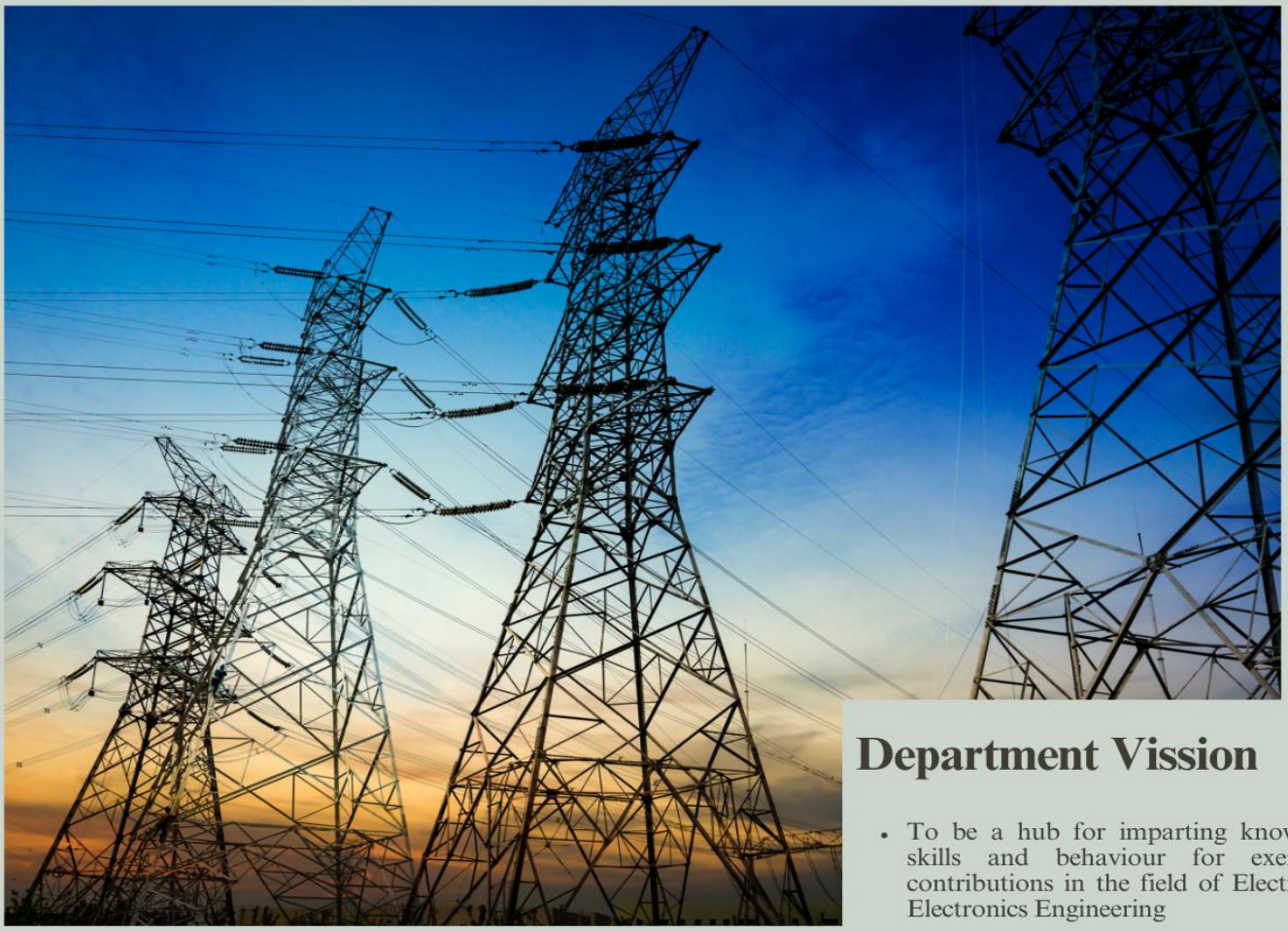
Volume - IX, Issue - 3 (2023-24 A.Y)

E-MINDS



DEPARTMENT OF EEE

Established in 2008, the Department of EEE has grown steadily, offering programs that cater to the evolving needs of the industry. The department began with a B. Tech program with an initial intake of 60 students in 2008, followed by the launch of an M. Tech program in Power Systems Control and Automation with 24 students in 2014.The department consists of qualified and dedicated faculty who serve as the key pillars supporting the department's growth and success in all aspects. Our curriculum and activities encompass key areas such as power systems, control systems, electrical machines, electromagnetic theory, and computer languages. They also integrate the latest advancements in rapidly growing fields like electric vehicles and renewable energy systems through honour and minor degree, which are essential for modern societal development and industrial progress

