

5.1.3 - The following Capacity Development and Skill Enhancement activities are organized for improving students' capabilities during the Year 2022-2023

Soft Skills ,Language and Communication Skills

S.No	Name of the capability enhancement scheme	Date of implementation	Number of students Enrolled	Agencies involved
1	EXPLORING THE BOUNDARIES OF INTRA AND INTERPERSONAL COMMUNICATION 5 DAY WORKSHOP	10-04-23	250	BASIC SCIENCE AND HUMANITIES DEPARTMENT-NSRIT

Life Skills(Yoga,Physical Fitness)

S.No	Name of the capability enhancement scheme	Date of implementation	Number of students Enrolled	Agencies involved
1	NATIONAL YOGA DAY	21-06-22	92	NSRIT , NSS Unit

Awareness of Trends in technology

S.No	Name of the capability enhancement scheme	Date of implementation	Number of students Enrolled	Agencies involved
1	MASSIVE OPEN ONLINE COURSES	Jul-22	59	ONLINE PLATFORM (NPTEL , BOARD INFINITY , SPRING BOARD ETC )
2	MASSIVE OPEN ONLINE COURSES	25-07-22	32	ONLINE PLATFORM (NPTEL , BOARD INFINITY , INTERNSHALA...ETC. )
3	CRACKING HACKATHONS AND IDEATHONS	27-07-22	47	NSRIT -CSI/ACM STUDENT CHAPTERS
4	TECHNICAL PAPER WRITING	30-08-22	120	DR.LAXMI NARYANA THALLURI,ASSOCIATE PROFESSOR, DEPARTMENT OF ECE,ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAWADA, AP, INDIA
5	GUEST LECTURE ON ("DESIGN AND TESTING OF CONVERTERS FOR RENEWABLE ENERGY SYSTEMS")	17-09-22	60	NSRIT,EEE DEPARTMENT



Director

N.S. Raju Institute of Technology (A)  
Sontyam, V.Lakhapatnam-531173

6	"RECENT TRENDS IN DESIGN AND CONTROL OF ELECTRIC VEHICLES"	21-10-22	35	NSRIT,EEE DEPARTMENT
7	WORKSHOP ON ("2 DAY WORKSHOP ON DRONE TECHNOLOGY – HANDS ON EXPERIENCE")	03-11-22	89	YAMINI INFINITY DRONE,VISAKHAPATNAM
8	MOOCS	19-11-22	67	ONLINE PLATFORM COURSE ERA, INFOSYS SPRING BOARD,INTERNSHALA...ETC.)
9	WORKSHOP ON ("3 DAY HYBRID WORKSHOP ON EV TECHNOLOGY – HANDS ON EXPERIENCE")	21-12-22	132	VIHAAN ELECTRIX
10	PEN TO PAPER :WRITING RESEARCH	04-02-23	144	NSRIT -CSI/ACM STUDENT CHAPTERS
11	TECHSPARDHA 2023	03-03-2023 to 04-03-2023	250	NSRIT
12	IOT WORKSHOP WITH ARDUINO	12-09-2022 to 14-09-2022	100	TECK TEAM SOLUTIONS
13	WORKSHOP ON ("APPLICATIONS OF AURDINO AND ESP-32 IN MULTI-DISPLINARY ENGINEERING")	15-03-2023 to 17-03-23	90	Tierra automation
14	WORK SHOP ON CYBER SECURITY	27,28-01-23	136	NSRIT -CSI/ACM STUDENT CHAPTERS

  
18/11/2024

**DIRECTOR**

Director

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Sontyam, Vi, akhapatnam-531173

Estd. 2008.

**NSRIT**

**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

**(AUTONOMOUS)**

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**Title: Exploring the Boundaries of Intra and Interpersonal Communication Workshop**

Date: 15/04/2023

Location: NSRIT

Organized by Basic Science and Humanities by the Department of English.

"Exploring the Boundaries of Intra and Interpersonal Communication" workshop was held from 10/04/2023 to 14/04/2023 in the seminar Hall block – I & II. This workshop aimed to provide 1<sup>st</sup> year students of CE, EEE, MECH, ECE, CSE, CSM and CSD with a deeper understanding of the complexities of communication within themselves (intrapersonal) and with others (interpersonal), to enhance B.Tech first years on various backgrounds to enhance their communication skills..

Welcome and Introduction:

The workshop began with a warm welcome and an overview of the day's agenda by the MoC Dr.M.Prasanthi and Mrs. M. Rama Chaitanya about the resource person who is an exuberant leader with good intra and interpersonal skills.

Mr Usha Sai Kiran is a doctoral scholar of Dr. A. Rama Naga Hanuman in English from Andhra University Vishakhapatnam. Besides, he is working as a guest faculty in English at the College of Engineering and the University. Kiran was awarded a gold medal for topping MA English ( Post – Graduation) at Andhra University and another gold medal for topping his bachelor's degree. Apart from his excellent track record in Literature and language since school days, he is also a creative writer and has been actively contributing as an editor for several creative and critical writings. His creative work can be found in the following blog: <https://theushakiran.wordpress.com>

Intrapersonal Communication:

In the first session, participants delved into intrapersonal communication, emphasizing self-awareness, self-talk, and emotional intelligence.

Activities included journaling, self-reflection exercises, and discussions on self-perception.

Interpersonal Communication:

The second session focused on interpersonal communication, highlighting active listening, empathy, and effective feedback.

Participants engaged in group discussions, role-play scenarios, and communication games to practice these skills.

#### 8 Breakout Sessions:

Participants were divided into smaller groups to share personal experiences, challenges, and successes in both intra and interpersonal communication along with group activity. Each class was given a complete half day activity by the resource person making the workshop meaningful.

Facilitators encouraged open and honest dialogue within these groups.

#### Q&A and Closing:

The workshop concluded with a Q&A session, allowing participants to seek clarifications and share their insights.

Organizer provided closing remarks and encouraged continued learning and practice.

#### Key Takeaways:

Participants gained a deeper understanding of themselves and their communication styles through intrapersonal exploration.

Enhanced interpersonal communication skills, including active listening and empathy, were emphasized.

The importance of setting and respecting boundaries in communication was highlighted.

Practical tools and techniques for improving communication were shared, giving participants actionable strategies for daily life.

#### Feedback:

Participants praised the workshop for its interactive and engaging format. They particularly appreciated the opportunity to practice and apply what they learned in real-life scenarios. Many participants expressed a desire for follow-up sessions or advanced workshops on the topic.

#### Conclusion:

The "Exploring the Boundaries of Intra and Interpersonal Communication" workshop proved to be a valuable experience for all participants, equipping them with essential skills for effective and meaningful communication. The event was a success, and there is potential for future workshops and seminars on related topics to further enhance communication abilities and brought together participants from various backgrounds to enhance their communication skills.

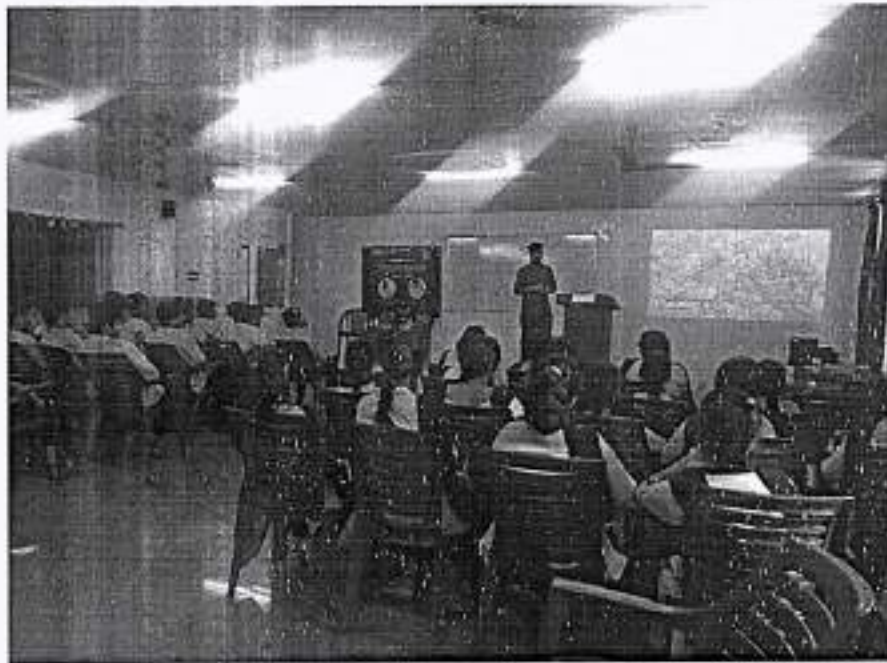
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Coordinator:

HOD:

Director Signature:

Dt: 29<sup>th</sup> August 2022

A Report of "NATIONAL SPORTS DAY"

**National Sports Day 2022: Nation remembers Major Dhyan Chand on 117th birth anniversary.**

"Talent wins games, but team-work and intelligence wins championships". Sports day is a platform to showcase the talent and efforts put in by the students to make it a successful event. The winner of three Olympic gold medals in the field hockey, Indian hockey player Dhyan Chand was undoubtedly one of the best sportsmen and he was a part of the highly talented Indian hockey player during his era. With his numerous talents in field hockey, he was called "The Wizard". He was born on 29<sup>th</sup> August 1905. The birth day (29<sup>th</sup> August) was observed as National Sports Day.

Physical Director Mr. Ch.Dilleswararao and R.Eswararao have organized national sports day event in NSRIT. Honourable Secretary and Principal of the college have attended the event and the guests were highly pleased at performance of the students. The programme began with the welcome ceremony by lightening lamp and offering tribute to the legendary Indian hockey player Major Dhyan Chand by Principal and Director **Respected Dr. J. Paja Murgadoss garu** and Secretary **Dr.N.Prasada Raju**, followed by brief introductory biography of him by Mr.Ch.Dilleswararao and R.Eswararao Physical Director.

**National Sports Day Theme- 29<sup>th</sup> August 2022:-**

National Sports Day 2022 will be observed on Monday, 29 August. Many countries have a national holiday on this day. The day is observed across the globe to honour the athletes, national sports teams, and sports traditions that have earned the country glory and respect. In India, National Sports Day is observed on 29 August every year because it is the birth anniversary of Major Dhyan Chand, India's most celebrated hockey player. On this day, we celebrate his achievements and victories.

On National Sports Day 2022, we will also celebrate other athletes and their achievements. It is a day to raise awareness about physical activity, sports, and overall health. People in India will get together and celebrate National Sports Day 2022 on 29 August. We also laud the hard work and support of coaches towards the athletes on this day.



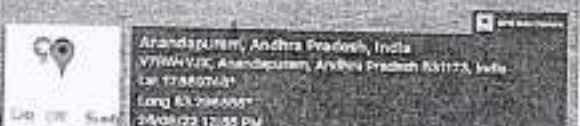
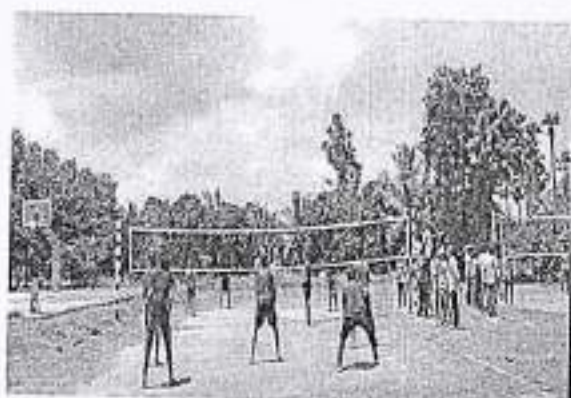
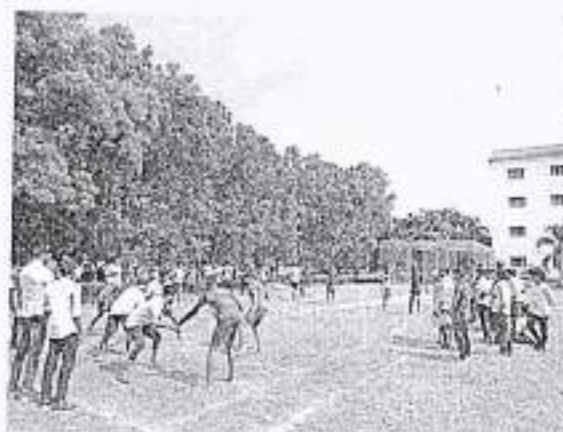
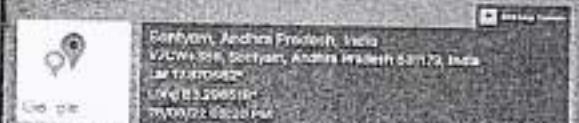
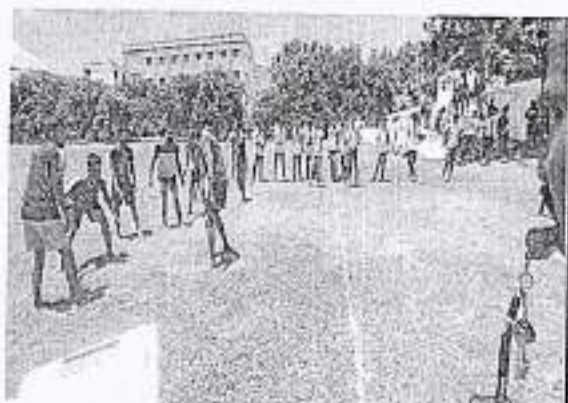
**INTERNATIONAL OLYMPIC DAY 2022: THEME**

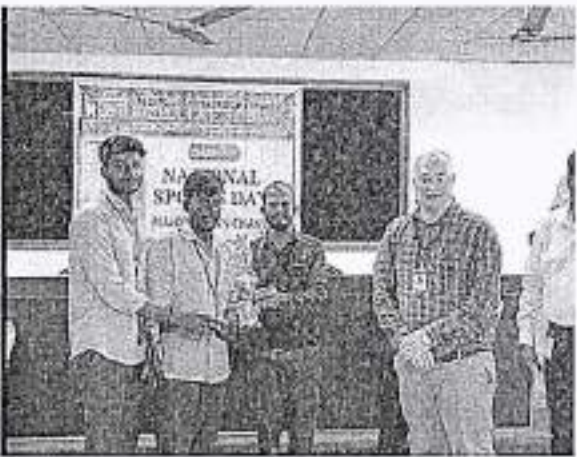
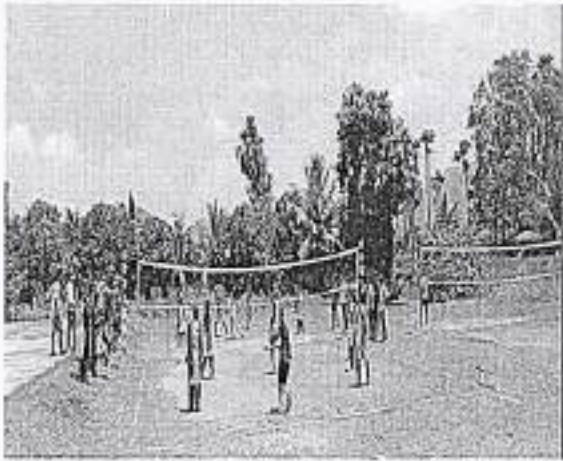
This year, the theme for the International Olympic Day is "Together for a Peaceful World." The theme represents the ability of sports to bring the world together and diminish the differences.

Sports event Participation list:-

S.NO	EVENT NAME	EACH EVENT PARTICIPATION TEAM
1	THROW BALL girls	6
2	KHO-KHO girls	6
3	KABADDI boys	18
4	KHO-KHO boys	8
5	BASKET BALL boys	4
6	VOLLEY BALL boys	16
TOTAL		58

S.NO	EVENT NAME	BRANCH	WINNER TEAM	BRANCH	RUNNER TEAM
1	THROW BALL girls	CSE	D.Geethika	ECE	B.Anusha reddy
2	KHO-KHO girls	ECE	B.Anusha reddy	EEE	A.Aswini
3	KABADDI boys	CIVIL	K. Bhaskar rao	MBA	S.Kanakaraju
4	KHO-KHO boys	MECH	L. Satti babu	CIVIL	K. Bhaskar rao
5	BASKET BALL boys	MECH	U. Pavan Kumar	CSE	S.Jayanth
6	VOLLEY BALL boys	MECH	G. Uday kiran	EEE	A. Narendra varma





#### THROW BALL WINNER GIRLS-CSE

S.NO	STUDENT NAME	ROLL NUMBER
1	D.GEETHIKA	20NU1A0529
2	K.SANJUNA	20NU1A0541
3	M.HEMA SRI	20NU1A0524
4	K.SAHITHI	20NU1A0546
5	NANDANA	21NU1A4210
6	YESHSWANI	21NU1A4226
7	NOAR JAHAN	21NU1A4228
8	HEMA SRI	21NU1A4207
9	SRI JANEESHA	21NU1A4433

#### THROW BALL RUNNER GIRLS-ECE

S.NO	STUDENT NAME	ROLL NUMBER
1	B.ANUSHA REDDY	20NU1A0413
2	K.KALYANI	20NU1A0455
3	G.BHOOINIKA	21NU5A0407
4	B.YAMINI	21NU5A0404
5	M.DHARANI SREE	20NU1A0472
6	R.NAVYA	20NU1A0498
7	Y.DEEPIKA	21NU5A0419

## KHO-KHO WINNER GIRLS-ECE

S.NO	STUDENT NAME	ROLL NUMBER
1	B.ANUSHA REDDY	20NU1A0413
2	K.KALYANI	20NU1A0455
3	K.VIJAYA LAKSHMI	20NU1A0460
4	G.BHOOMIKA	21NU5A0407
5	B.YAMINI	21NU5A0404
6	M.DHARANI SREE	20NU1A0472
7	R.HARIKA	20NU1A0496
8	R.NAVYA	20NU1A0498
9	Y.DEEPIK	21NU5A0419

## KHO-KHO RUNNER GIRLS-EEE

S.NO	STUDENT NAME	ROLL NUMBER
1	A.ASWINI	20NU1A0205
2	S.VASANTHI	20NU1A0225
3	P.YEANI BABY	20NU1A0224
4	G.DIVYA	20NU1A0213
5	A.BIVYA	20NU1A0201
6	Y.NAGA SOWRNYA SREE	20NU1A0227
7	K.ANUSHA	20NU1A0212
8	M.GAYATRI	21NU1A0231
9	K.ASHWINI	21NU1A0226
10	P.RADHIKA	21NU1A0242
11	P.GOWTHAMI	21NU1A0239

## BASKET BALL WINNER-MECH

S.NO	STUDENT NAME	ROLL NUMBER
1	U.PAVAN KUMAR	20NU5A0383
2	T.SANDEEP	20NU5A0382
3	S.LOKESH	20NU5A0380
4	D.B.V.KISHORE	20NU5A0325
5	G.VIVEK	20NU5A0332
6	P.BHARATH	21NU1A0120
7	CHANDRA SHAKER	21NU1A0205

## BASKET BALL RUNNER-CSE

S.NO	STUDENT NAME	ROLL NUMBER
1	S.JAYANTH	21NU5A0517
2	N.TEJERDRA	21NU5A0513
3	RG.PHANINDRA	21NU5A4224
4	G.SIDDERTHA	21NU5A0516
5	ASHWIN	21NU5A4228
6	RAVI TEJA	21NU5A0568
7	MANOJE	21NU5A0572

**KHO-KHO WINNER-MECH**

S.NO	STUDENT NAME	ROLL NUMBER
1	L.SATTI BABU	20NU5A0349
2	P.YERRI NAIDU	20NU5A0366
3	A.HEMANTH	20NU5A0304
4	P.HARISH	20NU5A0369
5	G.DILEEP KUMAR	19521A0302
6	B.NITISH	20NU5A0308
7	A.DALI NAIDU	20NU5A0306
8	M.JAGADEESH	20NU5A0353
9	D.BALA VENKATA KISHOR	20NU5A0325
10	V.MANI KUMAR	20NU1A0349
11	P.NAGARAJU	20NU5A0370

**KHO-KHO RUNNER- CIVIL**

S.NO	STUDENT NAME	ROLL NUMBER
1	K.BHASKAR	20NU5A0108
2	B.V.RAMANA	19NU1A0101
3	G.SAI KUMAR	20NU5A0105
4	K.SUNIL	20NU5A0109
5	K.MURALI	19NU1A0105
6	K.BHASKER RAO	20NU5A0107
7	D.MURALI	20NU5A0103
8	V.DURGA PRASAD	20NU5A0125
9	S.ANAND	20NU5A0120
10	CH.SARATH KUMAR	21NU1A0107
11	R.RAKESH	21NU1A0116

**VOLLEY BALL WINNER-MECH**

S.NO	STUDENT NAME	ROLL NUMBER
1	G.UDAY KIRAM	20NU5A0336
2	K.CHANDU	21NU1A0325
3	K.JAGADEESH	21NU1A0327
4	M.DILEEP	21NU1A0329
5	A.LAXMAN	20NU5A0305
6	G.RAVI TEJA	20NU5A0328
7	A.HEMANTH	20NU5A0304
8	B.MAHESH	21NU1A0309

**VOLLEY BALL RUNNER-EEE**

S.NO	STUDENT NAME	ROLL NUMBER
1	A.NARENDRA VARMA	20NU5A0202
2	B.VIJAY KUMAR	20NU5A0205
3	M.GANESH KUMAR	20NU5A0213
4	K.PRASAD	19NU1A0205
5	D.MOULI	20NU5A0208
6	K.UMA MAHESWARAO	20NU1A0219
7	N.RAMESH	20NU1A0222
8	B.PAVAN KUMAR	20NU5A0203





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**Report on**

**INTERNATIONAL DAY OF YOGA**

**On 21<sup>st</sup> June, 2022**

**International Yoga Day:**

Yoga refers to the act of dedicating one's consciousness to the inner soul, where one focuses on bringing peace between the mind and the body. The word 'Yoga' is derived from the two Sanskrit words 'Yuj' and 'Yujir'. In Vedas, they have the meanings 'to unite', 'to join together' or 'connection'. The word yoga means bringing peace and harmony to one by the act of focusing. According to Patanjala, Journal of Historical and Cultural Research, yoga is a technique to keep oneself away from disturbance and away from distractions.

