, designing, and simulating systems based on fuzzy logic. The product guides you through the steps of designing fuzzy inference systems. Functions are provided for many common methods, including fuzzy clustering and adaptive neuro fuzzy learning.

The toolbox lets you model complex system behaviors using simple logic rules, and then implements these rules in a fuzzy inference system. You can use it as a stand-alone fuzzy inference engine. Alternatively, you can use fuzzy inference blocks in Simulink and simulate the fuzzy systems within a comprehensive model of the entire dynamic system.

The Skill development workshop will be held from 11th -15th July, 2022(10:00 am to 4:00 pm) at EEE CAED Lab, RRCE, Bengaluru-560074.

Participants:

Students who are interested in knowing the fundamentals of Fuzzy logic toolbox are invited to participate in the Course.

From 11th -15th July, 2022 (10:00 am to 4:00 pm)

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Bengaluru-560074
Ph: +91-80-28437124, +91-80-6566 6769

REGISTR	ATI	ON	FO	RM

Name

Designation

Organization

Address

Phone No. :

Fax:

E-mail

Date:

Signature of the

Participant

Place:

Seal and Signature of the Sponsoring Authority







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Department of Electrical & Electronics Engineering

5 Days Skill Development Workshop with Hands-on Training in "Fuzzy logic toolbox" On 11th -15th July, 2022

Program Schedule

Date	10.00 AM to 11.00 AM	11.00 to 11.30 AM	11.30 AM to 01.00 PM	1.00 to 2.00PM	2.00 PM to 4.00 PM
11/07/22	Session 1: Registration & Inauguration	Tea	Session 2: Introduction to Artificial Intelligence, Neural Networks and Fuzzy logic System.	Lunch	Session 3: Applications of Fuzzy Logic in Power System
12/07/22	Session 4: Introduction to toolboxes and technologies	Tea	Session 5: How to design a Fuzzy logic controller in MATLAB/SIMULINK	Lunch	Session 6: Hands on Fuzzy logic toolbox
13/07/22	Session 7: Fuzzy Logic Systems · Fuzzy Logic Techniques and Algorithms	Tea	Session 8: Designing logic and membership function	Lunch	Session 9: Introduction to block- sets
14/07/22	Session 10: Fuzzy Clustering Techniques, and Fuzzy Control theory.	Tea	Session 11: Building system with FL toolbox	Lunch	Session 12: Hands on Fuzzy logic toolbox
15/07/22	Session 13: Fuzzy Mathematical Modeling in Artificial Intelligence using Decision Making Methods.	Tea	Session 14: Case study.	Lunch	Session 15: Participant- Performance Evaluation.

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Department of Electrical & Electronics Engineering

5 Days Skill Development Workshop with Hands-on Training in "Fuzzy logic toolbox" On 11th -15th July, 2022

- 1. Type of Event: 5 Days Skill Development Workshop (11th -15th July, 2022)
- 2. Title of Event: "Fuzzy logic toolbox"
- 3. Resource Person: Dr. R Arul Jose, Associate Prof., Depart. of EEE, SCAD college of Engineering, Tamil Nadu.
- 4. Event Duration: 10.00 AM to 04.00 P.M, 11th -15th July, 2022
- 5. Organizing Committee: Dr. R.Balakrishna, Principal, RRCE, Dr. S Usha, Dean Research, HOD (CSE)
- 6. Target Participants: EEE students (100 Participants)
- 7. Topics covered:
 - Introduction to fuzzy logic & fundamentals
 - Designing logic and membership function
 - Building system with FL toolbox
 - Fuzzy logic working in Simulink
 - Case Study
 - 1- Water level controller
 - 2- Washing machine control





HoD-EEE Professor & HOD

Dept. of Electrical & Electronics Engg. Rajarajeswari College Of Engineering Principal
Principal
RAJARAJESWAR
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Department of Electrical & Electronics Engineering

5 Days Skill Development Workshop with Hands-on Training in "Fuzzy logic toolbox" On 11th -15th July, 2022

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