Department Vission

- To be a hub for imparting knowledge, skills and behaviour for exemplary contributions in the field of Electrical & Electronics Engineering

Department Mission

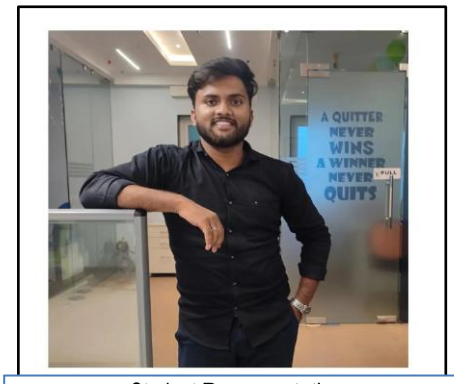
- M1: To impart technical education through the state-of-the-art infrastructural facilities, laboratories and instruction
- M2: To inculcate industry-oriented learning through industrial visits, internships, projects at industries, MoU's to make students technically skilled oriented
- M3: Creating conducive environment for higher education, employment and entrepreneurship throughquality education, professional skills and research
- M4: To promote societal environment among students by inculcating moral and ethical values

THE CREW

EDITORIAL MEMBERS

Chief Editor, Content Head
Dr. R.S.R. Krishnam Naidu,
Professor & HOD - EEE

Editor
Mr. A. Bala Raja Ram,
Asst., Professor



Student Representative
Mr. K. Uma Maheshwar,
IV-EEE

Student Representative
Mr. P. Sasi Vardhan,
III-EEE

Student Representative
Ms. G. Ramya,
II-EEE

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HOD Message:

It is a privilege and honour to lead the EEE department at this esteemed institution. Our field is at the heart of modern technological advancements, with a particular emphasis on the rapidly growing electric vehicle (EV) sector. This dynamic field encompasses core technologies like power systems, power electronics, electrical machines, control systems, and electromagnetic theory etc., all of which are critical to the development of efficient and sustainable transportation solutions.

To stay at the forefront of innovation, our departmental association, ADVAYA, organizes workshops, technical training, and expert guest lectures. These initiatives focus on emerging trends, including EV technologies, drone, IOT Technologies and aim to equip our students and faculty with the knowledge and skills needed to excel in this exciting domains.

Our department is committed to playing a pivotal role in shaping the future of electric mobility. By fostering research, development, and education in EV-related areas, we strive to create a sustainable and electrified transportation ecosystem.

Department Profile

Established in 2008, the Department of Electrical and Electronics Engineering (EEE) offers a range of programs, starting with a B.Tech program with an initial intake of 60 students in the same year. The department expanded its offerings to include a Diploma program in 2012 with a 60-student intake and an M.Tech (Power Systems Control and Automation) program in 2014 with a 24-student intake.

Our faculty is highly qualified, with 2 Ph.Ds and 12 M.Techs (4 of them are pursuing Ph.D's in reputed universities). They are actively engaged in research and have published or presented papers in esteemed national and international journals and conferences.

The department recognizes the crucial role electrical engineers play in the growth of medium and large-scale industries. With India experiencing rapid industrial growth, the demand for electrical engineers has skyrocketed in various sectors, including the power sector, private companies, PSUs, and government organizations. This translates to a wealth of exciting career opportunities for our graduates.

Department Vision

To be a hub for imparting knowledge, skills and behavior for exemplary contributions in the field of Electrical & Electronics Engineering

Department Mission

M1: To impart technical education through the state of the art infrastructural facilities, laboratories and instruction.

M2: To inculcate industry oriented learning through industrial visits, internships, projects at industries, MOUs, to make students technically skilled oriented.

M3: Creating conducive environment for higher education , employment and entrepreneurship through quality education ,professional skills and research.

M4: To promote societal commitment among students by inculcating moral and ethical values.