**History, Development And Origin:**

The origin of yoga is traced back thousands of years ago when no religion or religious beliefs were inherited by humans. In the Vedas, the god Shiva is portrayed as the first yogi or Adiyogi, and the first Guru or Adi Guru. The Adiyogi passed on his knowledge of yoga to the Saptarishis or "seven sages". This powerful yogic science was carried by the seven sages to the whole world. They travelled to Asia, the Middle East, Northern Africa and South America and other parts of the world to impart their knowledge of yogic science. In the Indian sub-continent, the culture of yoga travelled through the sages Agastya, the Saptarishi, who drew this culture into Indian traditions. The beginnings of Yoga were developed by the Indus-Sarasvati civilization. The most renowned Yogic scriptures are the Bhagavad- Gita which was drafted around 500 B.C.E. The pre-Vedic period around 2700 B.C. has traces of Yoga. Then, the science of yoga

landed on the classical stage, which was the time period between 500 B.C. to 800 A.D. Patanjali's Yoga- Sutras define the classical period. During this period only, the concept of Five vows – Pancha Mahavrata and Astha Magga or eightfold path came into existence.

Then, in the post-classical era, yogic developed Tantra yoga, which cleanses the body and the mind to help us break the knot which ties our inner soul to our physical existence. The modern period of yogic science began in the late 1800s and early 1900s. This period saw the contribution of various yogis to the development of Raja Yoga. Yoga is practised all over the world in contemporary times, to promote health and development of body and soul.

### **International Yoga Day 2022:**

International Yoga day 2022 is celebrated on June 21 across the world. The concept of the International Day of Yoga was first proposed by Prime Minister Narendra Modi during his speech at the UN General Assembly in 2014. Later in December of 2014, UNGA announced that June 21 will be celebrated as International Yoga Day or World Yoga Day. Since 2015, International Yoga Day has been celebrated on June 21 worldwide.

NSRIT NSS Unit celebrated **International Day of Yoga** on **21<sup>st</sup> of June**, declared by offline event. The programme was attended by more than 54 members of students and faculty with great enthusiasm and happiness. The Yoga postures were guided by Sri **Ch.Dilleswararao** Yoga trainer like Mudrasana, Vrukshasana, Trikonasana, Surya Namsakar, Bhujangasana, and Pawanamukthasana and finally ended with Pranayamam the prayers were also included in the programme.

Honorable Director Dr. J. Raja Murgadoss, NSRIT during his address stated that Yoga is the perfect way to rejuvenate the mind and make it to be happy. Respected Principal **Dr. M. A. Khadar Baba**, stated the benefits of Yoga and its uses and emphasized to learn in an atmosphere where there is discipline in thoughts and attitude. Secretary **Dr.N.Prasad Raju Garu** appreciated the NSS Programme Officer **Sri S. Lovaraju & Ch.Dilleswararao**



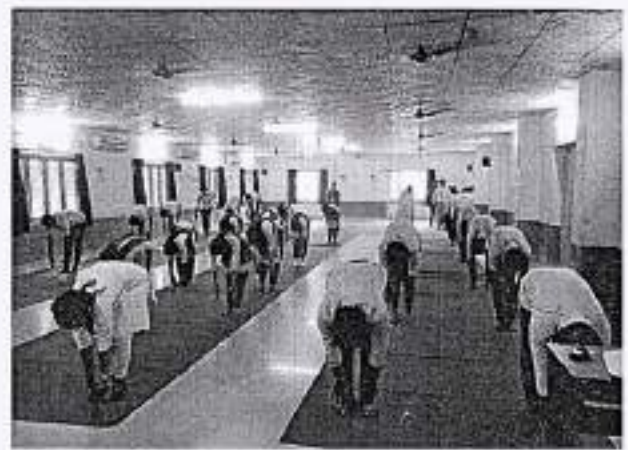
Physical directors and NSS student volunteers for their team spirit. He encouraged the participants through his valuable words.

Heartful thanks to our Prime minister **Sri. N.Narendra modi** for giving a wonderful opportunity to colleges to have a useful activity .The college is also very much thankful to the NSS UNIT of JNTUK for organizing this under them.

**International Yoga Day 2022 Theme:**

The 8th edition of International Day of Yoga (IDY) will be celebrated with the theme "Yoga for Humanity". The theme for this year's IDY was selected after much deliberation and consultation. The theme "Yoga for Humanity" portrays how during the peak of the COVID-19 pandemic yoga served humanity in alleviating the suffering.

- Prime Minister Narendra Modi, while addressing an event marking the seventh International Yoga Day on Monday morning, said, "Today, when the whole world is combating the coronavirus disease pandemic, yoga remains a ray of hope."
- The Prime Minister also launched an Yoga app that will be available worldwide. "In collaboration with WHO, India has taken another important step. We will be launching the mYoga app which will have yoga training videos in different languages for people across the world. This will help us achieve our 'One World, One Health' motto," he added.
- This year, the theme is 'Yoga For Wellness'. Elaborating on it, PM Modi wrote on Twitter: "The theme this year is 'Yoga For Wellness', which focuses on practicing Yoga for physical and mental wellbeing.





Sontyam, Andhra Pradesh, India  
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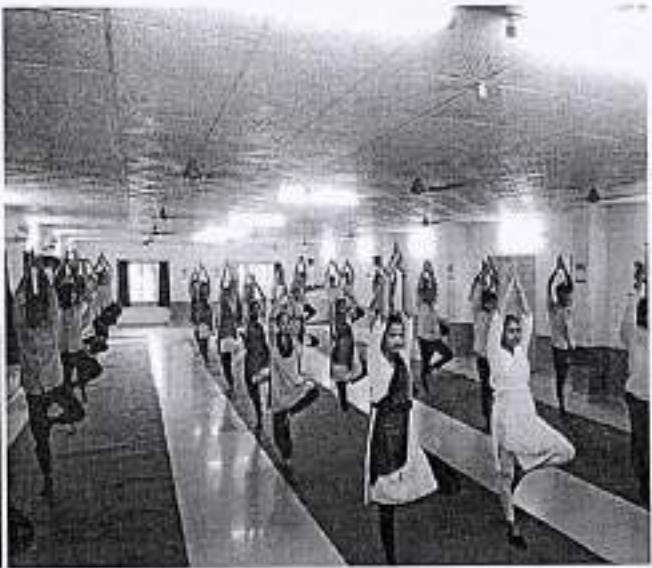
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*Ch. Dileepwarao*  
**Physical Director**  
 PHYSICAL DIRECTOR

N.S. Raju Institute of Technology  
 Sontyam, Visakhapatnam 531173.



**Principal**  
 PRINCIPAL

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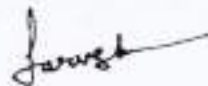
# Certificate of Training

**RAKESH BUDDHA**

from Nadimpalli Satyanarayana Raju Institute of Technology(NSRIT) has successfully completed a 6-week online training on **Core Java**. The training consisted of Getting Started with Java, Leveraging Basic Concepts, Object Oriented Programming, and Java App Development modules.

RAKESH scored 93% marks in the final assessment and is a top performer in the training.

We wish RAKESH all the best for future endeavours.



**Sarvesh Agarwal**

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-10-27

Certificate no: 9916684D-5279-7868-5858-AAF093458712

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DHARMANA scored 96% marks in the final assessment and is a top performer in the training.

We wish DHARMANA all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

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# Certificate of Training

**KARAKA REVATHI**

from NSRIT has successfully completed a 6-week online training on **Core Java**. The training consisted of Getting Started with Java, Leveraging Basic Concepts, Object Oriented Programming, and Java App Development modules.

KARAKA scored 98% marks in the final assessment and is a top performer in the training.  
We wish KARAKA all the best for future endeavours.



**Sarvesh Agarwal**

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-11-09      Certificate no.: 9729D866-A54D-98BE-B5B4-06565DD37A78

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

# Certificate of Training

**GAJULA NISHANK BABA**

from NSRIT college has successfully completed a 6-week online training on **Core Java**. The training consisted of Getting Started with Java, Leveraging Basic Concepts, Object Oriented Programming, and Java App Development modules.

GAJULA scored 98% marks in the final assessment and is a top performer in the training.

We wish GAJULA all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-11-05

Certificate no: 9368266E-03D3-604E-35FD-530F13283B45

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# Certificate of Training

**PEMMADI UDAY SRINIVAS**

from NADIMPALLI SATYARANAYANA RAJU INSTITUTE OF TECHNOLOGY has successfully completed a 6-week online training on **Core Java**. The training consisted of Getting Started with Java, Leveraging Basic Concepts, Object Oriented Programming, and Java App Development modules.

In the final assessment, PEMMADI scored 80% marks.

We wish PEMMADI all the best for future endeavours.



**Sarvesh Agarwal**

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-11-03

Certificate no.: 5079E4F7-7617-5AB6-5E09-2CC31C71E9D4

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

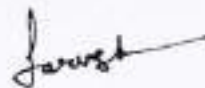


# Certificate of Training

**YERNI BABY PINISETTI**

YERNI BABY from NSRIT has successfully completed a 6-week online training on **Core Java**. The training consisted of Getting Started with Java, Leveraging Basic Concepts, Object Oriented Programming, and Java App Development modules.

YERNI BABY scored 100% marks in the final assessment and is a top performer in the training. We wish YERNI BABY all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-11-09

Certificate no.: F19F3377-548C-DD36-340F-E826D8469167

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)

**NSRIT****NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

ESTD:2008

**(AUTONOMOUS)**

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
Recognized under Section 2(f) & 12(B) of the UGC Act, 1956| Accredited by NAAC with 'A' Grade

Date: 17-09-2022

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING****Report on a One Day Guest Lecture on "Design and Testing of converters for renewable energy systems"**

The Department of Electrical & Electronics Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous) has conducted a One Day Guest Lecture on "Design and Testing of converters for renewable energy systems" on 17<sup>th</sup> September' 2022, from 10:30AM till 12:00PM at Block - I, Seminar Hall. The resource person was Dr. M.Prabhakar / Professor / SELECT / VIT Chennai. He has co-authored about 45 research papers in various reputed journals and conferences. His research interests include power electronics, power converters, high-gain DC-DC converters and DC microgrids. He was a recipient of the Outstanding Teacher Award for his excellent teaching and research contributions in 2009 and the Research Award which is awarded by the Vellore Institute of Technology for his research contributions continuously since 2012. He is an active reviewer of various reputed journals.

**NSRIT**

AUTONOMOUS

WEBINAR

**ENGINEERS'  
DAY SPECIAL**SATURDAY | TIME  
SEP. 17, 2022 | 10:30 AM**SPEAKER**  
**DR. M. PRABHAKAR**  
PROFESSOR, VIT, CHENNAI

TOPIC: RENEWABLE ENERGY SYSTEMS

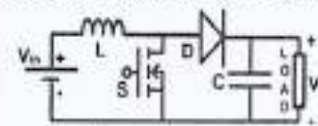
**DEPARTMENT OF  
ELECTRICAL & ELECTRONICS ENGINEERING**

The event has been conducted for the EEE III & IV year, total 60 students and the Faculty, total 11 members. The Head of the Department, Dr. RSR Krishnam Naidu has attended the event along with all the Department staff. Dr. R. Amalawari, Assistant Professor has hosted the event. The Head of the Department has addressed the gathering as well as thanked the Resource person for accepting the invitation for the conduction of the event.

REFERENCES Background Converter Synthesis Practical Design Aspects Experimentz


REC

### Classical Boost Converter (CBC)



Stored energy is transferred from L to C.

Either the Switch or the Diode conduct-but "not both".



$V_{in} = 24V$   
 $V_{out} = 48V$   
 $P_{out} = 96W$   
 $f_{sw} = 50kHz$   
 $\Delta I_L = 20\% \text{ of } I_{in}$   
 $\Delta V_C = 5\% \text{ of } V_o$

Dr. M. Prabhakar,  
 Professor, Centre for Smart Grid Technologies  
 prabhakar.msvvit.ac.in

Design and Testing of Converters for Renewable Energy Systems  
 Dr. Prabhakar M 50287's screen social - 17<sup>th</sup> Sep 2022, NSRIT, AP

The session has been started by the resource person. The session consisted of analysis, design and testing of DC DC boost converters. Initially the conventional boost converter design and testing are discussed along with practical waveforms. Next the methodologies required to improve the gain were presented. Later the converter topologies employing these methods are shown with practical results. Finally the importance of component design, component selection, testing environment and testing procedures are highlighted.



References

Background

Converter Synthesis

Practical Design Aspects

Experimental Results

Summary

## Non-Iso

- ✓ Additional flexibility in control
- ✓ Smaller transformer size
- ✓ Circuit breakers – lower rating
- ✗ Interruption of large DC currents



Design and Testing of Converters for Renewable Energy Systems  
Webinar – Engineers' Day Special – 17<sup>th</sup> Sep 2022, NSRIT, AP

Dr. M. Prabhakar,  
Professor/Centre for Smart Grid Technologies  
prabhakar.m@vit.ac.in

4



The session has been concluded by Vote of Thanks by Dr. R. Amaleswari, Assistant Professor by thanking the Resource person and the Head of Department for conducting such a resourceful event and requested to conduct some more such fruitful sessions in the future.

The session was ended with National Anthem.



HOD – EEE

(Dr. R S R Krishnam Naidu)

DIRECTOR

(Dr. J. RAJA MURUGADOSS)



Gmail

Search in mail



59

Compose

Mail

Inbox

124

Chat

Starred

Spaces

Snoozed

Sent

Drafts

Meet

More

Labels

## Guest Lecture - regarding External Inbox x

**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
to prabhakar.m

S

Dear Sir,

Greetings for the day!

We are planning a guest lecture titled "Design and Testing of Converters for Renewable Energy & for our 3rd and 4th year EEE students along with our staff members on 17/09/22 (Saturday) for an h expertise in this area of research.

Please consider this email as a humble invitation and kindly revert back with a positive response.

Sir, Please suggest other possible date if you already have any pre-planned appointments on this date.

Thanks and Regards,

Dr. Amaleswari Rajulapati,

Assistant Professor / EEE,

NSRIT(A), <http://nsrit.edu.in/>.



Gmail



Search in mail



- Compose
- Mail
- Inbox 124
- Starred
- Snoozed
- Chat
- Sent
- Drafts
- Spaces
- More
- Meet

## Labels

Dear Amaleswari,

Thank you so much for inviting me to deliver a guest lecture.

As of now, 17th Sep 2022 10.30AM is convenient for me.

If there are any last-minute changes, I shall inform you by 15th Sep evening.

Regards,

Dr. M. Prabhakar,  
Professor / Centre for Smart Grid Technologies,  
School of Electrical Engineering (SELECT),  
Vellore Institute of Technology,  
Vandalur-Kelambakkam Road,  
Chennai - 600127. India.

Vellore Institute of Technology (VIT), India -

- Ranked among the top 601-700 Universities of the world and one among the top 3 Institutions in I
- The 9th best University, the 10th best ch institution and the 12<sup>th</sup> best engineering institutor

Unable to connect to chat.

## **BRIEF PROFILE**



**M. PRABHAKAR** received the B.E. degree in electrical and electronics engineering from the University of Madras, Chennai, India, in 1998, the M.E. degree in power electronics and drives from Bharathidasan University, Tiruchirappalli, India, in 2000, and the Ph.D. degree in electrical engineering from Anna University, Chennai, in 2012. He started his teaching career as a Lecturer, in 2000. Since 2012, he has been associated with the School of Electrical Engineering (SELECT), Vellore Institute of Technology, Chennai. From 2019, he has been working as a professor and is associated with the Centre of Smart Grid Technologies, since May 2022. He has co-authored about 45 research papers in various reputed journals and conferences.