Program Educational Objectives

PEO1: Demonstrate the real-world engineering problem solving skills by applying the fundamental and conceptual engineering knowledge as a practicing Electrical and Electronics engineer or as a member/lead in a multidisciplinary project setting that utilize 21st century skills

PEO2: Provide research-based engineering solutions addressing the triple bottom line of environment and sustainability maintaining the professional standards, ethics and integrity

PEO3: Foster self-directed learning through their professional experience, technology advancements in their relevant field of interest and desiring graduates pursue advanced higher education leading to research

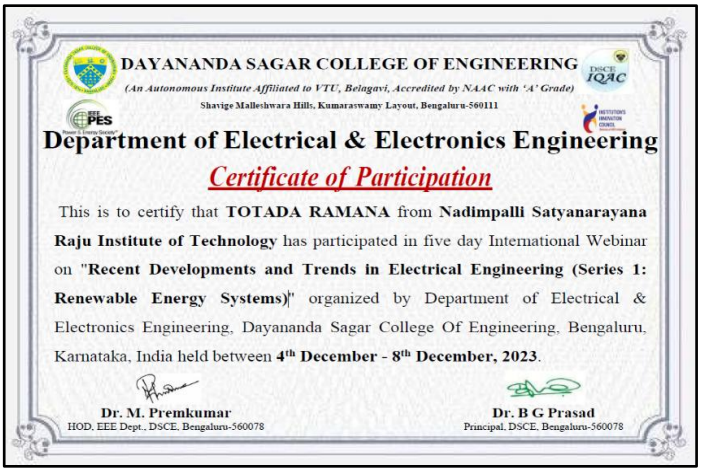
Dr. R. S. R. Krishnam Naidu,

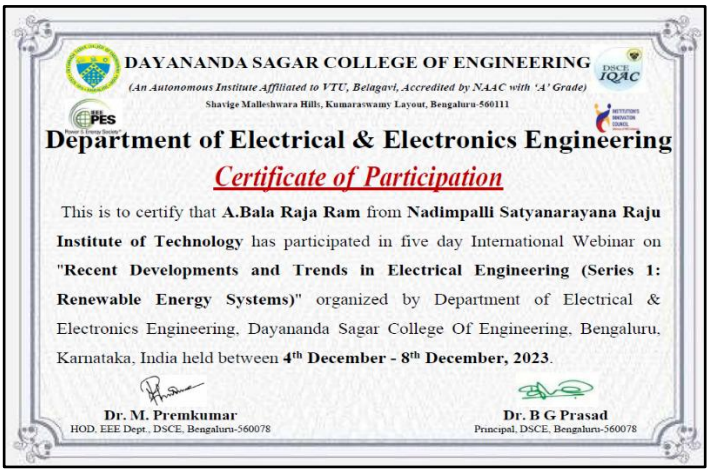
Professor & HOD – EEE

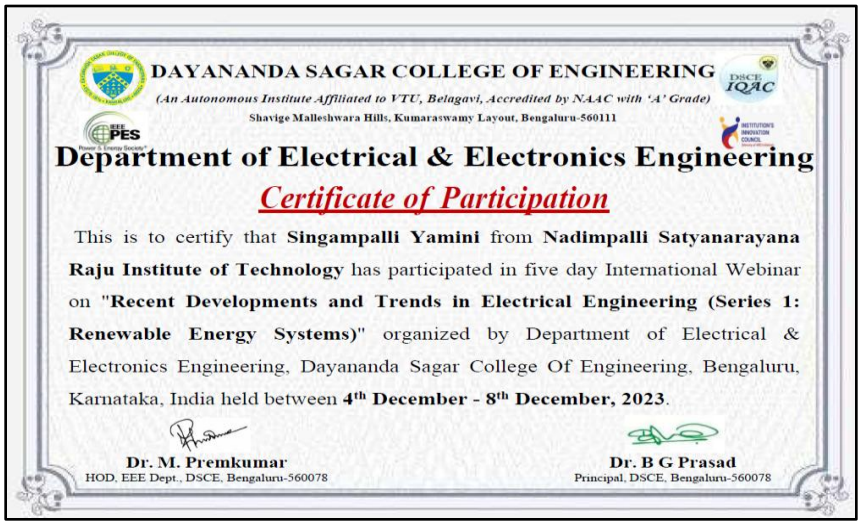
The following are the Activities and Achievements from the department of EEE during Dec to Feb, 2023-24:

S.No	Name of the Activity & Achievements	Organized by	Date of the Event	Page Numbers
1	Faculty certification 5-Day international webinar on Recent Developments and Trends in Electrical Engineering (Series 1: Renewable Energy Systems)	Department of EEE, Dayananda Sagar College of Engineering, Bengaluru	04-12-2023 to 08-12-2023	5
2	5-Day Training program on Modelling and simulation of EV Systems using MATLAB/Simulink	NSRIT in association with Skill Lync	02-01-2024 to 06-01-2024	6
3	Faculty Development Program on New Trends in Power Electronics for Microgrids and Electric Vehicles	LENDI Institute of Engineering and Technology	22-01-2024 to 27-01-2024	6-7
4	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP)	UGC-MMTC, Andhra University	22-01-2024 to 31-01-2024	7
5	Faculty Development Program certification on "Viksit Bharat 2047-Role of Engineering Faculty"	Rajiv Gandhi University of Knowledge Technologies	29-01-2024 to 02-02-2024	7-8
6	Student Project Exhibition contest certification	GMRIT	16-02-2024 to 17-02-2024	8-9
7	Participation Certificates in LIFT OFF, DRONE Workshop	ANITS	26-02-2024 to 27-02-2024	9-10

1. **Faculty certification 5-Day international webinar on Recent Developments and Trends in Electrical Engineering (Series 1: Renewable Energy Systems)**

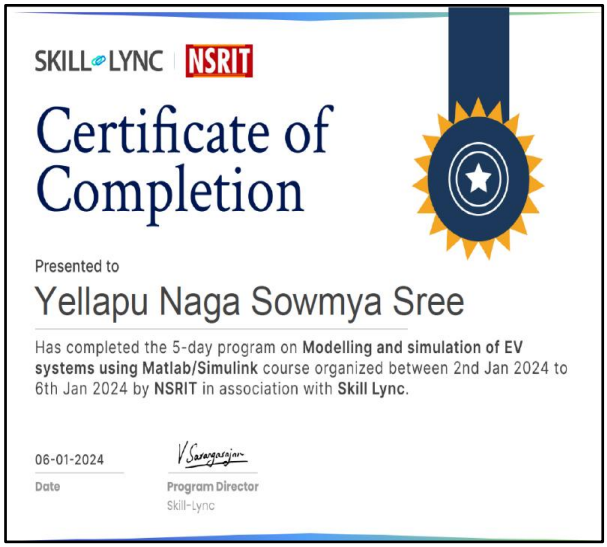

DAYANANDA SAGAR COLLEGE OF ENGINEERING
(An Autonomous Institute Affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560111
Department of Electrical & Electronics Engineering
Certificate of Participation
This is to certify that **TOTADA RAMANA** from **Nadimpalli Satyanarayana Raju Institute of Technology** has participated in five day International Webinar on **"Recent Developments and Trends in Electrical Engineering (Series 1: Renewable Energy Systems)"** organized by Department of Electrical & Electronics Engineering, Dayananda Sagar College Of Engineering, Bengaluru, Karnataka, India held between **4th December - 8th December, 2023**.
Dr. M. Premkumar
HOD, EEE Dept., DSCE, Bengaluru-560078
Dr. B G Prasad
Principal, DSCE, Bengaluru-560078


DAYANANDA SAGAR COLLEGE OF ENGINEERING
(An Autonomous Institute Affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560111
Department of Electrical & Electronics Engineering
Certificate of Participation
This is to certify that **A.Bala Raja Ram** from **Nadimpalli Satyanarayana Raju Institute of Technology** has participated in five day International Webinar on **"Recent Developments and Trends in Electrical Engineering (Series 1: Renewable Energy Systems)"** organized by Department of Electrical & Electronics Engineering, Dayananda Sagar College Of Engineering, Bengaluru, Karnataka, India held between **4th December - 8th December, 2023**.
Dr. M. Premkumar
HOD, EEE Dept., DSCE, Bengaluru-560078
Dr. B G Prasad
Principal, DSCE, Bengaluru-560078


DAYANANDA SAGAR COLLEGE OF ENGINEERING
(An Autonomous Institute Affiliated to VTU, Belagavi, Accredited by NAAC with 'A' Grade)
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560111
Department of Electrical & Electronics Engineering
Certificate of Participation
This is to certify that **Singampalli Yamini** from **Nadimpalli Satyanarayana Raju Institute of Technology** has participated in five day International Webinar on **"Recent Developments and Trends in Electrical Engineering (Series 1: Renewable Energy Systems)"** organized by Department of Electrical & Electronics Engineering, Dayananda Sagar College Of Engineering, Bengaluru, Karnataka, India held between **4th December - 8th December, 2023**.
Dr. M. Premkumar
HOD, EEE Dept., DSCE, Bengaluru-560078
Dr. B G Prasad
Principal, DSCE, Bengaluru-560078

Our Faculty **Mr.A.Bala Raja Ram**, **Mrs.S.Yamini** and **Mr.T.Ramana** has participated in **5-Day International Webinar on "Recent Developments and Trends in Electrical Engineering (Series 1: Renewable Energy Systems)"** organized by Department of EEE, Dayananda Sagar College of Engineering, Bengaluru. This webinar on "Recent Developments and Trends in Electrical Engineering (Series 1: Renewable Energy Systems)" could cover a wide range of topics in the evolving field of electrical engineering, focusing on renewable energy technologies. This series could be expanded in future webinars by diving deeper into specific renewable energy technologies or challenges in electrical engineering.

2. **5-Day Training program on Modelling and simulation of EV Systems using MATLAB/Simulink**


SKILL LYNC | NSRIT

Certificate of Completion

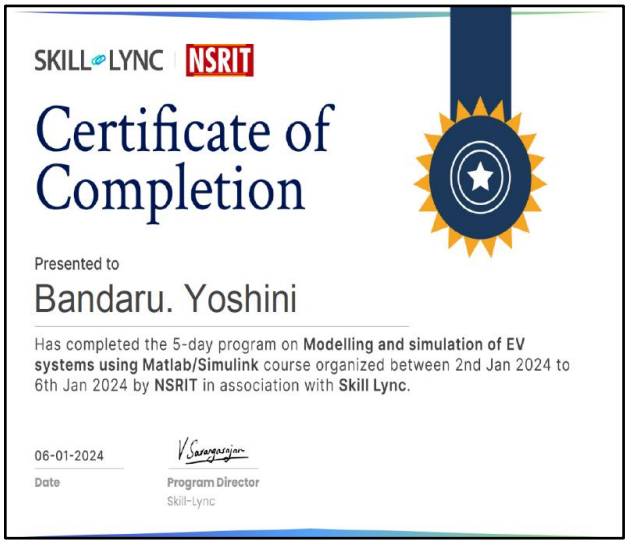
Presented to

Yellapu Naga Sowmya Sree

Has completed the 5-day program on **Modelling and simulation of EV systems using Matlab/Simulink** course organized between 2nd Jan 2024 to 6th Jan 2024 by **NSRIT** in association with **Skill Lync**.

06-01-2024
Date

V Saravanan
Program Director
Skill-Lync


SKILL LYNC | NSRIT

Certificate of Completion

Presented to

Bandaru. Yoshini

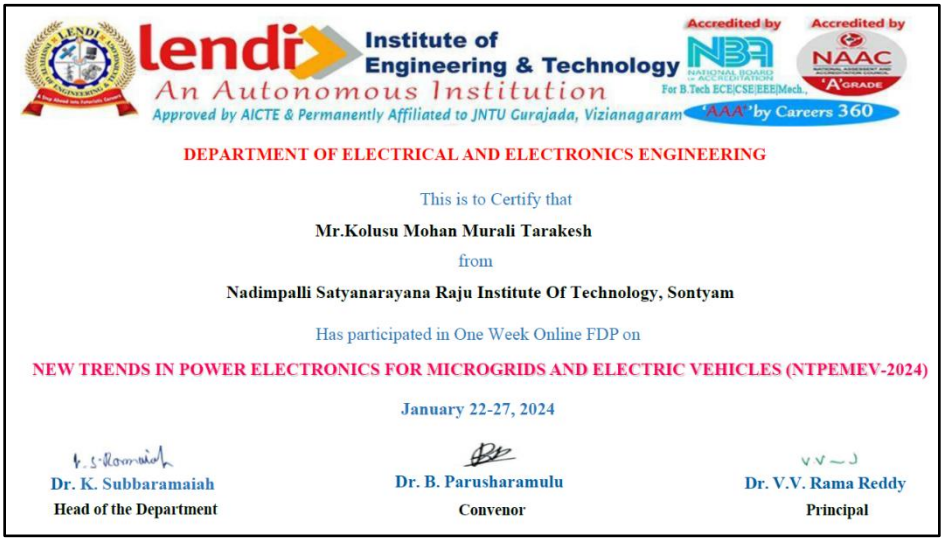
Has completed the 5-day program on **Modelling and simulation of EV systems using Matlab/Simulink** course organized between 2nd Jan 2024 to 6th Jan 2024 by **NSRIT** in association with **Skill Lync**.