His research interests include power electronics, power converters, high-gain DC-DC converters, and DC microgrids. He was a recipient of the Outstanding Teacher Award for his excellent teaching and research contributions in 2009 and the Research Award which is awarded by the Vellore Institute of Technology for his research contributions continuously since 2012. He is an active reviewer of various reputed journals.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IV EEE, VII SEMESTER 17.12

Sl.No	Roll No	Name of Candidate	Signature
1	19NU1A0201	BOBBILI VARSHINI SIVA SANTHOSHI	<i>[Signature]</i>
2	19NU1A0202	CHELLUBOINA HARI SATYA TEJA	<i>[Signature]</i>
3	19NU1A0203	JONNADA SATYA	<i>[Signature]</i>
4	19NU1A0204	KALLA HARSHAVARDHAN	<i>[Signature]</i>
5	19NU1A0205	KANCHIPATI PRASAD	<i>[Signature]</i>
6	19NU1A0207	KOPPOJU SAI BRAHMARI	<i>[Signature]</i>
7	19NU1A0208	LENKA DINESH MANIKANTA	<i>[Signature]</i>
8	19NU1A0210	PAYADA ANIL KUMAR	<i>[Signature]</i>
9	19NU1A0211	REDDIPALLI HIMANSHU	<i>[Signature]</i>
10	19NU1A0213	SRIKAKULAPU CHINNI HARISH	<i>[Signature]</i>
11	20NUSA0201	ADARI VARAHA VENKATA JAGADEESWARARAJA	<i>[Signature]</i> 19/12/22
12	20NUSA0202	AINAMPUDI HARENDRA VARMA	<i>[Signature]</i>
13	20NUSA0203	BALIBANI PAVAN KUMAR	<i>[Signature]</i>
14	20NUSA0204	BODIREDDY CHANDRA SEKHAR REDDY	<i>[Signature]</i>
15	20NUSA0205	BOIDA VIJAYA KUMAR	<i>[Signature]</i>
16	20NUSA0206	CHODIPILI VENKATA SATYA MADHU	<i>[Signature]</i>
17	20NUSA0207	CHUKKALA SRINU	<i>[Signature]</i>
18	20NUSA0208	DARIMISETTI MOULI	<i>[Signature]</i>
19	20NUSA0209	KAMPARA VENI SRI	<i>[Signature]</i>
20	20NUSA0210	KANDREGULA JAYANTHI	<i>[Signature]</i>
21	20NUSA0211	KATIPALLI AJAY KUMAR	<i>[Signature]</i>
22	20NUSA0212	KUNDRAPU ANUSHA	<i>[Signature]</i>
23	20NUSA0213	MIRTIHAPATI GANESI KUMAR	<i>[Signature]</i>
24	20NUSA0214	MYLAPALLI RAMESH	<i>[Signature]</i>
25	20NUSA0215	PATIBANDLA BOAZ RAJU	<i>[Signature]</i>
26	20NUSA0216	SATYAVARAPU DURGA TARUN	<i>[Signature]</i>



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
III BEEV SEMESTER**

SLNo	Roll No	Name of Candidate	Signature
1	20NU1A0201	ADAPUREDDI DIVYA	A. Divya
2	20NU1A0202	ADIMULAM BHAGATHI	A. Bhagathi
3	20NU1A0203	ALLA POLI VINAY	A. Vinay
4	20NU1A0204	ALLADI AKSHAY	A. Akshay
5	20NU1A0205	APPIKONDA ASWINI	A. Aswini
6	20NU1A0207	CHAPPA CHUDAMANI	Ch. Chudamani
7	20NU1A0208	CHINTHALA JANANI	Ch. Janani
8	20NU1A0209	D TARUN CHANDRA YUVARAJ	D. Tarun Chandra Yuvraj
9	20NU1A0210	DAMMU DINESH	D. Dinesh
10	20NU1A0211	GOLLAVILLI MANI DEEPAK	G. Mani Deepak
11	20NU1A0212	GORLE SRINIVAS	G. Srinivas
12	20NU1A0213	GOTTAPU DIVYA	G. Divya
13	20NU1A0214	ITHAMSETTY JANARDHAN KUMAR	J. Janardhan Kumar
14	20NU1A0215	JAKKANA ASHOK	J. Ashok
15	20NU1A0216	KALLA VAMSI KRISHNA	K. Vamsi Krishna
16	20NU1A0217	KARAKA REVATHI	K. Revathi
17	20NU1A0218	KASSEY DELIESH SAI CHARAN	K. D. Sai Charan
18	20NU1A0219	KENGUVA UMA MAHESWAR	K. Uma Maheswar
19	20NU1A0220	MIRTHIPATI LOKESH	M. Lokesh
20	20NU1A0221	NAKKELLA DIVYA	N. Divya
21	20NU1A0222	NIRUJOGI RAMESH	N. Ramesh
22	20NU1A0223	PEMMADI UDAY SRINIVAS	P. Uday Srinivas
23	20NU1A0224	PENISETTI YERNI BABY	P. Yerni Baby
24	20NU1A0225	SALAPU VASANTHI	S. Vasanthi
25	20NU1A0226	SIRMA YUGANDHAR	S. Yugandhar
26	20NU1A0227	YELLAPU NAGA SOWMYA SREE	Y. Sowmya Sree
27	21NU5A0201	BEVARA PRIYANKA	B. Priyanka
28	21NU5A0202	BUDDHA RAKESH	B. Rakesh
29	21NU5A0203	DHARMANA VENKATA SAI RAKESH	D. Rakesh
30	21NU5A0204	DODDI SINDHUSHA	D. Sindhusa
31	21NU5A0205	GAJULA NISHANK BABA	G. Nishank Baba
32	21NU5A0206	K N JAGANNADHA LOKESH VARMA	K. N. Jagannadha Lokesh Varma
33	21NU5A0207	NEELAPU CHARAN KUMAR REDDY	N. Charan Kumar Reddy
34	21NU5A0208	PALURI SAI VENKATA TEJA	P. S. V. Teja

**NSRIT****NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

ESTD:2008

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(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
Recognized under Section 2(F) & 12(B) of the UGC Act, 1956 | Accredited by NAAC with 'A' Grade

Date: 21-10-2022

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING****Report on a One Day Guest Lecture on "Recent trends in Design and Control of Electric Vehicles"**

The Department of Electrical & Electronics Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous) has conducted a One Day Guest Lecture on "Recent trends in Design and Control of Electric Vehicles" on 21<sup>st</sup> October 2022, from 2:30PM till 4:00PM at Block – I, Seminar Hall. The resource person was Dr. Selvajyothe / Assistant Professor / IIIT D &M, Kancheepuram, Chennai. She has co-authored 4 books and 36 research papers in various reputed journals and conferences. Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received "Research fellowship in the University of Padova, Italy in 2009". Also received "Best paper award in Technical session 1.1 of CIEC 2016". She is an active reviewer of various reputed journals.

**NSRIT**

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**Department of EEE****Topic: Recent Trends in Design  
and Control of Electric Vehicles****RESOURCE PERSON**

**Dr. K. Selvajyothe,**  
IIITD & M (Indian Institute of  
Information Technology, Design and  
Manufacturing, Chennai, Tamil Nadu)

October 21, 2022

02:30 PM - 03:30 PM

The event has been conducted for the EEE II, III & IV year, total 125 students and the Faculty, total 11 members. The Head of the Department, Dr. RSR Krishnam Naidu has attended the event along with all the Department staff. Dr. R. Amalawari, Assistant Professor has hosted the event. The Head of the Department has addressed the gathering as well as thanked the Resource person for accepting the invitation for the conduction of the event.



The session has been started by the resource person. The session consisted of design and control of Electric Vehicles (EVs). Initially why EVs, EV adoption Curve is discussed along with E-mobility ecosystem. Next impact of adoption of EV on the DS was presented. Later types of EVs, EV subsystem are explained. Finally Charging Infrastructure and Electric motors, importance of battery design, selection, testing environment and testing procedures are highlighted.





Sontyam, Andhra Pradesh, India

V7CW+386, Sontyam, Andhra Pradesh 531173,  
India

Lat 17.870144°

Long 83.295648°

21/10/22 03:54 PM GMT +05:30

Google

GPS Map Camera



Sontyam, Andhra Pradesh, India

V7CW+386, Sontyam, Andhra Pradesh 531173,  
India

Lat 17.870149°

Long 83.295664°

21/10/22 02:36 PM GMT +05:30

Google

GPS Map Camera

The session has been concluded by Vote of Thanks by Dr. R. Amaleswari, Assistant Professor by thanking the Resource person and the Head of Department for conducting such a resourceful event and requested to conduct some more such fruitful sessions in the future.

The session was ended with National Anthem.

  
HOD - EEE

(Dr. R S R Krishnam Naidu)

DIRECTOR

(Dr. J. RAJA MURUGADOSS)



amaleswari r &lt;amaleswari.eee@nsrit.edu.in&gt;

---

**Request for Guest Lecture - Regarding**

4 messages

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**amaleswari r** <amaleswari.eee@nsrit.edu.in>

Sat, Sep 10, 2022 at 8:53 PM

To: ksjoyothi@iitdm.ac.in

Dear Mam,

Greetings for the day!

We are planning a guest lecture titled "Recent trends in Design and Control of Electric Vehicles" at our institute through virtual mode for our 3rd and 4th year EEE students along with our staff members on 1/10/22 (Saturday) for an hour from 10:30am. I request you to share your expertise in this area of research.

Please consider this email as a humble invitation and kindly revert back with a positive response.

Mam, Please suggest other possible date if you already have any pre-planned appointments on this date.

Thanks and Regards,

Dr. Amaleswari Rajulapati,

Assistant Professor / EEE,

NSRIT(A), <http://nsrit.edu.in/>,

Visakhapatnam, India.

Mob: +91 9884489614.

---

**Selvajyothi Kamakshy** <ksjoyothi@iitdm.ac.in>

Sat, Sep 24, 2022 at 6:06 AM

To: amaleswari r &lt;amaleswari.eee@nsrit.edu.in&gt;

Shall we have it on October 15th or later Saturdays?

Dr K.Selvajyothi

ksjoyothi@iitdm.ac.in

Department of Electronics and Communication Engineering

IITD&amp;M Kancheepuram

12/25/22, 7:27 PM

Impati Satyanarayana Raju Institute of Technology Mail - Request for Guest Lecture - Regarding

off Vandalur - Kelambakkam Road, Chennai-127  
Ph: 91-44-2747 6348

[Quoted text hidden]

**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
To: Selvajyothe Kamakshy <ksjyothe@iitdm.ac.in>

Wed, Sep 28, 2022 at 10:26 AM

Good morning mam,  
We can have on October 15th as you suggested.

I request you to send me one page profile and photo of yours.

Thanks and Regards,

Dr. Amaleswari Rajulapati,  
Assistant Professor / EEE,  
NSRIT(A), <http://nsrit.edu.in/>,  
Visakhapatnam, India.  
Mob: +91 9884489614.

[Quoted text hidden]

**amaleswari r** <amaleswari.eee@nsrit.edu.in>  
To: Selvajyothe Kamakshy <ksjyothe@iitdm.ac.in>

Fri, Oct 21, 2022 at 11:19 AM

Good morning mam,  
I am forwarding the meeting link for today's lecture session.  
Topic: Recent trends in Design and Control of Electric Vehicles  
Date and Time: 21.10.22, Friday, 2:30PM to 3:30PM

Join Zoom Meeting  
<https://us06web.zoom.us/j/2300295677?pwd=VnR1QWZBdjRXOUkwWndWNmNOQjhuZz09>

Meeting ID: 230 029 5677  
Passcode: NSRIT

Thanks and Regards,  
Dr. Amaleswari Rajulapati.

12/25/22, 7:27 PM

Nadimpalli Satyanarayana Raju Institute of Technology Mail - Request for Guest Lecture - Regarding

Assistant Professor / EEE,

NSRIT(A), <http://nsrit.edu.in/>,

Visakhapatnam, India,

Mob: +91 9884489614.

[Quoted text hidden]

## BRIEF PROFILE



**Dr. Selvajothi K** received B. Tech degree in electrical and electronics engineering from the University of Kerala, Thiruvananthapuram, India, in 1995, M.E. degree in power electronics and industrial drives from Satyabhama Institute of Science and Technology, Chennai, India, in 2004, and Ph.D. degree in electrical engineering from IIT

Madras, Chennai, in 2009. Now she is faculty in department of ECE, IITD&M (Indian Institute of Information Technology, Design and Manufacturing) Kancheepuram, Chennai. She has 20 years teaching experience and 17 years research experience. She is a life member of ISTE, member in IIS, IEEE, SAEINDIA and ESSI. She has co-authored 4 books, 17 journals and 19 conference Publications. She was Co Chair / School of Computer Science and Electrical Engineering (June 2017-Jan 2018) and HOD/ Dept of ECE (Jan 2018-June 2019). Also handled numerous positions such as UG admission coordinator (2009-2011), Warden-Girls hostel (2010-2013), Placement coordinator (2012-2014), PG Admission i/c, PhD Admission i/c, Invited Lectures Prof i/c, member in disciplinary committee (2017-2019).

Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received "Research fellowship in the University of Padova, Italy in 2009". Also received "Best paper award in Technical session 1.1 of CIEC 2016". She is an active reviewer of various reputed journals.



Sl. No	ROLL NO	Name	Signature
1	21NU1A0201	ABIR DAS	Abir Das
2	21NU1A0202	ANUPOM RAIKUL	Anupom Raiikul
3	21NU1A0203	ANHI DEVI	Anhi Devi
4	21NU1A0204	ATULI ROHITH RAMACHANDRA GOVINDU	Govindu
5	21NU1A0205	BARHU GHANIA CHANDRA SETHI	Sethi
6	21NU1A0206	BAVARAJU BHAVANI	BHAVANI
7	21NU1A0207	BHAVISETTY VARA PRASAD	B. Vara Prasad
8	21NU1A0208	BIPIN KUMAR SIVA	KUMAR SIVA
9	21NU1A0209	BOHIA SATHVIKA	SATHVIKA
10	21NU1A0210	BOHANI PAVANI KALYANI	P. Pavani Kalyani
11	21NU1A0211	CHALLA SASI VARDHANI RAO	Ch. Sasivardhan
12	21NU1A0212	CHAVAKULA KUMAR	Ch. Kumar
13	21NU1A0213	DAKARAPU SAI BALIND	M.L.H.D
14	21NU1A0215	DAJAN SINGH HARSHA VARDHAN	HARSHA VARDHA
15	21NU1A0216	DHARMI REDDY PUSHPAJA	D. Pushpa
16	21NU1A0217	DOYALA SARANI KUMAR	D. Sarani Kumar
17	21NU1A0218	GANITA POLI RAJIDU	G. Poli Rajidu
18	21NU1A0219	GAKA SRAYANI KUMAR	
19	21NU1A0220	KARAKA JITHENDRA	K. Jithendra
20	21NU1A0221	KOTYADA LOKESHITHA	K. Lokeshitha
21	21NU1A0222	KAREDLA MOHANI LAKSHMI BALA	L. Lakshmi Bala
22	21NU1A0223	KARI MAHESH	K. MAHESH
23	21NU1A0224	KARSI BHASKAR RAO	K. B. Bhaskar Rao
24	21NU1A0225	KEMBURU KARTHIC	K. KARTHIC
25	21NU1A0226	KIRITALI ADHYAN	K. Adhyan
26	21NU1A0227	KANDALA RAJESH	R. Rajesh
27	21NU1A0228	KALLAREDDI LALITH KUMAR	L. Lalith
28	21NU1A0229	MAJIDI BHANU	M. Bhanu
29	21NU1A0230	MIRYAPALLI SAI KRISHNA	M. Sai Krishna
30	21NU1A0231	MUTHURAJ GAYATHI	M. Gayatri
31	21NU1A0233	NAGJELLI SUJATHA	N. Sujatha
32	21NU1A0234	NAZKA MIRZA KIFAYAT	N. Kifayat
33	21NU1A0235	NANDINI DEVI YIPANI	N. Devika
34	21NU1A0236	PAJURALA MANOJITHA CHENCH	P. Manojitha

35	21NU1A0237	PATTINI PARAMESH	P. Paramesh
36	21NU1A0239	PADALA KANCHANA SAI GOWTHAMI	P.K.S.Gowthami
37	21NU1A0240	PAISAKA ROHIT ROY	P. ROHIT
38	21NU1A0241	PALAVALASA SIRI	P. Siri
39	21NU1A0242	PALLI RADHKA	
40	21NU1A0243	PATABALLA TEJA SANDEEP	P. Teja Sandeep
41	21NU1A0244	PENTAPATI SIVA RAMESH	P. SIVA
42	21NU1A0245	PONTHAPALLI BHAGYA LAKSHMI	P. BHAGYA
43	21NU1A0246	POTTI KRISHNA VARDHAN	P. VARDHAN
44	21NU1A0247	PRASADULA DEEPTHI	P. Deepthi
45	21NU1A0248	RAPARTHI KARTHIK	R. Kartik
46	21NU1A0249	SABBAVARAJU POORNA CHANDRA RAO	S. Poornaj
47	21NU1A0250	SARAGADAM YESWANTH	S. Yeswanth
48	21NU1A0251	SARIPALLI MANIKANTA SWAMY	S. Manikanta Swamy
49	21NU1A0253	SUDABATHULA KETHAN SUBHASH	S. Kethan
50	21NU1A0254	TANATAPU UPENDRA	T. UPENDRA
51	21NU1A0255	TEEGALA SRAVANTHI	T. SRAVANTHI
52	21NU1A0256	UPPALAPATI VARSHITHA	U. VADSHITHA
53	21NU1A0257	VARRI DIWAKAR	V. DIWAKAR
54	21NU1A0258	VAVILAPALLI CHANDRA SEKHAR	V. Chandra Sekhar
55	20NU1A0206	BADITHAMANI R.S.S.V.SAI VIGNESH	R. R.S.S. VIGNESH

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Guest Lecture attendance on 21.10.22  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IV BEE, VII SEMESTER

Sl.No	Roll No	Name of Candidate	Signature
1	19NU1A0201	BOBBILI VARSHINI SIVA SANTHOSHI	B. Varshini
2	19NU1A0202	CHELLUBOINA HARI SATYA TEJA	Chelluboina Hari Satya Teja
3	19NU1A0203	JONNADA SATYA	Jonada Satya
4	19NU1A0204	KALLA HARSHAVARDHAN	Kalla Harshavardhan
5	19NU1A0205	KANCHIPATI PRASAD	Kanchipati Prasad
6	19NU1A0207	KOPPOJU SAI BRAHMAJI	Koppoju Sai Brahmaji
7	19NU1A0208	LENKA DINESH MANIKANTA	Lenka Dinesh Manikanta
8	19NU1A0210	PAVADA ANIL KUMAR	Pavada Anil Kumar
9	19NU1A0211	REDDIPALLI HIMANSHU	Reddipalli Himanshu
10	19NU1A0213	SRIKARULAPU CHINNI HARISH	Srikarulapu Chinni Harish
11	20NUSA0201	ADARI VARAHA VENKATA JAGADEESWARANMA	Adari Varaha Venkata Jagadeeswaramma
12	20NUSA0202	AINAMPUDI NARENDRA VARMA	Ainampudi Narendra Varma
13	20NUSA0203	BALIBANI PAVAN KUMAR	Balibani Pavan Kumar
14	20NUSA0204	BODIREDDY CHANDRA SEKHA REDDY	Bodireddy Chandra Sekha Reddy
15	20NUSA0205	BOIDA VIJAYA KUMAR	Boida Vijaya Kumar
16	20NUSA0206	CHODIPILLI VENKATA SATYA MADHU	Chodipilli Venkata Satya Madhu
17	20NUSA0207	CHUKKALA SRINU	Chukkala Srinu
18	20NUSA0208	DARIMSETTI MOULI	Darimsetti Mouli
19	20NUSA0209	KAMPARA VENI SRI	Kampara Veni Sri
20	20NUSA0210	KANDREGULA JAYANTH	Kandregula Jayanth
21	20NUSA0211	KATIPALLI AJAY KUMAR	Katipalli Ajay Kumar
22	20NUSA0212	KUNDRAJU ANUSHA	Kundraju Anusha
23	20NUSA0213	MIRTHIPATI GANESH KUMAR	Mirthipati Ganesh Kumar
24	20NUSA0214	MYLAPALLI RAMESH	Mylapalli Ramesh
25	20NUSA0215	PATIDANDLA BOAZ RAJU	Patidandla Boaz Raju
26	20NUSA0216	SATYAVARAPU DURGA TARUN	Satyavarapu Durga Tarun

Guest Lecture attendance on 21.10.22

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
III EEE,V SEMESTER

Sl.No	Roll No	Name of Candidate	Signature
1	20NU1A0201	ADAPUREDDI DIVYA	A. Divya
2	20NU1A0202	ADIMULAM BHAGATHI	Bhagathi
3	20NU1A0203	ALLA POLI VINAY	A. Poli Vinay
4	20NU1A0204	ALLADI AKSHAY	Akshay
5	20NU1A0205	APPIKONDA ASWINI	A. Aswini
6	20NU1A0207	CHAPPA CHUDAMANI	Chudamani
7	20NU1A0208	CHINTHALA JANANI	Ch. Janani
8	20NU1A0209	D TARUN CHANDRA YUVARAJ	Tarun Chandra Yuvaraj
9	20NU1A0210	DAMMU DINESH	D. Dinesh
10	20NU1A0211	GOLLAVILLI MANI DEEPAK	A. Mani Deepak
11	20NU1A0212	GORLE SRINIVAS	G. Srinivas
12	20NU1A0213	GOTTAPU DIVYA	G. Divya
13	20NU1A0214	ITHAMSETTY JANARDHAN KUMAR	J. Janardhan Kumar
14	20NU1A0215	JAKKANA ASHOK	J. Ashok
15	20NU1A0216	KALLA VAMSI KRISHNA	K. Vamsi
16	20NU1A0217	KARAKA REVATHI	K. Revathi
17	20NU1A0218	KASSEY DELIESH SAI CHARAN	K. D. Sai Charan
18	20NU1A0219	KENGUYA UMA MAHESWAR	K. Uma Maheswar
19	20NU1A0220	MIRTHIPATI LOKESH	M. Lokesh
20	20NU1A0221	NAKKELLA DIVYA	N. Divya
21	20NU1A0222	NIRUJOGI RAMESH	N. Ramesh
22	20NU1A0223	PENMADI UDAY SRINIVAS	P. Uday Srinivas
23	20NU1A0224	PINISETTI YERNI BABY	P. Yerni Baby
24	20NU1A0225	SALAPU VASANTHI	S. Vasanthi
25	20NU1A0226	SIMMA YUGANDHAR	S. Yugandhar
26	20NU1A0227	YELLAPU NAGA SOWMYA SREE	Y. Sowmya
27	21NU5A0201	BEVARA PRIYANKA	B. Priyanka
28	21NU5A0202	BUDDHA RAKISHI	B. Rakishi
29	21NU5A0203	DHARMANA VENKATA SAI RAKESH	D. Rakesh
30	21NU5A0204	DODDI SINDHUSHA	D. Sindhusha
31	21NU5A0205	GAJULA NISHANK BABA	G. Nishank Baba
32	21NU5A0206	K N JAGANNADHA LOKESH VARMA	K. Lokesh Varma
33	21NU5A0207	NEELAPU CHARAN KUMAR REDDY	N. Charan Kumar Reddy
34	21NU5A0208	PALURI SAI VENKATA TEJA	P. S. V. Teja



ESTD:2008

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Date: 21-12-2022 to 23-12-2022

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**Report on "3 day hybrid workshop on EV Technology – Hands on Experience"**

The Department of Electrical & Electronics Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous) has conducted a "3 day hybrid workshop on EV Technology – Hands on Experience" from 21<sup>st</sup> - 23<sup>rd</sup> December 2022 at Block – I, APSSDC Lab. The resource persons were Dr. Raja / Associate Professor / IIT D &M, Kancheepuram, Chennai, Dr. Selvajyothi / Assistant Professor / IIT D &M, Kancheepuram, Chennai, Dr. J Ravi Kumar / Zoe Talent Solutions, Dubai, Mr. Venkat Reddy / Vihaan Electrix.

**Dr. B. Raja**

She has co-authored 4 books and 36 research papers in various reputed journals and conferences. Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received "Research fellowship in the University of Padova, Italy in 2009". Also received "Best paper award in Technical session 1.1 of CIEC 2016". She is an active reviewer of various reputed journals.

**Dr. Selvajyothi**

She has co-authored 4 books and 36 research papers in various reputed journals and conferences. Her research interests include power electronics, Harmonics Distortion, PLL/FLL, Grid connected Inverters, Power Quality, Electric Vehicles, Medical Instrumentation, FPGA/DSP Realization of Control Algorithms in Power Electronics, Instrumentation and Product Design. She received "Research fellowship in the University of Padova, Italy in 2009". Also received "Best paper award in Technical session 1.1 of CIEC 2016". She is an active reviewer of various reputed journals.

**Dr. J. Ravi Kumar**

He was awarded *Young Scientist Fellowship* by Directorate of Science and Technology, HRD Ministry of India for research project on *Variable Speed Drive Systems* with financial grant. He has received **UAE GOLDEN VISA** under Talented Professionals category. He is a Senior IEEE member, member of International Engineers Association (IAENG) and reviewer for various international journals. His research and teaching interests are in modeling, design, and control of electric motors and drives for industrial and alternate energy applications. He has published research articles in various international journals/conferences.

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### CONVENOR

Dr. B. Anandiswari, Assistant Professor (EEE)

### MEMBERS

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Mr. K. S. Komarajeyyulu, Associate Professor  
Mr. K. R. M. Tarakesh, Assistant Professor  
Mr. A. Balu Raja Ram, Assistant Professor  
Mr. B. Divakar, Assistant Professor  
Mr. K. Naveen, Assistant Professor  
Mrs. S. Yamini, Assistant Professor  
Mrs. D. Sathya Devi, Assistant Professor



**MS. VENKATA PRASAD**  
Expert & Member for  
Technology Organization



**DR. J. BALU RAMAN**  
Jm. In-charge  
SISTEM, Duta



**DR. SELVA JYOTHI**  
Expert from IIT D  
&M, Chennai



**DR. S. RAJA**  
Expert from IIT D  
&M, Chennai



## DEPT. OF ELECTRICAL & ELECTRONICS ENGINEERING

### 3-DAY HYBRID WORKSHOP EV - TECHNOLOGY - HANDS ON EXPERIENCE

December 21 - 23, 2022

In association with



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Grade | QS 1 - Gauge Certified



### CONTACT US

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Coordinator

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## ABOUT EEE

The Department of Electrical and Electronics Engineering was formed in the year 2006. The department has started various programmes with an initial intake of 3 Years BT in the year 2008, B.Tech. in AI in the year 2010, M.Tech. in AI in the year 2012, M.Tech. in AI in the year 2014, M.Tech. in AI in the year 2016, M.Tech. in AI in the year 2018. The department has qualified teaching staff with 2 Ph.Ds and 3 M.Tech. The faculty members are involved in research activities and published/proposed papers in national and international journals and conferences. The department of Electrical and Electronics Engineering encompasses many technologies such as power systems, electrical machines, control systems, electromagnetic theory, and computer networks employed in all these areas, which have been among the fastest growing and most challenging technologies that enable the development of the modern society. The department conducts various projects under the departmental activities called as NPQAs such as Workshop, Technical Training, Guest Lectures and seminar by experts from industry and academic background for in-depth knowledge appreciation of staff and students. We continue to play a leading role in nurturing which leads to research, creating innovative and effective professional graduate community which would envision and provide continuous learning. The growth and progress of modern and large scale industrial depend upon the expertise provided by the discipline. With rapid industrial growth in the country, the requirement of electrical engineers has tremendously increased in power sector and industries in private, PSU and Government companies. It resulted in opening of numerous opportunities for graduate Electrical Engineers.

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## ABOUT NSRIT

Kadapa Sontyanarayana Raja Institute of Technology (Formerly known as VITS College of Engineering) was established in the year 2006 by Sri Venkatesa Sontyanarayana Educational Society. NSRIT offers quality education and technical competencies on the strong foundation of values, ethics and rich culture to the students across the country and beyond. NSRIT attempts to integrate classroom learning with industry exposure to ensure the application of knowledge during the course of study itself. The objective is to prepare young students to act as leaders for the promotion of the economic and industrial growth of the country and to play a creative role in society. We focus on acquiring skills on existing & emerging technologies to our students. Quality research in the areas of science and technology is given considerable importance here. Our major strength comes by forging strong industry-academic linkage. The institute encourages freedom of thought, initiatives, ideas and encourages growth and also encourages human values and concepts for the environment and society.

## ABOUT WORKSHOP

A three-day Workshop on the topic "Electric Vehicle Technologies - Hands on Experience" is scheduled to take place on 20-22 December 2022 at Department of EEE, NSRIT, Vijayapattanam through hybrid mode. This workshop is providing a platform for the people from academic and research community to get insights on the recent emerging trends in EVs. The goal of the workshop is to provide a platform for participants to update about current trend areas in Electrical Engineering.

## DELIVERABLES

Evolution of Electric Vehicle (EV), EV Market in India, Battery Technology, BMS, Disassembly and Assembly of EV, EV Test Drive

## NSRIT CREDENTIALS

- Institution is accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade (A1B / 4.0).
- UGC granted the status of autonomy in 2008 and the Institute is under the transition state.
- Tagged the QS I - Gauge 3-Learning Excellence for Academic Dignitaries (E - Level) Certificate from QS with a score of 144 out of 200.
- Recognized under 2 (f) and 12 (b) of UGC Act 1956.
- Institution is rated by popular education magazines like Career 360 and Career Connect and Strong Industry + Institute Linkage.
- Recognized as a nodal centre for Andhra Pradesh State Council for Higher Education (APSCHE).
- Recognized under the scheme PMKVY during 2017 - 2018 & 2019 - 2020.

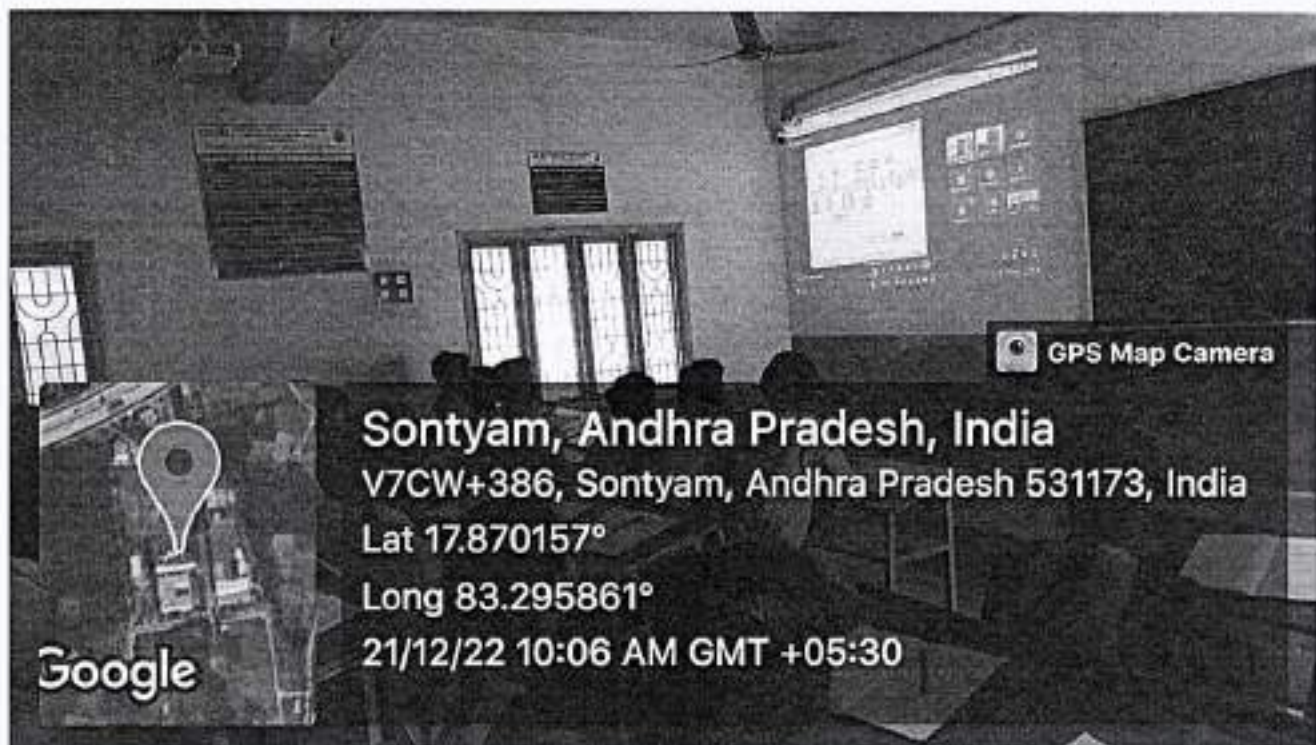


**NSRIT**

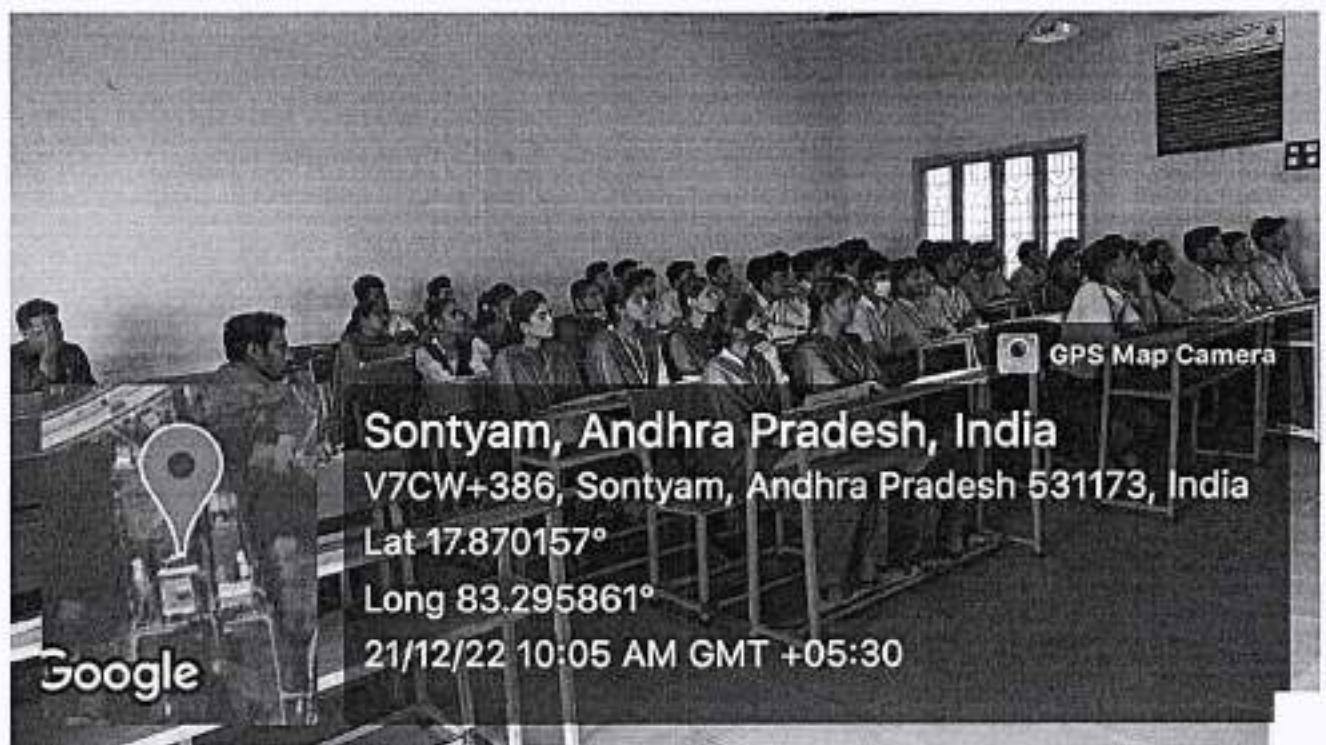
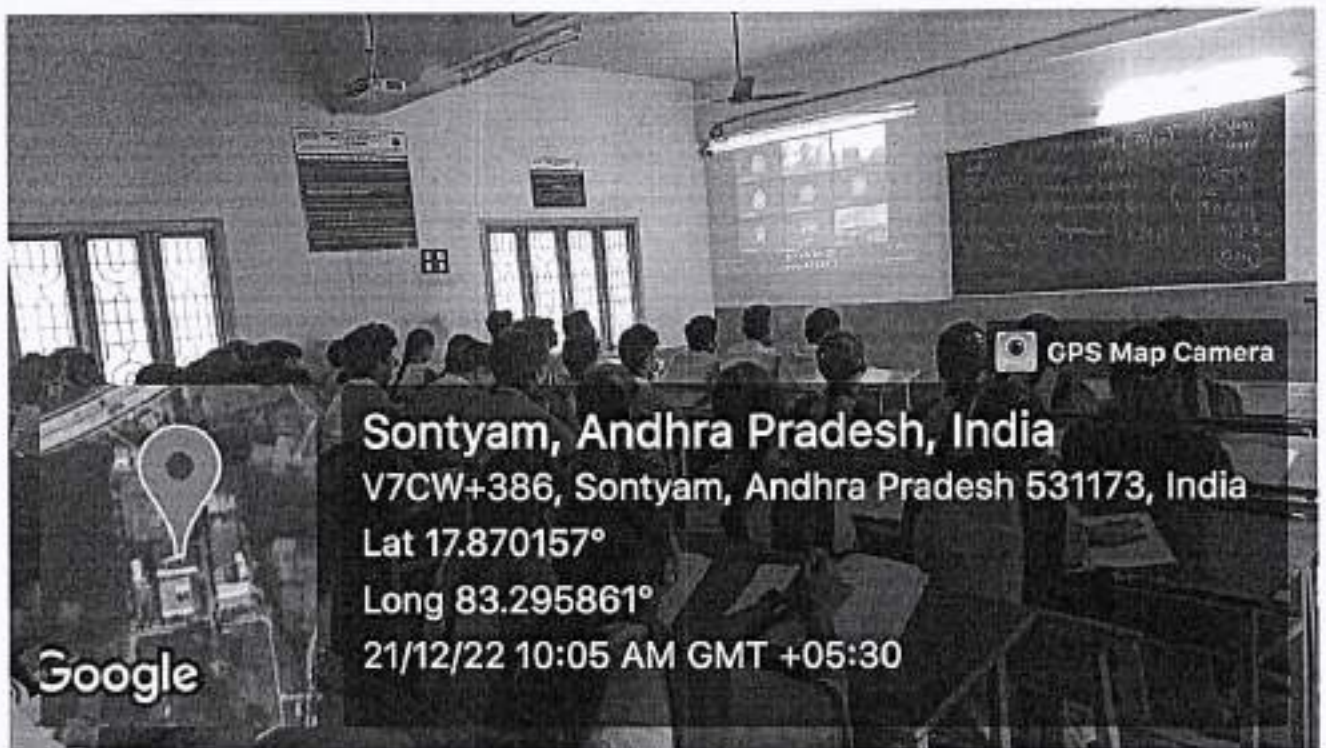
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The event has been conducted for both internal and external participants, 119 internal participants are from EEE II, III & IV year of our college, 13 external participants are from various institutions across India such as Vellore Institute of Technology-Tamil Nadu, Dr. K.N.Modi University- Rajasthan, Institute of Aeronautical Engineering-hyderabad constituting a total of 132 students and 11 faculty members. The Head of the Department, Dr. R S R Krishnam Naidu has attended the event along with all the Department staff. Dr. R. Amaleswari, Assistant Professor has hosted the event. The Head of the Department has addressed the gathering as well as thanked the Resource persons for accepting the invitation for the conduction of the event.

Day 1:21.12.22  
Dr. B. Raja



The session has been started by the resource person. The session consisted of History of Electric Vehicles (EVs). Initially First IC Engine, First gasoline engine, First generation EVs is discussed along with evolution of EV. Next World oil consumption in transportation and other sectors, World oil discovery, remaining reserves, and cumulative consumption was presented. Later an early type of electric motor which created a small model car powered by that motor, 12 kW Electrical machine for a battery-driven electric locomotive, electrical hub motor, 1.5 kW electrical motors in both of its front wheels - Batteries weighing 1.800 kg are explained. Finally, The *Volkswagen Sedric*-self-driving EV, *Toyota Concept-I* future electric car are highlighted.