06-01-2024
Date

V Saravanan
Program Director
Skill-Lync

Our students completed the "**5-Day program on Modelling and simulation of EV Systems using MATLAB/Simulink**" course organized between **2nd jan 2024** to **06thjan 2024** by NSRIT in association with Skill Lync.This training program aims to provide participants with the knowledge and skills necessary to model and simulate **Electric Vehicle (EV) systems** using **MATLAB/Simulink**. It covers key concepts such as battery modeling, motor control, vehicle dynamics, power electronics, and regenerative braking, all within a hands-on and interactive framework.

3. **Faculty Development Program on New Trends in Power Electronics for Microgrids and Electric Vehicles**


Lendi Institute of Engineering & Technology
An Autonomous Institution
Approved by AICTE & Permanently Affiliated to JNTU Gurajada, Vizianagaram

Accredited by NBA For B.Tech ECE|CSE|EEE|Mech.,
Accredited by NAAC A GRADE
'AAA' by Careers 360

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

This is to Certify that

Mr.Kolusu Mohan Murali Tarakesh

from

Nadimpalli Satyanarayana Raju Institute Of Technology, Sontyam

Has participated in One Week Online FDP on

NEW TRENDS IN POWER ELECTRONICS FOR MICROGRIDS AND ELECTRIC VEHICLES (NTPEMEV-2024)

January 22-27, 2024

Dr. K. Subbaramaiah
Head of the Department

Dr. B. Parusharamulu
Convenor

Dr. V.V. Rama Reddy
Principal

Our faculty **Mr.K.M.M.Tarakesh**, **Mr.A.Bala Raja Ram** has participated in one week FDP on "**New Trends in Power Electronics for Microgrids and Electric Vehicles"** organized by LENDI Institute of Engineering and Technology. The field of **power electronics** is evolving rapidly to support the growing demand for **microgrids** and **electric vehicles (EVs)**. These emerging technologies are critical for renewable energy integration, energy efficiency, and sustainable transportation.

4. **NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP)**

Our faculty **Mr.K.M.M.Tarakesh** has completed the "**NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)"** Organized by UGC-MMTC, Andhra University, Visakhapatnam. This program is designed to ensure that teachers are not just familiar with the new policy framework but are also empowered to actively contribute to its successful implementation across the country.


MMC-002-2024-JAN-B-00799

सत्यमेव जयते
Government of India

MALAVIYA MISSION
TEACHER
TRAINING PROGRAMME

ज्ञान-विज्ञान विमुक्तये
University Grants Commission

CERTIFICATE OF PARTICIPATION

NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that KOLUSU MOHAN MURALI TARAKESH, Assistant Professor from N S Raju Institute of Technology(Autonomous), Visakhapatnam has completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC - MMTTC, Andhra University, Visakhapatnam from 22-01-2024 to 31-01-2024

Director (MM-TTC)

5. **Faculty Development Program certification on "Viksit Bharat 2047- Role of Engineering Faculty"**

Our faculty **Dr. R.S.R. Krishnam Naidu** ,**Mr, K,M,M,Tarakesh**, **Mrs. S .Chaitanya**, **Ms. L. Advila**, Mr. T. Ramana, **Dr. R. Amaleswari**, **Mrs. S. Yamini**, **Mr. P. Mahesh**, **Mr. K.S. Ramanjaneyulu**, **Mr. A. Bala Raja Ram** has participated in an online faculty development program **" Viksit Bharat 2047-Role of Engineering Faculty"** organized by Rajiv Gandhi University of Knowledge Technologies, IIIT RK Valley, RK Valley Campus, Kadapa District, Andhra Pradesh. The online faculty development program titled **"Viksit Bharat 2047: Role of Engineering Faculty"** likely focuses on enhancing the

capabilities of engineering educators in shaping India's future, in alignment with the country's vision for 2047 — the centennial year of India's independence. By 2047, India aims to become a fully developed nation, and engineering faculties play a crucial role in driving technological innovation, skill development, and socio-economic transformation.