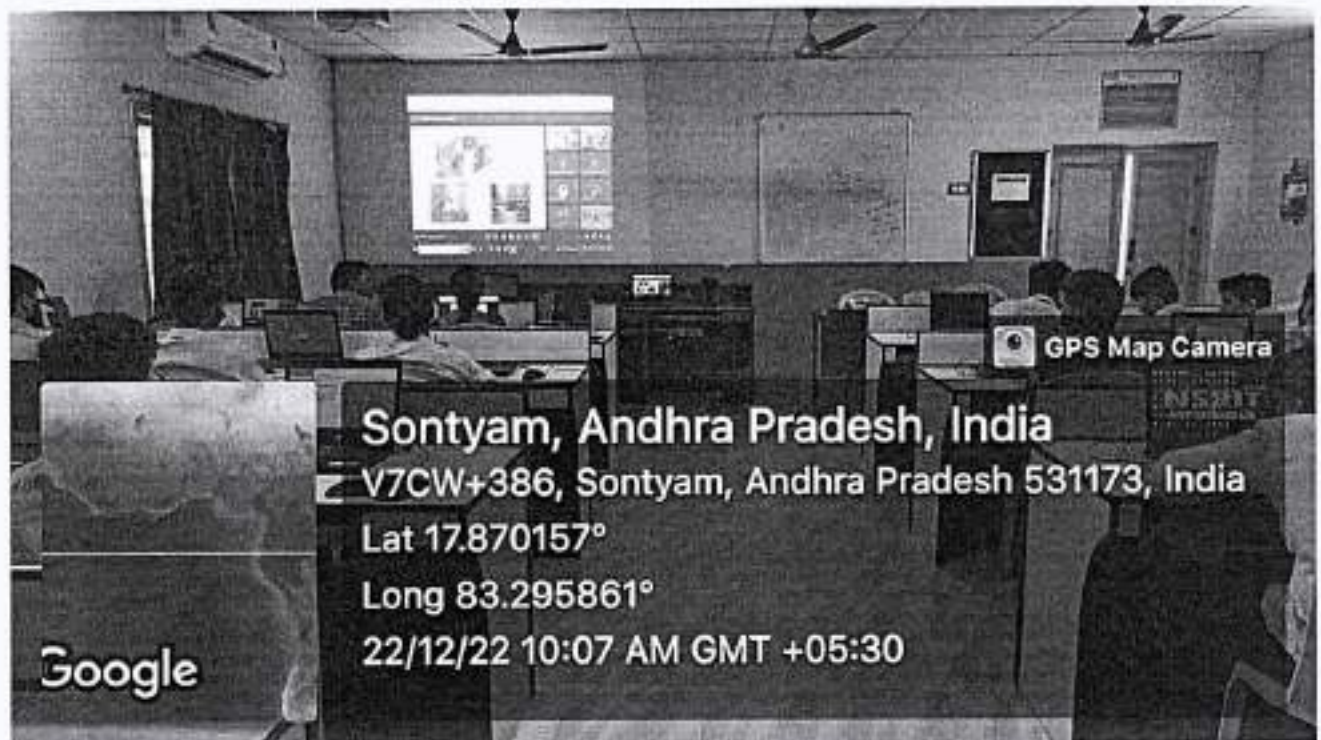


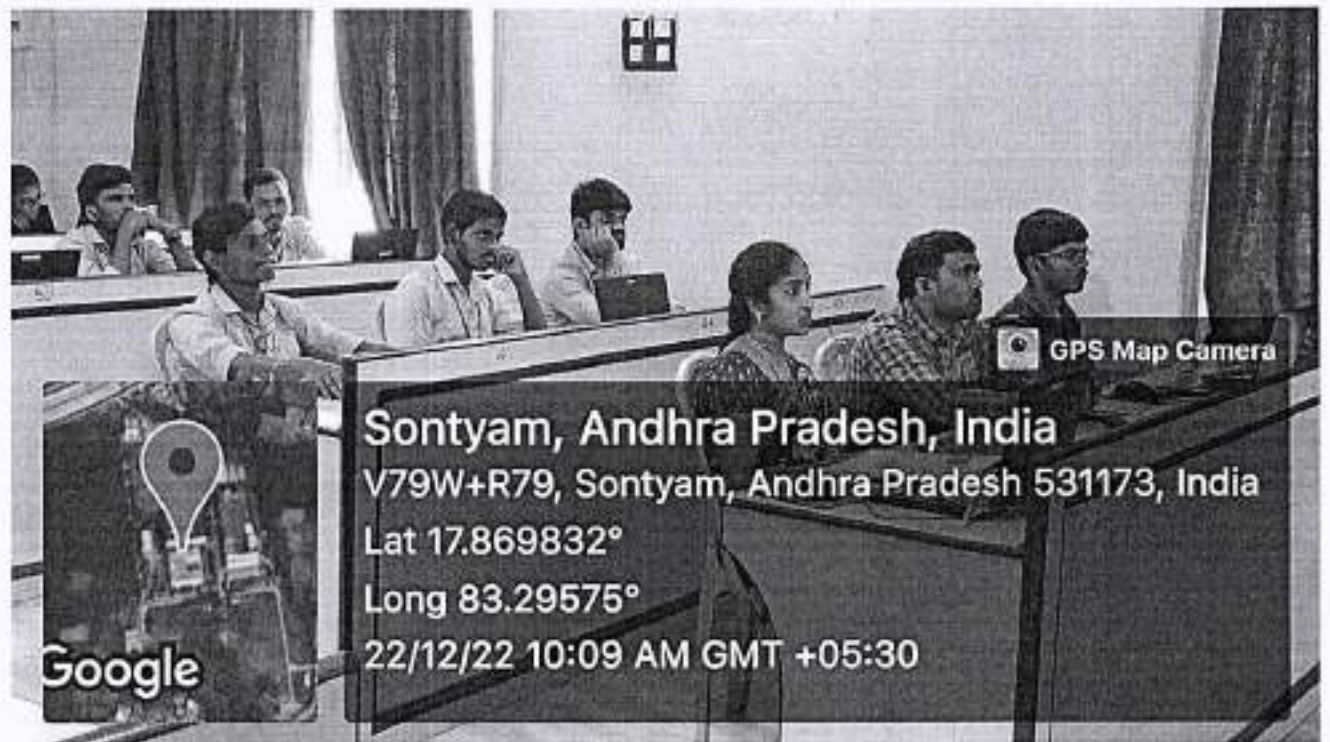


Day 2:22.12.22

Dr. K. Selvajyothi

The session has been started by the resource person. The session consisted of Battery Management System (BMS) of Electric Vehicles (EVs). The Primary functions of the Battery Management System are 1. Battery and user Safety 2. Energy Recovery 3. Battery Balancing 4. Thermal Management 5. communication. Initially Present lithium ion Battery Technology, EV Subsystems, Requirement for BMS is discussed along with Battery Performance -Cell Voltage Under Load, Open-Circuit Voltage (OCV) Model. Next Technical Terms with Batteries, Electrical Equivalent Circuit Model, Pulse Discharge Test, OLV vs DOD -From Data Sheet, Calculation of Circuit Parameters, State Space Model was presented. Later Battery Pack Topology, Battery State estimation, Functionality of BMS In EV, Sensing Voltage, Sensing Current, Sensing Temperature, Temperature Effect, Protection, Charger Control, Communication via CAN bus, Log book function, Cell Balancing, Passive Balancing : Basic Dissipative Resistor, Active Balancing : Single Switched Capacitor, Pwm Controlled Shunting, Boost Shunting, Multi Winding Transformer are explained. Finally BMS-Based cloud-integrated data acquisition Framework for EV technology is highlighted.





Day 2:22.12.22

Dr. J. RaviKumar

The session has been started by the resource person. The session consisted of Motor Controllers for Electric Vehicles (EVs). Initially, EV existence and disappearance is discussed along with resurgence of EV and comparison of EV and ICE. Later EV impact on market, EV components, EV motors and controllers, Types of Power Electronic Converters in EVs are explained. Finally acceleration, deceleration, regenerative braking, vector control of induction motor and importance of harmonic analysis is highlighted.

Dr. J. RaviKumar is presenting

### Case Study

- Utilized a modified Chevy Chevette chassis and body.
- System and Characteristics:
  - Motor - Separately excited DC, 30HP, 2400 rpm.
  - Initial Battery Pack - Ni-Zn, 120V, 735 Lbs.
  - Auxiliary Battery - Ni-Zn, 14V.
  - Motor Drive - Armature DC Chopper using SCR's, Field DC Chopper using BJTs.
  - Top Speed: 60 mph.
  - Range - 60-80 miles.
  - Acceleration - 0-55 mph in 27 sec's.
- This EV was used mainly as a test bed for Ni-Zn batteries.
- Over 35,000 mile of on road testing proved that this EV is sufficiently road worthy.

1:02

Participants: GANTYA POLI RAJ... (G), K... (K), A... (A), B... (B), K B... (K B), Y... (Y)

Dr. J. RaviKumar is presenting

### Types of Power Converters in Electric Vehicles

Commercial electric vehicles may be broadly classified as:

- Battery electric vehicles (BEVs),
- Hybrid electric vehicles (HEVs) and
- Fuel cell vehicles (FCVs).

BEVs are purely electric vehicles (EVs), whereas HEVs combine EVs and internal combustion engines (ICEs). FCVs use power from both the battery and fuel cell stack.

The different configurations of power supply show that at least one DC/DC converter is necessary to interface the FC, the battery, or the supercapacitors module to the DC-link.

1:02

Participants: GANTYA POLI RAJ... (G), K... (K), A... (A), B... (B), B D... (B D), Y... (Y)

**Day 3: 23.12.22**  
**Mr. Venkat Reddy**

The session has been started by the resource person. The session consisted of practical exposure to 2 wheeler Electric Vehicle (EV). Initially, disassembling of EV outer casing parts, detaching of electronic components is discussed along with Disassembling & analysis of mechanical parts of EV in the morning session followed by lunch to all participants. Later in the afternoon, study on harness wiring connections, study on battery and charger are explained. Disassembling & assembling of Charger unit, total assembling of EV was done. Finally test drive on assembled EV is conducted followed by general discussion and queries.







The session has been concluded by Vote of Thanks by Dr. R. Amaleswari, Assistant Professor by thanking the Resource person and the Head of Department for conducting such a resourceful event. This hybrid event is an initiative to have more such fruitful sessions in the future.

The session was ended with National Anthem.

**HOD - EEE**

**(Dr. R S R Krishnam Naidu)**

**DIRECTOR**

**(Dr. J. RAJA MURUGADOSS)**

## BRIEF PROFILE



**Dr. B Raja** received B. E degree in mechanical engineering from University of Madras in the year 1997, Chennai, India, M.E. degree in Refrigeration and Air conditioning and Ph.D. degree in Boiling Heat Transfer from College of Engg, Gulndy, Anna University in 2001 and 2008 respectively. He is specialized in experimental and

computational thermal-fluid sciences. Now he is Associate Professor in department of Mechanical Engineering, IIITD&M (Indian Institute of Information Technology, Design and Manufacturing) Kancheepuram, Chennai (from 2009 till date). Previously, he was with Kirloskar Copeland Limited, Karad, TCS-GE, Bangalore, GE-EACoE, Bangalore and GE Cincinnati, USA.

### Honors and Awards

- Vice President – ESSI
- Editor – ESSI newsletter
- TVS – Empaneled Trainer – 2020 – Short Term Course on Design Thinking
- Best paper award – 2009 – IIT Madras NCRAC2009 Conference
- Best project of the month award- 2003. (at EACoE, Bangalore)
- Hats off award for Gear Box - CFD project - 2003. (at EACoE, Bangalore)
- Green Belt certification – 2003 (at EACoE, Bangalore)
- GE Shares award : Stock option grant certificate – 2002 (at EACoE, Bangalore)
- Green Belt Certified for "Development of Process map for Free Surface Flow Analyses." (at EACoE, Bangalore)
- CFD analysis work was published in GE global website

He received 45lakhs funding from **DST – SERB and Institute seed fund** for 3 projects and completed. Currently he is working on Consortium and consultancy (2) projects with a funding of 52.5 lakhs.

He is member of IEEE, ISHRAE and Vice president of ESSI (Energy Science Society of India). He has a patent, co-authored 2 books, 37 Journal and 20 conference Publications. His research interests include Enhanced heat transfer, Thermal measurements, Electronic cooling systems, Food Processing Techniques and Design, New Product Development, Energy Storage Devices.

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Date: 15-03-2023 to 17-03-2023

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING****Report on "3 day workshop on "Application of Arduino & ESP 32 Micro Controller in  
Multidisciplinary Engineering"**

The Department of Electrical & Electronics Engineering, Nadimpalli Satyanarayana Raju Institute of Technology (Autonomous) has conducted a "3 day hybrid workshop on Applications of Arduino & ESP 32 Micro Controller in Multidisciplinary Engineering" from 15<sup>th</sup> - 17<sup>th</sup> March 2023 at Block - I, CP Lab. The resource persons were Mr. M. Satish / Tierra Automation.

**Resource Person : Tierra Automation****Profile:**

Tierra Automation is a leading technology company that specializes in providing innovative IoT, Industrial Automation, and Robotics solutions. Established in 2019, our company has successfully completed 14 industrial projects, 500+ security projects, and trained over 900 students in these technologies.



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**CONVENOR**  
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**MEMBERS**  
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Mr. P. Mahesh, Assistant Professor (EEE)  
Mrs. V. Usha Rani, Assistant Professor (EEE)  
Mr. A. Balaji Raja Ram, Assistant Professor (EEE)  
Mr. B. Divakar, Assistant Professor (EEE)  
Mrs. S. Yamini, Assistant Professor (EEE)  
Mr. K. Navareen, Assistant Professor (EEE)  
Mrs. D. Sahitya Devi, Assistant Professor (EEE)  
Dr. R. Amalawari, Assistant Professor (EEE)



**DEPT. OF ELECTRICAL & ELECTRONICS  
ENGINEERING**

**3- DAY'S WORKSHOP ON  
"APPLICATION OF ARDUINO &  
ESP32 IN MULTIDISCIPLINARY  
ENGINEERING"**

FROM MARCH 15 - 17, 2023  
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Founder & CEO  
Tierra Automation



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**Contact Us**

Faculty Co-ordinator: Dr. R. Amalawari Asst. Prof of (EEE) Amalawari@nsrit.ac.in 08844480614	Student Co-ordinator: K. Uma Maheswar 20nufa0239@nsrit.edu.in 9382828892
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Nadimpalli Satyanarayana Raju Institute of  
Technology (NSRIT),  
Satyanarayana Hills, Vokkaluram, AP



## ABOUT EEE

The Department of Electrical and Electronic Engineering was formed in the year 2006. The department has started several programs within an aim of to teach in the year 2008 (B.Tech) and in the year 2010, M.Tech. To increase the quality of education and to meet the needs of the industry, the department has started teaching staff with M.Tech and Ph.D. degrees. The faculty members are involved in research activities and publishing research papers in national and international journals and conferences. The department of Electrical and Electronic Engineering encompasses many technologies such as power systems, electrical machines, control systems, electromagnetics, Energy and sustainable sources, employed in all these areas, which have been among the fastest growing and most challenging technologies that enable the development of a modern society. The department conducts various projects under the departmental banner called as ATRAVA such as Robotics, Renewable Energy, Smart Systems and Sensor Systems. Free Industry and Academic background to impart knowledge acquisition of staff and students, which make us play a leading role in our discipline since we are focused on creating innovative and effective professional graduate community which would empower and provide continuous learning. The growth and progress of Indian and large scale industries, depend upon the expertise provided by the specialists. With rapid industrial growth in the country the demand of electrical engineers has tremendously increased in power sector and industries in general. Power and Government organizations, it results in opening of more than opportunities to graduate Electrical Engineers.

## REGISTRATION & PAYMENT

REGISTER HERE



PAY HERE



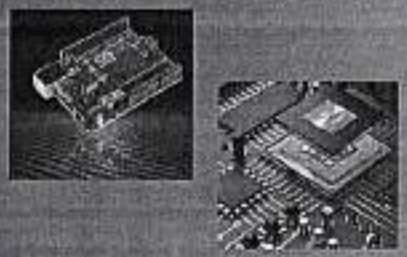
## ABOUT NSRIT

Madhupati Satyanarayana Jaju Institute of Technology formerly known as VITS College of Engineering was established in the year 2006 by five Veda Veda Satyanarayana Educational Society. NSRIT offers quality education and technical competence on the strong foundation of values, ideas and new culture to the students across the country and beyond. NSRIT attempts to integrate classroom learning with industry exposure to ensure the application of knowledge during the course of study itself. The objective is to prepare young students to act as leaders for the promotion of the economic and industrial growth of the country and to play a creative role in society. We focus on imparting skills on cutting edge technologies to our students. Quality research in the areas of science and technology is given considerable importance here. Our major strength comes by forging strong industry-academic linkage. The Institute caters to freedom of thought, cultivates vision and encourages growth and also inculcates human values and concern for the environment and society.

## ABOUT WORKSHOP

A three-day workshop on the topic "Application of Arduino & ESP32 in multidisciplinary engineering" is scheduled to take place on 15-17 March 2023 at Department of EEE, NSRIT, Warangal. Through this workshop, students will gain a foundational understanding of electronics, sensors, modules, development boards, IoT and their real-time applications. Additionally, they will become familiar with various modules such as relay, Bluetooth, RF, Wi-Fi, GSM, GPS and learn how to work with development boards like Arduino and ESP32. By the end of the workshop, students will gain practical experience in coding and building real-time projects using Arduino and ESP32.

NSRIT  
AUTONOMOUS  
WWW.NSRIT.EDU.IN



## NSRIT CREDENTIALS

- Institution is accredited by National Assessment and Accreditation Council (NAAC) with 'A' grade (2014-2016)
- UGC granted the status of a deemed to be university
- Institution under the Ministry of Health
- Ranked the 15th among Engineering Colleges for Academic Excellence - 2022 (with a score of 144 out of 150)
- Recognized under 2 (ii) and 10 (a) of UGC Act 1956
- Institution rated by premier education magazines like Career 360 and Career Guidance and Strong Industry Institute linkage Recognition as a model center for Quality Program
- State Council for Higher Education (SCHE) Recognized under the scheme PMUET during 2017-2018 & 2021-2024

The event has been conducted for internal participants. 90 internal participants are from EEE II & III year of our college. The Head of the Department, Dr. R S R Krishnam Naidu has attended the event along with all the Department staff. Dr. R. Amalawari, Assistant Professor has hosted the event. The Head of the Department has addressed the gathering as well as thanked the Resource persons for accepting the invitation for the conduction of the event.

## Day 1:15-03-23



On this day, the basic concepts are covered such as

### What is EEE ?

There are Electrical as well as Electronic devices are present in our daily life surroundings.

For example : Electrical equipment like Fan, Air Conditioner, Light, TV etc.,

Electronic Devices like Mobile, laptop, Smart Watch etc.,

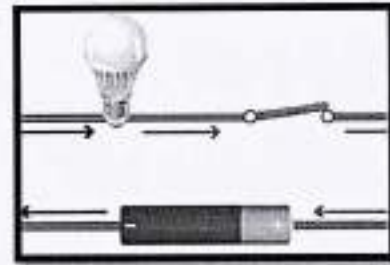
Electrical equipment requires 230V ac whereas electronic devices need 30V dc most cases.

## Voltage, Current & Resistance

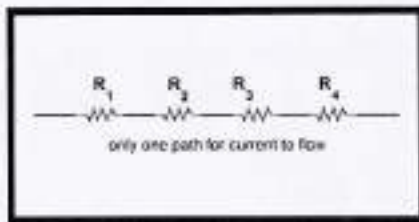
**Voltage:** The difference between two points i.e., between the higher potential & the lower potential

**Current:** Rate of flow of charge or by other means as something which opposes the flow of electrons.

**Resistance:** Resists the flow of current.



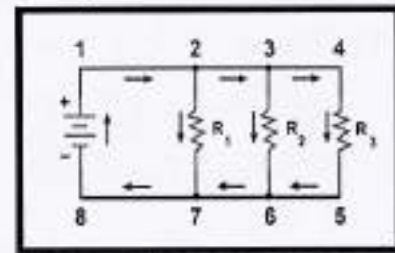
## Series & Parallel Circuits



In **Series** Circuit the electrical components are connected end-to-end in a line.

**Parallel Circuit:**

In parallel circuit the switch is connected in series with the whole circuit which are connected in parallel.



Example: House wiring

**Active Components:** Acts as a power source and deliver power to the circuit. Eg: Voltage & Current sources

**Passive Components**

It only consumes power. Eg: Resistor, Capacitor

## Sensors

**Sensor:** Sensor is a device which measures any physical quantity and converts it into electrical quantity.

**Types of Sensors:**

Analog and Digital Sensors

### Different Sensors

Temperature sensor

Gas sensor

Humidity Sensor

Tilt sensor

Flow & level sensor

Soil moisture sensor

Color sensor

Ultrasonic sensor

Pressure sensor

Proximity sensor

PIR sensor

Infra Ray sensor

Touch sensor

Light sensor

Alcohol sensor

### Actuator

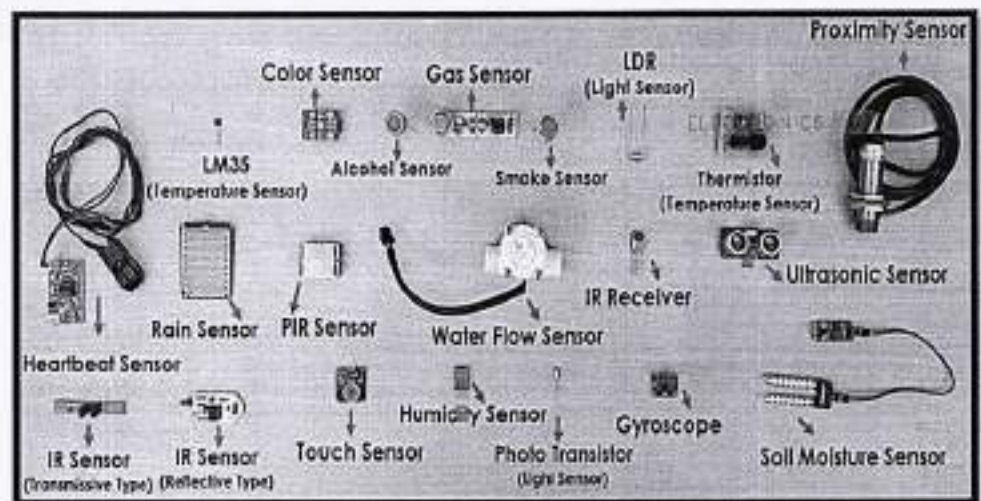
Converting electrical signal into a physical movement

### Different Actuators

Motor

Relay Module

Radio Frequency



Types of Actuators

### Electrical actuators

- Electric motors
- DC servomotors
- AC motors
- Stepper motors
- Solenoids

### Hydraulic actuators

- Use hydraulic fluid to amplify the control command signal

### Pneumatic actuators

- Use compressed air as the driving force



## Wireless Communication Devices

Radio Frequency

GSM

GPS

Bluetooth

Wi - Fi

Li - Fi

## Micro Controller

Arduino

## Digital Pins

Acts as both input and output pins.

It consists of PWM pins for analog purpose.

## Analog Pins

Only acts as the input pins

## Tinkercad

Tinkercad is a free web app for 3D design, electronics and coding.

Signup & Login

## Sensor terminals

For sensors mostly any sensor is having 3 terminals and those are power, signal, ground.

## Analog Input

### Potentiometer

Observing the analog values on the serial monitor by giving the input through the Arduino board (analog pin) by using the potentiometer.

### Temperature Sensor

Observing the analog values on the serial monitor by varying the temperature from minimum to maximum.

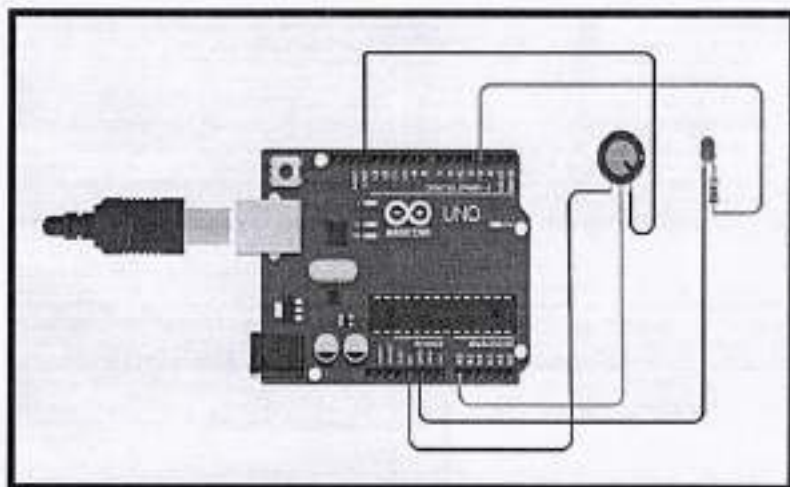
### Digital Input

PIR Sensor is used and its output is connected as input to the digital pin of the Arduino and necessary observations are noted which are appeared on the serial monitor.

### Digital Output

An LED is connected to the digital pin and the necessary code is written in the code section for controlling the LED using digitalWrite in order make it HIGH or LOW.

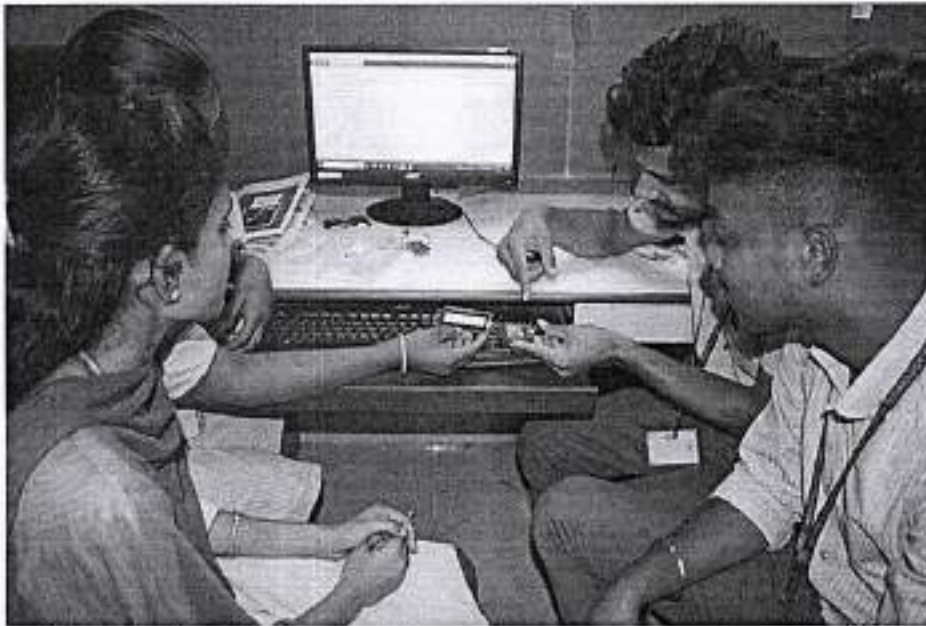
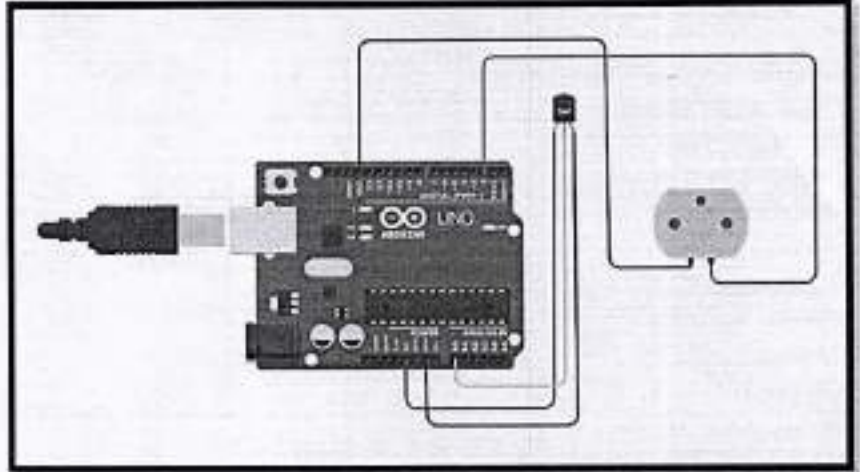
### Analog Input Digital Output



Here, the potentiometer is connected as analog input and at the digital output pin LED is connected. A resistance is connected to the LED in order to limit the current.

**Day 2:16-03-23**

**On this day, the following projects are designed.**



**Air Conditioner Control using Temperature Sensor**

Here air conditioner's motor is connected at digital output pin and temperature sensor is given as input to the analog pin.

Here if condition is used to turn ON the AC after exceeding the certain temperature limit.



**Air Conditioner Control using PIR Sensor**

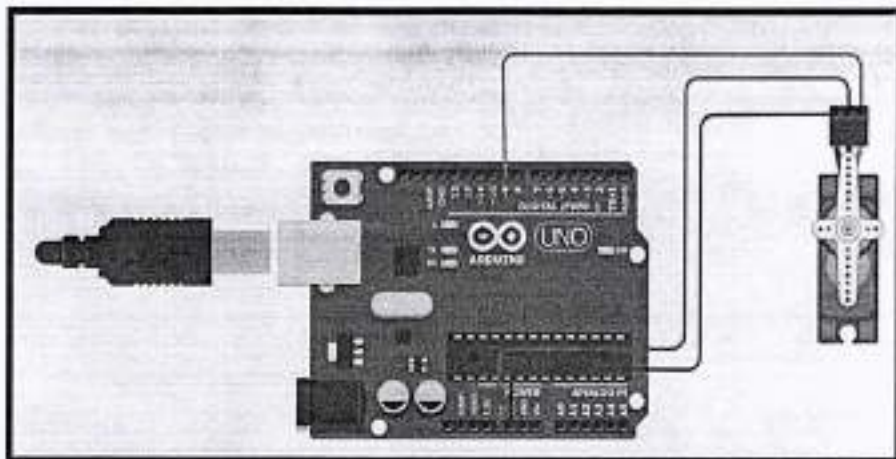
Here AC is turned ON after detecting the motion at the surroundings.

### Servo Motor

Servo Motor is limited to only 180 deg rotation and the rotation speed can be declared using the delay().

### Applications of Servo motor:

Automatic door openers  
Elevators  
Positioning  
Door openings



### Arduino IDE(Integrated Development Environment)

In the beginning stage, by using help option and Built-in examples available in Arduino IDE it is very much easier to learn Arduino coding.

While interfacing the Arduino or ESP 32 we have to select the board name and port.

For ESP 32, install ESP 32 from the library and choose the ESP32 Devkit as board and COM3 as port.

### Comparison between ESP 32 and Arduino

#### ESP 32 Module

CPU: Tensilica Xtensa LX6 microprocessor @ 160 or 240 MHz (we can choose either 160 or 240)

ESP32 supports a data rate of up to 150 Mbps (Internet speed)

ESP 32 Module was developed by Espressif Systems.

It has inbuilt dual Wi-Fi and Bluetooth support.

It has full TCP/IP support for full stack internet connection.

#### Arduino

CPU: Atmel

AVR (8-bit)

16 MHz

frequency speed

LCD(Liquid Crystal Display)

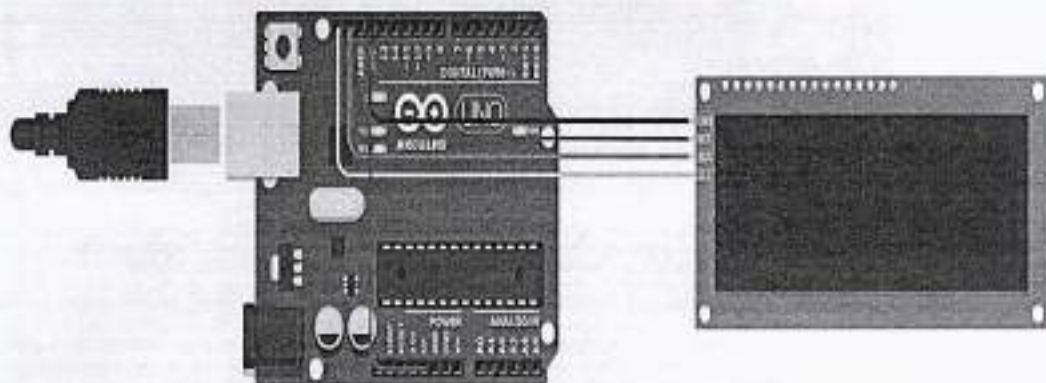
There are

general LCD

and I2C display

Here we are

using the I2C



display

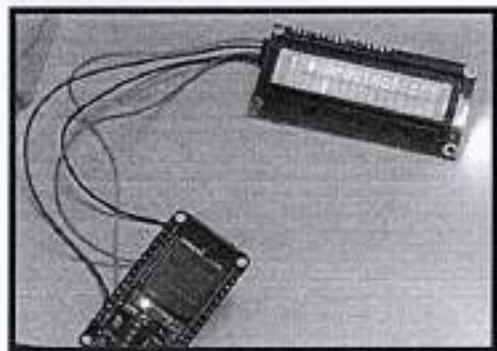
### LCD pin out

Available pins are VCC, GND, SDA, SCL

In the same way as above connections it is connected to the ESP 32 module.

The names or any sentences can be displayed on LCD on the particular row and columns by using the setCursor function.

Necessary emoji's can be displayed on the LCD by using the I2C display examples i.e., Customchars and CustomCharacters.



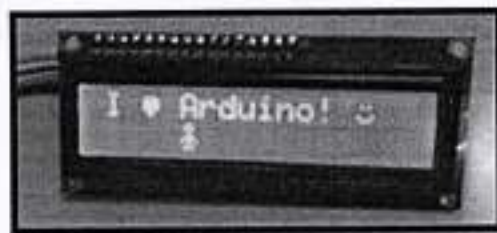
### Using ESP 32 Module

Interfacing IR Sensor

Interfacing LCD I2C Display

Interfacing IR Sensor & LCD I2C Display

Combination of IR Sensor, LCD & Relay Module



### Interfacing IR Sensor

The 3 pins (VCC, GND, Out) of IR Sensor is connected to the ESP32 (Vin, Gnd,D2).

Here the built-in LED is connected internally to the D2 pin.

An if condition is used i.e., the LED turns ON whenever it detects any object near to it otherwise it turns OFF.

### Interfacing LCD I2C Display

Here the 4 pins (VCC,GND,SDA,SCL) of LCD are connected to the ESP32

(Vin,GND,GPIOD21,GPIOD22) respectively.

After writing the software code in Arduino IDE i.e., in such a way that the LCD displays the given names in the lcd.print function.

After uploading the code the given names are displayed on the LCD.

### Interfacing IR Sensor & LCD I2C Display

Here the necessary connections are made as above and the slight change in the Arduino IDE code is to display the given name on the LCD display whenever IR Sensor detects any object around it.

### Day 3:17-03-23

**The interfacing of components is learned on the last day and lunch is provided for all participants.**

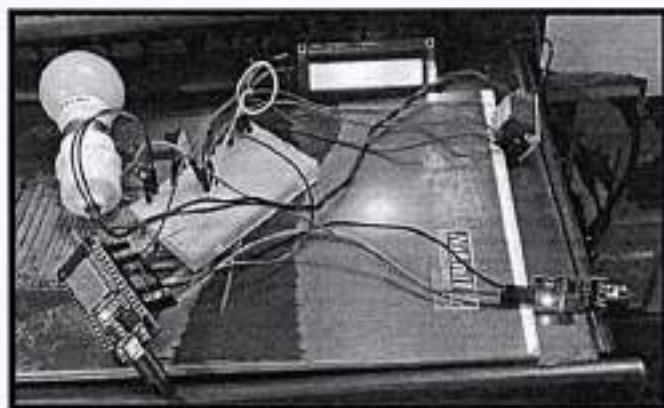
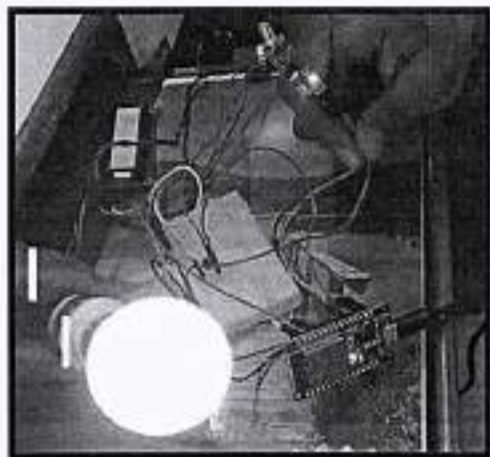
### Combination of IR Sensor, LCD & Relay Module

The relay module pins (VCC, Signal, GND) are connected to the ESP32 and in between these a transistor is connected, to boost up the signal in order to the make relay to get enough power supply. The slight change in the IR sensor connections are to connect the VCC of it to the 3V3 pin of ESP32.

To the relay module an AC bulb is connected i.e., we can turn on the AC load by using this relay module.

Here the overall operation is that whenever the IR sensor detects any object around LCD displays the given name and AC bulb turns ON immediately.

For example, if a person enters the room then LCD displays as "PERSON ENTERED THE ROOM" and the relay operates so the bulb turns ON for an indication.







The session has been concluded by Certificate Distribution and Vote of thanks by Dr. R. Amaleswari, Assistant Professor by thanking the Resource person and the Head of Department for conducting such a resourceful event. The session was completely hands -on and students gained more knowledge.

The session was ended with National Anthem.

  
HOD EEE

(Dr. R S R Krishnam Naidu)



26	T. SAI KUMR	Building a road using civil 3D	42 hours	Infosys Springboard
27	V. LOKESH	Building a road using civil 3D	42 hours	Infosys Springboard
28	V. ANIL	Building a road using civil 3D	42 hours	Infosys Springboard
29	K. VENU	Building a road using civil 3D	42 hours	Infosys Springboard



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Bala raja Narendra shankar Ayilada**

for successfully completing the course

**Building a Road using Civil 3D**

on Thursday, October 27th 2022

**Infosys | Springboard**

*Congratulations! You make us proud!*



Issued on Friday, October 28th 2022  
This certificate can be verified by scanning the QR code at <https://verify.springboard.com>

  
Thirumala Anshu  
Senior Vice President and Head  
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Infosys Limited



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The certificate is awarded to

**Ballanki Manasa**

for successfully completing the course

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on Thursday, October 27th 2022

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The certificate is awarded to

**kunuku kusumakumari**

for successfully completing the course

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Ministry of Electronics & Information Technology,  
Government of India



# Cyber Security Pledge Certificate

Certificate No : ISEA/PDG/STUDENT/051352

This is to certify that Modi Anatarao has taken the

Cyber Security Pledge for Students

and will remain committed to be cyber aware and alert in safeguarding self and others against possible cyber crimes or frauds in the digital space, by following secured and hygienic online practices.

Shri . Ch A S Murty,  
Coordinator, ISEA PMU

Information Security Education and Awareness Phase - II



Issued Date : 12-04-2023



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**KUPPILI SUNIL KUMAR**  
for successfully completing the course

## Big Data Analytics with Python

with a consolidated score of **60** %

Online Assignments	23.69/25	Proctored Exam	36.21/75
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Total number of candidates certified in this course: **6573**

Prof. Jayanta Mukhopadhyay  
Dean Outreach  
IIT Kharagpur

Jan-Apr 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS53S24421829

To validate

check scores: <https://nptel.ac.in/noc>

### Department of Electronics and Communication Engineering

5.1.3 - The following Capacity Development and Skill Enhancement activities are organized for improving students' capabilities during the Year 2022-2023

Name of the capability enhancement scheme	Date of Implementation	Number of students Enrolled	Agencies involved
TechSpardha 2023	03-03-2023 to 04-03-2023	250	NSRIT
IoT workshop with Arduino	12-09-2022 to 14-09-2022	100	Teck Team Solutions, Visakhapatnam
Technical Paper Writing	30-08-2022	120	Dr.Laxmi Naryana Thalluri, Associate Professor, Department of ECE, Andhra Loyola Institute of Engineering and Technology, Vijayawada, AP, India
Personal Counselling	22-07-2023	376	Mentors of the Concerned Department

  
**HOD-ECE** Department  
Dept. of Electronics & Communication Engg.  
N.S. Raju Institute of Technology  
Sontyari, Visakhapatnam - 531172



**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

(Approved by AICTE, New Delhi || Affiliated to JNTUK, Kakinada || ISO 9001:2008 Certified Institute)

Recognized under 2(f) of the UGC Act 1956 || Accredited by NAAC with 'A' Grade (3.10/4.00)

SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, web: www.nsr.it.edu.in



## Report on

### A Two-day National Level Project Expo 'TechSpardha 2023'

**Title:** TechSpardha 2023

**Category:** Project Expo cum paper presentation

**Date:** 03-03-2023 to 04-03-2023 (2 days)

**No. of Participants:** 350+

**Project Teams:** 50

**Paper presentation teams:** 15

**Poster Presentation teams:** 20

**Organizers:** Department of ECE, NSRIT

Sontyam, Visakhapatnam-531173

**Mode:** Offline

**Objective:**

The TechSpardha 2023 provided a platform to the students to showcase their projects to people from academic and engineer community. The major goal of this event to provide a juncture to the students to discuss their ideas and project work through various tracks like hardware project expo, paper and poster presentation. Students from different colleges have been participated in the event to showcase their projects and presented their technical papers in the form of computer and poster presentation. The various real life problems were addresses by students in terms of projects based on IoT, latest wireless sensors networks, medical applications and related to power transmission.