CERTIFICATE OF PARTICIPATION

This is to Certify that

Dr. R.S.R KRISHNAM NAIDU

working as Associate Professor in N S RAJU INSTITUTE OF TECHNOLOGY has participated in an online Faculty Development Program "Viksit Bharat 2047- Role of Engineering Faculty" from 29-01-2024 to 02-02-2024.

ORGANISED BY

Rajiv Gandhi University of Knowledge Technologies, IIIT RK Valley, RK Valley Campus, Kadapa District, Andhra Pradesh-516330

Anantha Lakshmi Institute of Technology & Sciences, Near SK University, Itikalapalli(V) 515721, Ananthapuramu District, Andhra Pradesh

Dr. M.S.G. Smitha, Convenor-FDP, President-IIC, ALTS
Dr. Rayudu Peyyala, Convenor-FDP, Professsor & Dean Academics, ALTS
Dr. N. Ramamurthy, Patron-FDP, Professor & Principal, ALTS
Prof. AVSS. Kumaraswami Gupta, Patron-FDP, Director RGUKT (IIIT RK Valley), AP

6. Student Project Exhibition contest certification

Our Students had participated in project excibition contest organized by GMR Institute of Technology During **Feb 16 & 17, 2024** and won **2nd prize** in **STEPCONE-2024** and also participated in the event **Electrical ladder**.

GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV

STEPCONE 2024

CERTIFICATE
OF MERIT

This is to certify that

S.MANIKANTA SWAMY

from NSRIT

has participated and secured Second prize in STEPCONE-2024 in the event project Exhibition Contest organized by GMR Institute of Technology during Feb 16 & 17, 2024.

CONVENOR PRINCIPAL

GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV

STEPCONE 2024

CERTIFICATE
OF PARTICIPATION

This is to certify that

S. POORNA CHANDRA RAO

from N.S.R Institute of Technology

has participated in STEPCONE-2024 in the event Project Exhibition Contest organized by GMR Institute of Technology during Feb 16-17, 2024.

CONVENOR PRINCIPAL


GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV
GMRIT
STEPCONE 2024
CERTIFICATE
OF MERIT
This is to certify that
CH. MOHAN VASU KIRAN
from NSRIT
has participated and secured Second prize in STEPCONE-2024 in the event
project Exhibition Contest organized by GMR Institute of Technology during Feb 16 & 17, 2024.
CONVENOR
PRINCIPAL


GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV
GMRIT
STEPCONE 2024
CERTIFICATE
OF PARTICIPATION
This is to certify that
N. HIMA KIRAN
from Nadimpalli Satyanarayana Raju Institute of Technology
has participated in STEPCONE-2024 in the event Electrical Ladder
organized by GMR Institute of Technology during Feb 16-17, 2024.
CONVENOR
PRINCIPAL


GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV
GMRIT
STEPCONE 2024
CERTIFICATE
OF PARTICIPATION
This is to certify that
K. BHASKAR RAO
from N.S.R. Institute of Technology
has participated in STEPCONE-2024 in the event Project Exhibition Contest
organized by GMR Institute of Technology during Feb 16-17, 2024.
CONVENOR
PRINCIPAL

7. **Participation Certificates in LIFT OFF, DRONE Workshop**

Rapid advancements in vehicle technology are propelling unmanned vehicles and drones into a new era. In this view, LIFT OFF and Drone Workshops are pivotal in fostering innovation, technological advancement, and skill development in the rapidly expanding field of unmanned aerial vehicles (UAVs) or drones. **P. Krishna Veni** from II – EEE , has successfully completed and earned a certificate in "**LIFT OFF, DRONE Workshop"** organized by Anil Neerukonda Institute of Technology and Sciences during **26th Feb 2024** to **27th Feb 2024** by hands on experience with activities like Drone assembly, Programming

and Flight assembly which leads to technical expertise, and software proficiency, heading to career opportunities in various sectors.

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (A)

ANITS

Certificate of Completion

Congratulations, PILLA.KRISHNA VENI

LIFT OFF, DRONE WORKSHOP

Workshop Duration: 2 Days (February 26-27, 2024)

This certificate is awarded to the participant for their active participation and successful completion of the Lift-Off Drone Workshop. The participant demonstrated exceptional dedication and enthusiasm in mastering the fundamentals of UAVs and UAS. Their engagement in hands-on activities, including Drone Assembly, Programming and Flight Simulation, reflects a commendable commitment to learning and exploration.

Piyush Jha

CEO, SPACE CHASE

Certificate ID: **22NU1A0233**