**NSRIT** **NAAC**  
Autonomous **A** GRADE

## TechSpardha 2023

A Two-day National Level Project Expo

**EVENTS & REGISTRATION FEE** **PRIZE WORTH**

Project Display: Rs. 300 (Max. 2)  
Paper Presentation: Rs. 200 (Max. 2)  
Poster Presentation: Rs. 300 (Max. 2)

**₹ 20000**

**CONTACT**  
Mr. Sankarj (Mr. Registrar)  
Mr. Lakshmi Prasad

+91 97987 58602  
+91 99886 99933  
+91 99851 72219

Department of Electronics and Communication Engineering  
Nadimpalli Satyanarayana Raju Institute of Technology  
Sontyam-531173, Visakhapatnam, Andhra Pradesh

### **About TechSpardha 2023:**

The Department of Electronics and Communication, NSRIT Visakhapatnam has prearranged a two-day project expo based on the innovation ideas in the forms of hardware projects to address real life problems 'TechSpardha 2023' from March 3, 2022 to March 4, 2023 through offline mode.

This expo was in association with IETE, India. The primary objective of organizing this project expo to provide a good platform and unbridle the latent potential of the students by showcasing their projects based on the real life problems whether its related to daily routine of human being, agriculture, medical or power related problems. The prime outcome of this event was the engineering platform which was provided to share their ideas also activities like paper and poster presentation enhances the confidence among the students with genuine feedback from the domain experts.



Hardware prototypes prepared by the students were based on the real problems in the field of agricultural, medical and power areas. The prototypes were based on the IoT, embedded system, Wireless Sensor Network and web technologies. Therefore, it attracted 350+ students from different branches to attend this event. 50 projects were displayed, 15 group have participated in the paper and 20 poster presentation events. In order to motivate students, prizes of worth ₹ 20,000 were distributed to the students under different categories. Department of Electronics and Communication Engineering NSRIT Visakhapatnam always believe in providing these types of

platforms to support student's professional growth and has pulled its resources to organize this two-day event.

### **TechSpardha Summary:**

The dignitaries present in the inauguration ceremony were **Dr. N. Prasada Raju, Secretary NSRIT, Shri N. Kanak Raju, Treasurer, NSRIT and Dr. J. Raja Murugadoss, Director, NSRIT.** The program started with a prayer from **Ms Vaishnavi** and lamp lightening at the ECE Department. All the dignitaries and participants were welcomed by **Dr. B. Siva Prasad, Convener and Head of the ECE Department, NSRIT** gave the welcome address and shared TechSpardha dynamics to all the participants.

**Dr. J. Raja Murugadoss, Director, NSRIT** addressed the participants and welcomed the Chief Guest **Col. Prof. (Dr.) G. S. N. Raju, Vice Chancellor, Centurion University, AP.** The brief introduction of our chief guest was given by **Mrs. E. Manema, Assistant Professor.** He addressed the participants and motivated the Department of ECE for the event. Our chief guest shared some wonderful experiences with the participants related to Science and Engineering virtue. He stressed on the importance of realizing your solution in terms of hardware prototypes so that Lab-to-Land conversion can be materialised. After that participants were addressed by **Dr. N. Prasada Raju, Secretary NSRIT Visakhapatnam.** He gave a motivational speech to the participants and stressed on the importance of interdisciplinary approach to address engineering problems. The inaugural program was attended by the 180 participants from various colleges. The vote of thanks was given by **Mr. Y. Sravana Kumar, Assistant Professor,** he thanked the chief guest for accepting our invitation and gracing the occasion. He also thanked NSRIT management, administration and the participants present in the event. Finally, **Dr. B. Siva Prasad, HoD, Department of ECE** official announces the TechSpardha 2023 and accompanied our dignitaries towards the project expo area.



## Inaugural function at a Glance



### **Day 1:**

The first day of the event was dedicated to the showcasing of the projects based on the hardware. All the projects were displayed in the Department of ECE systematically so that participants can visit all the sites properly. **Dr. B. Siva Prasad, HoD, Department of ECE** escorted our Chief guest and dignitaries to all the projects displayed one by one. The senior faculties of the college **Dr. N.V.S.S Suryanarayana, Dr. R.S.R Krishnam Naidu, Mr. V.V.S.S.R Krishanmurthy, Mrs. M.V.S. Roja Ramani, Mrs. A. Kamalpriya and Mrs. B. Usha Rani** have participated in the evaluation process of all the displayed projects.

### **Day 2:**

The second day of the event was dedicated to the paper and poster presentation. In the first session all the participants have presented a total of 15 papers in front of the evaluators **Dr. K. Ravi Kumar, Professor ECE Department, Dr. Virender Singh, Assistant Professor, ECE Department** ECE seminar hall. The second session on day 2 was dedicated to the poster presentation. More than 20 papers were showcased in the department premises. **Mr.B.Ravichandra, Assistant Professor and Mr. K. Rajasekhar, Assistant Professor** were the evaluators of the poster presentation. At the end of the day valedictory ceremony was organized in the ECE seminar hall.

### **Valedictory Session:**

At the end on day 2, valedictory session was organized. The special guest for this session was **Mr. Dinesh Kumar Hirawat, HMI Engineering services**. In his speech, he specially mentions the role of converting ideas into physical prototyping. In order to motivate student prizes of worth ₹20,000 were given to the students. After evaluation of prototypes-based projects, first prize of worth 5,000 was given to the first winner, ₹2,000 to the second and prize of ₹1,000 to the third winner of the hardware project expo held on day1. Next prize to the winner of paper presentation was given ₹1,000, ₹500 and ₹300 to the first, second and third winner respectively. The last category of award was poster presentation where prizes ₹1,000, ₹500 and ₹300 to the first, second and third winner respectively was given. A special prize of ₹2000 was

given to the project showcased by diploma students for the set up of the prototype beautifully.

**Dr. B. Siva Prasad, Convener & HoD ECE Department** gave the vote of thanks. He recalled each session briefly with special thanks to the Chief guest **Col. Prof. (Dr.) G. S. N. Raju, Vice Chancellor, Centurion University, AP.** He thanked **Secretary, NSRIT Dr. N. Prasada Raju, Treasurer, NSRIT Shri N.Kanak Raju and Director NSRIT Dr. J. Raja Murugadoss.** At the ends, **Dr. B. Siva Prasad** thanked all the ECE department for the success of this event. He also thanked to all the participants for participating in the event with great enthusiasm.

### **Conclusion:**

In this report the complete happenings of the project expo TechSpardha 2023 scheduled from march 3 to march 4, 2023 is discussed briefly. It was a great platform for the participants to share their ideas with engineering communities and was a value addition to their knowledge.

### **Prepared By:**

**Dr. Virender Singh (Coordinator)**

### **Checked & Approved By:**

**Dr. B. Siva Prasad, HOD  
ECE Department  
NSRIT, Visakhapatnam.**

  
Head of the Department  
Dept. of Electronics & Communication Engg.,  
N.S. Raju Institute of Technology  
Sontyarn, Visakhapatnam - 531173

## TechSpardha Schedule

### **Day1:**

10:00 am to 11:00 am Inaugural Ceremony

11:00 am to 4:00 am Hardware project expo

### **Day 2:**

10:00 am to 1:00 pm Paper presentation

1:30 pm to 2:30 pm Poster presentation

3:15 pm to 4:00 pm Valedictory function

## TechSpardha 2023 at a Glance









Estd. 2008.



# NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)



(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUGV, Vizianagaram)

Recognized under Section 2(f) & 12(B) of the UGC Act, 1956 Accredited by NAAC with 'A' Grade

## Department of Electronics and Communication Engineering

<b>Title of the event:</b>	Guest Lecture on "Technical Paper Writing"
<b>Date of the event:</b>	31-07-2023
<b>Name of the coordinator:</b>	Dr. K. Ravi Kumar
<b>Participants:</b>	Students from 3 <sup>rd</sup> year, Department of ECE
<b>Number of participants:</b>	140
<b>Name of the resource person:</b>	Dr. Sunita Mishra, Chief Scientist, CSIR-CSIO, Chandigarh
<b>Name of the Organization:</b>	NSRIT Visakhapatnam
<b>Whether assessment is done:</b>	No
<b>(Yes/No)</b>	
<b>POs addressed:</b>	PO6, PO8, PO10 & PO12

### Mention the courses related to the content:

Bachelor of Technology in ECE

### Objective:

The objective of this Guest Lecture on "Technical Paper Writing" is to create awareness among the students towards technical writing in a systematic way along with proper research methodology. The lecture aimed to provide students with valuable insights into the intricacies of effectively communicating technical research through written papers and to present their technical knowledge through well-structured technical writing.

### Inauguration:

The event started with warm welcome from the Technical Paper Writing Coordinator Dr. K. Ravi Kumar, Professor, Department of ECE and he introduced Dr. B. Siva Prasad, Head of the Department of ECE, NSRIT Visakhapatnam. Dr. B. Siva Prasad welcomed all the participants and introduced the speaker of the day Dr. Sunita Mishra, Chief Scientist, CSIR-CSIO, Chandigarh. Dr. Virender Singh reads the brief profile of Dr. Sunita Mishra and thanks madam to accept our invitation at such a short notice and thanks her for ready to share her experiences from a long journey in the field of Research and Development. During her career she has completed a number of research projects sponsored by DST, CSIR, DIT, DBT and DRDO in the area of agrionics, sensors, semiconductor devices and NIR spectroscopy. She was given Young Scientist fast tenure track project from DST. She was awarded certificate of merit in leadership Development Programme at CSIR, New Delhi. She has published about 80 papers in SCI Journals, Several Book Chapters and 80 papers in conference proceedings. She is life member of semiconductor society of India, Solar Energy Society of India and Material research society of India and the Fellow of the Institution of Electronics and Telecommunication Engineers (IETE).



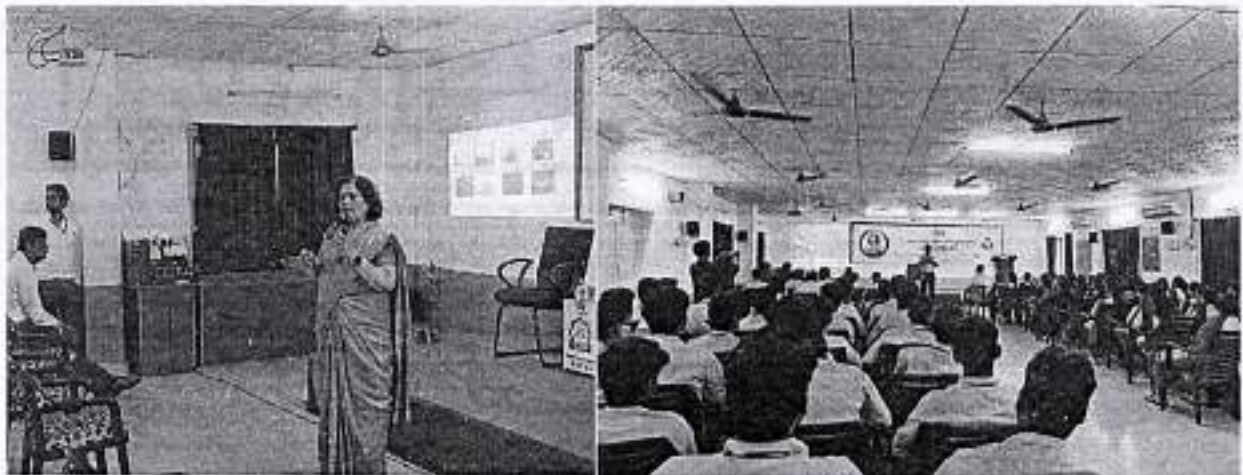
### **Summary of the Lecture:**

Dr. Sunita Mishra started his lecture with the importance of the technical writing and the probable audiences. Technical paper writing plays a crucial role in the broadcasting of research findings and the progress of knowledge in numerous fields. Its import stems from numerous key reasons like Knowledge Propagation, validation & review, documentation of the research, academic & professional recognition and diverse awareness programs. The speaker highlighted the importance of understanding the aim audience and cuture the technical paper to their knowledge level and interests.

Practical tips were provided on structuring the paper coherently, including the significance of a compelling introduction, a clear methodology section, comprehensive results, and a robust discussion and conclusion. Participants learned about the significance of maintaining a logical flow throughout the document. She stressed on the importance of first step i.e., introduction which clearly define the scope and purpose of the technical paper. Introduce the topic, provide necessary background information, and highlight the significance of the subject matter. Second step to conduct a comprehensive analysis of existing literature and research in the field. Evaluate and compare various studies, methodologies, and findings. Identify any gaps or unresolved issues in the current research. Third step to explain the approach taken for reviewing the literature. Describe the criteria used for selecting the papers to be included in the review. Justify the methodology chosen and its relevance to the scope of the technical paper. Next step to present a critical analysis of the selected literature. Compare and contrast different viewpoints and findings. Highlight the strengths and weaknesses of various studies and discuss their implications for the field. Identify any trends or patterns that emerge from the literature review.

Finally summarize the key findings and insights from the literature review. Emphasize the importance of the research and its potential contributions to the field. Discuss any recommendations for future research or areas that require further investigation. After completing the review paper all the reference should be properly cited, it is the part of professional ethics that due credit should be given to the authors. In conclusion, the guest lecture on technical paper writing provided attendees with valuable insights and practical guidance on how to effectively structure, write, and present technical papers. The lecture contributed significantly to enhancing the participants' understanding of the essential components and best practices in the process of technical paper writing.

### **Event at a Glance**



**Prepared by:**

Dr. K. Ravi Kumar, Professor

Department of ECE, NSRIT

**Checked & Approved By:**

Dr. B. Siva Prasad, HOD

ECE Department

NSRIT, Visakhapatnam.

  
Head of the Department  
Dept. of Electronics & Communication Engg.  
N.S. Raju Institute of Technology  
Sontyam, Visakhapatnam - 531173

**Department of Mechanical Engineering**

5.1.3 - The following Capacity Development and Skill Enhancement activities are organized for improving students' capabilities during the Year 2022-2023.

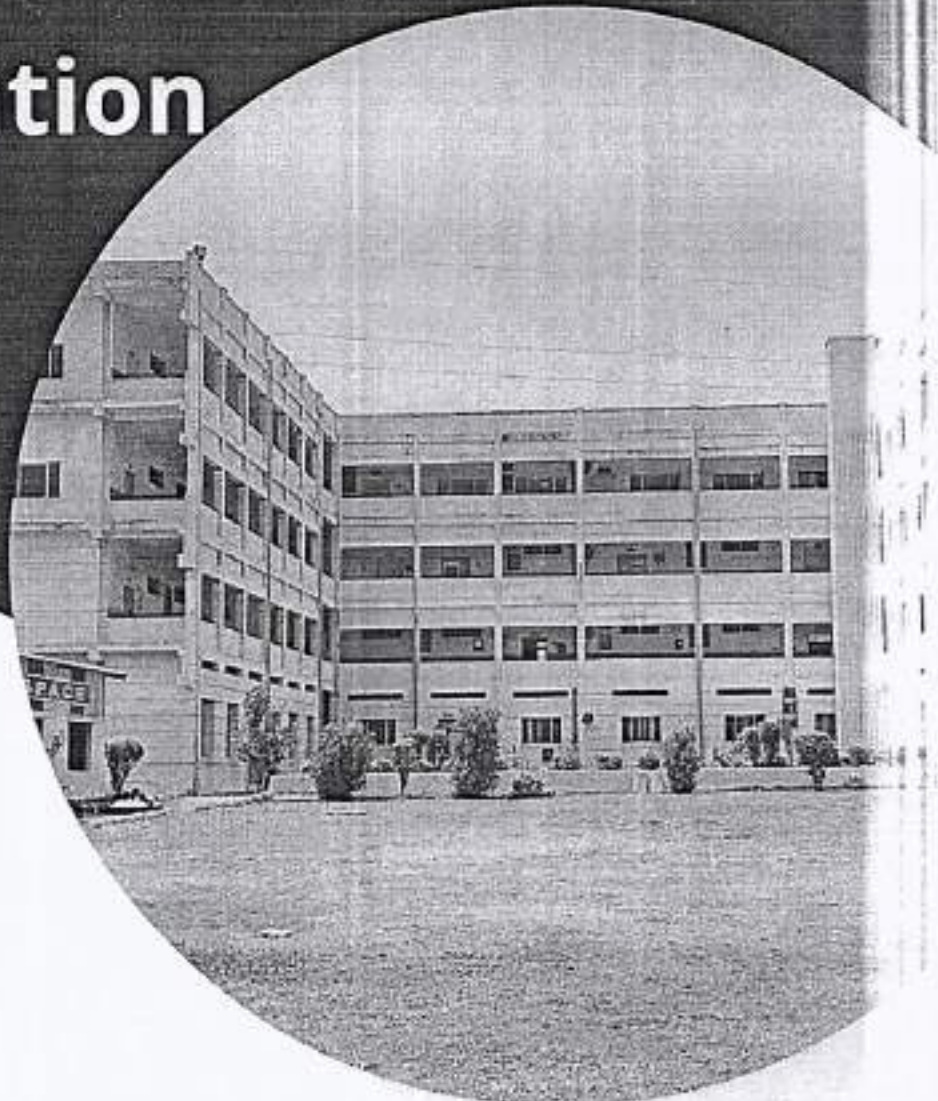
Name of the capability enhancement scheme	Date of implementation	Number of students Enrolled	Agencies involved
MOOCs	19-11-2022	67	Online platform Course era, Infosys spring board, Internshala...etc.)
Workshop on ("2 day workshop on Drone Technology – Hands on Experience")	03-11-2022	89	Yamini Infinity Drone, Visakhapatnam
National Yoga Day	21-06-22	25	NSRIT , NSS Unit
Personal Counseling		245	Mentors of the Concerned Department

  
HOD-ME

Head of Department  
Mechanical Engineering  
N.S. Rajanathan of Technology  
Nadimpalli, Visakhapatnam

# Massive Open Online Courses (MOOCs) Certification

Students of  
Semester - V



## CONTENTS

- Student details
- Certification
- Platform
- PO Mapping

Department of  
Mechanical Engineering

2022 - 2023



[www.nsr.it.edu.in](http://www.nsr.it.edu.in)

### List of Projects and Outcomes Addressed (POs)

No.	Name of the Course	POs Addressed
1	CATIA v5	PO #1, PO #2, PO #3, PO #5, PO #6, PO #9, PO #10, PO #12, PSO #1, PSO #2
2	CAM and Mechanical Design	PO #1, PO #2, PO #3, PO #5, PO #6, PO #9, PO #10, PO #12, PSO #1, PSO #2
3	Programming with Python	PO #1, PO #2, PO #4, PO #5, PO #9, PO #12, PSO #1, PSO #2
4	Databases and SQL	PO #1, PO #2, PO #4, PO #5, PO #9, PO #12, PSO #1, PSO #2
5	Introduction to electric Vehicles	PO #1, PO #5, PO #6, PO #12, PSO #1, PSO #2

### List of Online Certification Courses

No.	Name of the Student	Name of the Course	Duration (Hours)	Learning Platform
1	AYENAMPUDI NITHIN VARMA	CATIA v5	42 hours	Infosys Springboard
2	BANDARU SAGAR	CATIA v5	42 hours	Infosys Springboard
3	CHANDA JAGADEESH KUMAR	CAM and Mechanical Design	40 hours	Coursera
4	DAKETI LEELA SAI KIRAN	CATIA v5	42 hours	Infosys Springboard
5	DARA VIVEK	CATIA v5	42 hours	Infosys Springboard
6	DASARI KARTHIK	CATIA v5	42 hours	Infosys Springboard
7	DASARI SRAVANA LAKSHMI	CATIA v5	42 hours	Infosys Springboard
8	DIVYA PRAKASH KUMAR	CATIA v5	42 hours	Infosys Springboard
9	DOKKARI MOHAN	CATIA v5	42 hours	Infosys Springboard
10	DOPPA ROSHAN SOWRI	CATIA v5	42 hours	Infosys Springboard
11	DUVVI PRANEETH VARDHAN	CATIA v5	42 hours	Infosys Springboard
12	D.V. VENKATA SAI ABHISHEK	CATIA v5	42 hours	Infosys Springboard
13	GONTHINA BHASKAR	CATIA v5	42 hours	Infosys Springboard
14	GORLE JAYA KRISHNA	CATIA v5	42 hours	Infosys Springboard
15	GORLE KUSHAL	CATIA v5	42 hours	Infosys Springboard
16	GORRIPOTU ANIL KUMAR	CATIA v5	42 hours	Infosys Springboard
17	JEERLA LINKHIN KUMAR	CATIA v5	42 hours	Infosys Springboard
18	KOVELAPALLI AJAY KUMAR	CATIA v5	42 hours	Infosys Springboard
19	KILARI JAGAN JEEVAN KUMAR	CATIA v5	42 hours	Infosys Springboard
20	KINCHA SHYAM KRISHNA	CATIA v5	42 hours	Infosys Springboard
21	KODI PRUDHVI RAJ	CATIA v5	42 hours	Infosys Springboard
22	KOKKERLAPATI SUDHEEP VARMA	CATIA v5	42 hours	Infosys Springboard
23	KOLA VENKATA RAO	CATIA v5	42 hours	Infosys Springboard
24	KORADA SAI PRASAD	CATIA v5	42 hours	Infosys Springboard
25	KUTCHARLAPATI CHANDRAMOULI VARMA	Programming with Python	42 hours	Internshala
26	M GEETA SAI PRASAD	CAM and Mechanical Design	40 hours	Coursera
27	MAJJI JOGESH	CATIA v5	42 hours	Infosys Springboard
28	MASADA DIVAKAR	CATIA v5	42 hours	Infosys Springboard
29	MUMMANA DINESH	CATIA v5	42 hours	Infosys Springboard
30	M. YOGENDRA	CATIA v5	42 hours	Infosys Springboard
31	NAKKA NAVEEN	CATIA v5	42 hours	Infosys Springboard
32	NERELLA DURGA PRASAD	CATIA v5	42 hours	Infosys Springboard
33	PALAKOLLU DILLESWARA RAO	CATIA v5	42 hours	Infosys Springboard
34	PENTAKOTA DEVI SIVA PRASAD	CATIA v5	42 hours	Infosys Springboard
35	PILLA NAVEEN	CATIA v5	42 hours	Infosys Springboard

36	PITLA NAVEEN	CATIA v5	42 hours	Infosys Springboard
37	PONTHAPALLI YAJNESWAR	CATIA v5	42 hours	Infosys Springboard
38	RAYAVARAPU SAI KIRAN	Databases and SQL	6 weeks	Coursera
39	RANGASALA ARJUNKUMAR	CATIA v5	42 hours	Infosys Springboard
40	SEELA LAKSHMI CHANDRA EKANTH	CATIA v5	42 hours	Infosys Springboard
41	SIMMA MOHAN KUMAR	CATIA v5	42 hours	Infosys Springboard
42	SIRIPURAPU MANOJ KUMAR	Python for beginners	40 hours	Simplilearn
43	SOURASISH TALUKDER	CATIA v5	42 hours	Infosys Springboard
	TEDLAPU LIKHITH V S G B SARAN	Programming with Python	36 hours	Internshala
44		& Introduction to electric Vehicles	32 hours	& Skill-Lync
45	TEEGALA PRUDHVI GUPTA	CATIA v5	42 hours	Infosys Springboard
46	TIRUMAREDDY RAJESH	Programming with Python	42 hours	Internshala
47	VIJANAGIRI MANI VARA PRASAD	CATIA v5	42 hours	Infosys Springboard
48	YALLA ROHITH	CATIA v5	42 hours	Infosys Springboard
49	YANDRAPU JAGADEESH	CATIA v5	42 hours	Infosys Springboard
50	YEDURU SAMPATH SAI	CATIA v5	42 hours	Infosys Springboard
51	BAKI SANKAR RAO	CATIA v5	42 hours	Infosys Springboard
52	BONELA GANESH	CATIA v5	42 hours	Infosys Springboard
53	BONULA PRABHU PAVAN	CATIA v5	42 hours	Infosys Springboard
54	DODDI UDAY BHASKAR	CATIA v5	42 hours	Infosys Springboard
55	GANAGALLA VEERANAND	CATIA v5	42 hours	Infosys Springboard
56	GANTLA ATCHIUTH	CATIA v5	42 hours	Infosys Springboard
57	GOLAGANI BHANU PRASAD SAI	CATIA v5	42 hours	Infosys Springboard
58	GUGGILAM RAKESH	CATIA v5	42 hours	Infosys Springboard
59	JAGARAPU RAKESH	CATIA v5	42 hours	Infosys Springboard
60	KARRI SAI TEJA	CATIA v5	42 hours	Infosys Springboard
61	KORADA VENKATESH	CATIA v5	42 hours	Infosys Springboard
62	MOHAMMED BASHEERUDDIN	CATIA v5	42 hours	Infosys Springboard
63	PASANABILLI MOHAN	CATIA v5	42 hours	Infosys Springboard
64	PENTAKOTA VAYUNANDA SAI KUMAR	CATIA v5	42 hours	Infosys Springboard
65	PULAMARASETTI GIRIDHAR	CATIA v5	42 hours	Infosys Springboard
66	SARVASUDDI LOKESH	CATIA v5	42 hours	Infosys Springboard
67	SOURAV DAS	CATIA v5	42 hours	Infosys Springboard



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Nithin Varma**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**


on Wednesday, October 26th 2022

**Infosys | Springboard**

*Congratulations! You make us proud!*



Issued on: Wednesday, October 26th 2022  
This certificate can be verified by scanning the QR code at <https://nvr.it.edu/springboard.com>

  
Divumala Achli  
Senior Vice President and Head  
Education, Training and Assessment (ETA)  
Infosys Limited



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**Bandaru Sagar**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Tuesday, November 1st 2022

**Infosys | Springboard**

*Congratulations! You make us proud!*



Issued on: Tuesday, November 1st 2022  
This certificate can be verified by scanning the QR code at <https://nvr.it.edu/springboard.com>

  
Divumala Achli  
Senior Vice President and Head  
Education, Training and Assessment (ETA)  
Infosys Limited



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**DARA VIVEK**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**


on Saturday, October 29th 2022

**Infosys | Springboard**

*Congratulations! You make us proud!*



Issued on: Saturday, October 29th, 2022  
This certificate can be verified by scanning the QR code at <https://verify.springboard.com>

  
Thirumala Arora  
Senior Vice President and Head  
Education, Training and Assessment (ETA)  
Infosys Limited



## COURSE COMPLETION CERTIFICATE

The certificate is awarded to

**KARTHIK DASARI**

for successfully completing the course

**CATIA V5 - Computer Aided Design (CAD)**

on Monday, November 14th 2022

**Infosys | Springboard**

*Congratulations! You make us proud!*



Issued on: Monday, November 14th, 2022  
This certificate can be verified by scanning the QR code at <https://verify.springboard.com>

  
Thirumala Arora  
Senior Vice President and Head  
Education, Training and Assessment (ETA)  
Infosys Limited





A Report on  
Two –Day Workshop on Drone Technology  
for II<sup>nd</sup> & III<sup>rd</sup> year B.Tech Mechanical Students

**Convener:**

Dr.P.N.E Naveen, Assoc .Professor,HOD

**Coordinator:**

Mrs.B.Usha Rani,Sr.Asst.Professor

Mr.K.Ram Prasad, Asst.Professor

**Resource Person:**

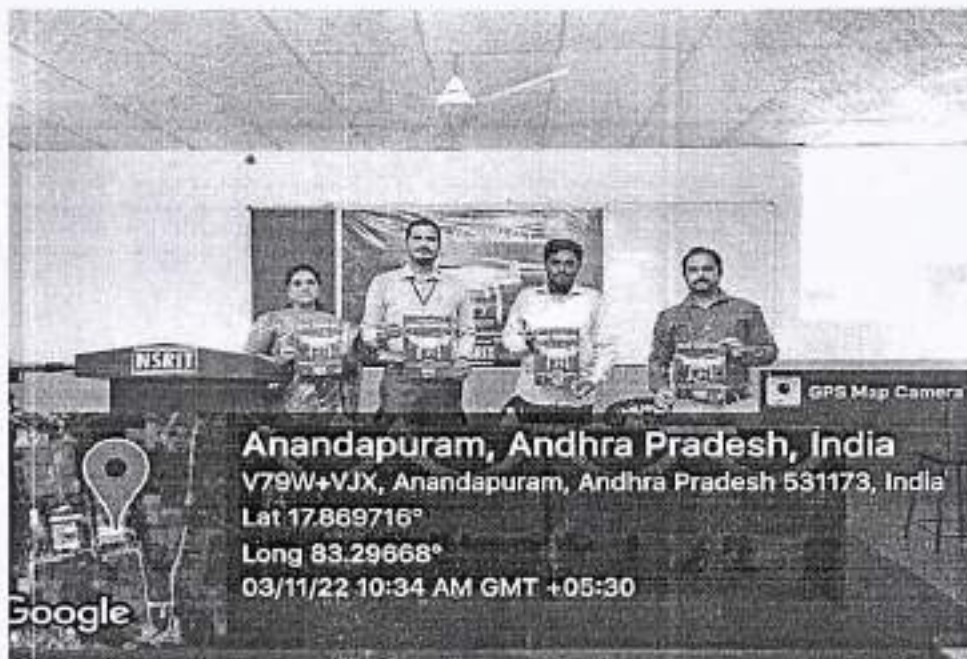
Mr.Likith Reddy

Yamini Infinity Drone,Visakhapatnam

**Organized & Managed By:**

Department of Mechanical Engineering ,  
NSRIT Engineering College , Sontyam

Date: 03<sup>rd</sup> & 4<sup>th</sup> November, 2022



## Introduction:

Department of Mechanical engineering from NSRIT Engineering College arranged Two day Workshop for V<sup>th</sup> & III<sup>rd</sup> Semester students on "Drone Technology " dated 03<sup>rd</sup> & 4<sup>th</sup> November, 2022 for better technical knowledge enhancement of students.

Workshop is important especially important in the field of Engineering as the practice of engineering has an inherent (and unavoidable) impact on society. These programs can be a powerful tool to constitute a positive industrial climate and can range from basic manufacturing system programs for students. Overall, the aim of all these visit to trains the students to adapting to changing scenario of technology. After Workshop students can identify their own efficiency and performance which important for their career, improving work efficiency and confidence.

## Purpose:

Workshop are an integral part of Engineering and acknowledgment of technological up gradation. The purpose of Workshop for students is to provide technical knowledge with the rom technically manning sensitive military areas to luring hobbyists throughout the world, drone technology has developed and prospered in the last few years. Individuals, commercial entities, and governments have come to realize that drones have multiple uses Drones are small remotely controlled aerial vehicles, i.e., they are unmanned aerial vehicles. They look like helicopters or reconnaissance aircraft and, without a doubt, one of their strengths is the many different applications for which they can be used.



### What We Learn? :-

03<sup>rd</sup> & 4<sup>th</sup> November, 2022 learnt Drones are unmanned aerial vehicle. Drones are kind of air vehicle which fly without any actual pilot or crew on board. So, it is often referred as unpiloted aircraft. UAV (Unmanned Aerial Vehicle) are made up of light composite materials which reduce their weight and increase their strength and maneuverability. Initially drones were only used by military. Now it is used by many professional and individuals. Drones are used in various fields. Areas in which drones can be used are construction, defense, photography, marketing, delivery, agriculture, rescue, entertainment etc.



### Conclusion:-

From this Workshop, we got the information and practical knowledge about Drone Assembly, Kinematic involved and Battery thermal Management System in Drone Technology . They got the idea how Kinematic system works are made in Technology and it's GPS Process.

About 89 students of V<sup>st</sup> & IV<sup>th</sup> Semester Mechanical Engineering Students of NSRIT Engineering College, & faculty members benefited from this Workshop as they got chance to discussion with Resource Person. Students were eagerly to say organizing this type of Workshop for practical exposure which is shows the success.

### Program Outcomes (POs)

PO Addressed	Weightage
PO1 Engineering Knowledge	3
PO2 Problem Analysis	1
PO3 Design/Development of Solutions	3
PO4 Investigation of Complex Problems	1
PO5 Modern Tool Usage	3
PO6 The Engineer and Society	3
PO7 The Environment and Sustainability	2
PO8 Ethics	2
PO9 Individual and Team Work	3
PO10 Communication	2
PO11 Project Finance and Management	2
Po12 Life Long Learning	3
PSO 1 Demonstrate adequate core competency in designing and fabricating mechanical systems thermal and hydraulic machines, materials and similar others, and thereby providing sustainable computer aided solutions maintaining professional standards and value system	3
PSO 2 Demonstrate adequate knowledge in the allied specialization of Mechanical Engineering that adds value addition for professional practices	3



**NSRIT****NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

ESTD: 2008

**(AUTONOMOUS)**

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
Recognized under Section 2(F) & 12(B) of the UGC Act, 1956| Accredited by NAAC with 'A' Grade

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

A Report on

*1- Day Technical Talk on***"Pen to Paper: Writing Research "**

@

**4 Feb 2023***(Organized by Department of CSE in association with ACM & CSI )*

Technical Talk on **"Pen to Paper: Writing Research"** was started with inauguration under the organization of Computer Science Engineering Department in NSRIT i.e 04-Feb-2023. The Technical Talk was conducted in CSE Seminar hall. started at 10:00Am .

The main aim of arranging this Technical Talk is to help the students in different fields to enhance their technical writing skills. This Technical Talk is specifically designed to provide the students to communicate their research findings and ideas effectively.

**Mr.K Shankar, Assoc Professor** Welcomed the Resource Person **Dr.Shanmukh Srinivas, Professor, Dept of CSE, GITAM University, Vizag** and Congratulated all the student Participants and also thanked Principal, Director and Management for Accepting to conduct Technical talk

The programme started with an introduction about the Resource Person **Dr.Shanmukh Srinivas** He Shared the views and thoughts.

1. Relevance
2. Specificity
3. Key terms
4. Conciseness
5. Clarity

## **Abstract:**

1. Background
2. Objectives
3. Methods
4. Results
5. Conclusions

**Keywords:** A list of key terms or phrases that describe the content of the research paper, making it easier for others to find and identify the paper in searches.

## **Introduction**

1. Background
2. Purpose:
3. Research question:
4. Thesis statement:
5. Literature review:
6. Significance:

## **Literature Review**

1. Overview
2. Theoretical framework:
3. Summary of existing research:
4. Evaluation of the existing research:
5. Gaps in the existing research:
6. Synthesis of the existing research:
7. Implications for the current study:

## **Methodology**

1. Research design
2. Participants
3. Data collection
4. Data analysis
5. Validity and reliability
6. Ethical considerations

1. Presentation of the data
2. Summary of the findings
3. Interpretation of the findings
4. Statistical analysis
5. Discussion of the limitations
6. Comparison with previous research

## Conclusion

1. Summary of the main findings
2. Interpretation of the findings
3. Implications of the findings
4. Limitations of the study
5. Contribution to the field
6. Final recommendations

## References

A references section in a research paper should contain a list of all the sources cited in the paper. The sources should be listed in a specific format, such as APA, MLA, or Chicago style, depending on the discipline and the guidelines provided by the professor or journal.

During the session various Tasks were given to the students and doubts were clarified accordingly.

The entire Talk was coordinated by Mr.K Shankar , Assoc. Prof. and all the students of II CSE along with faculty of CSE department have actively participated.

The following are the photographs attached in regard to the event







HOD-CSE

**HOD-CSE**

**NSRIT****NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**

ESTD:2008


(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

A Report on

*Expert Talk on***"Employability skills and Personality Development"**

On

**23 feb 2023***(Organized by Department of CSE in association with ACM & CSI)*

**EXPERT TALK  
EMPLOYABILITY SKILLS  
&  
PERSONALITY DEVELOPMENT**

**THURSDAY** **TIME**  
**23 FEB** **10:30 AM**

**SPEAKER**  
**DR S V RAMANA**  
ASST. PROF. OF ENGLISH GVPCE(A), VIZAG

**DEPARTMENT OF**  
**CSE**

**AUTONOMOUS**

Technical Talk on **"Employability skills and Personality Development"** was started with inauguration under the organization of Computer Science Engineering Department in NSRIT i.e 23-Feb-2023. The Technical Talk was conducted in CSE Seminar hall. Started at 10:00Am

On 23 feb 2023, NSRIT-CSE conducted a program on employability skills and personality development with the aim of equipping participants with the necessary skills and traits to enhance their employability and professional growth. The program focused on identifying key employability skills, cultivating a growth mindset, and developing essential personality traits required for success in the workplace.

The employability skills and personality development program was held at CSE seminar hall and targeted individuals from diverse professional backgrounds. The program consisted of interactive sessions, workshops, and activities to engage participants actively. The following topics were covered during the program

Definition and importance of employability skills.

Overview of the key employability skills, such as communication, teamwork, problem-solving, adaptability, and leadership.

Understanding the relevance of these skills in different professional settings

Understanding the role of personality traits in professional success

Exploring different personality theories and models.

Developing self-awareness and emotional intelligence.

Enhancing interpersonal skills and building effective relationships

## Outcome and Impact:

The employability skills and personality development program had a significant impact on the participants, helping them acquire essential skills and cultivate positive attitudes for career success. Key outcomes and impact of the program include:

### Conclusion:

The employability skills and personality development program organized by [Your Organization's Name] successfully addressed the needs of participants in enhancing their employability and fostering personal and professional growth. The program equipped participants with practical skills, strategies, and a growth mindset necessary for success in today's dynamic job market. We remain committed to supporting individuals in their journey towards fulfilling careers and personal development.





We extend our gratitude to all participants, speaker, and organizers who contributed to the success of this program.

HOD/CSE

**NSRIT****NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

ESTD:2008

**(AUTONOMOUS)**

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
Recognized under Section 2(F) & 12(B) of the UGC Act, 1956 | Accredited by NAAC with 'A' Grade

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

A Report on

*2- Days Workshop on***" CYBER SECURITY "***(Organized by Department of CSE in association with ACM & CSI)*







**2 DAY WORKSHOP  
ON  
CYBER SECURITY**

**In Association with INDIAN SERVERS Organized by  
Department of Computer Science and Engineering In Association With  
Computer Society of India and ACM**

 <b>Jan -2023</b> <b>27th &amp; 28th</b>	<b>Coordinator</b> Dr.Srinivas Rayudu Professor & HoD/CSE	<b>Co-Coordinator</b> Mr.K.Shankar Assoc.Prof,CSE	<b>Student Coordinator</b> B.Praveen (II CSE-A) M.Nikhil (II CSE-B)
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Workshop on **CYBER SECURITY** was started with inauguration under the organization of Computer Science Engineering Department in NSRIT i.e 27-jan-2023 to 28-jan-2023. The workshop was conducted in CSE Seminar hall. started at 9:30Am .

The main aim of arranging this workshop is this workshop is specifically designed to provide the students with the right knowledge to the aspiring hacking and cyber security enthusiasts.

**Dr. Raja Murugados** , Director disclosed his assessment in the inaugural that now a day's **CYBER SECURITY** is a fast growing field of IT concerned with reducing organizations risk of hack.

He congratulated the CSE Department for organizing such type of workshops to students.

technologies, processes and controls that are designed to protect systems, networks and data from cyber attacks. Effective cyber security reduces the risk of cyber attacks, and protects organisations and individuals from the unauthorised exploitation of systems, networks and technologies.

**Mr.K Shankar, Assoc Professor** Welcomed the Resource Person Mr.Saisatish, Founder & CEO Indian Servers Pvt.Ltd. and Congratulated all the student Participants and also thanked Principal, Director and Management for Accepting to conduct Workshop

The programme started with an introduction about the Resource Person Mr.Saisatish, Founder & CEO Indian Servers Pvt.Ltd. He Shared knowledge and opportunity about cyber security and cyber crimes. Now-a- days cyber crimes are becoming more and more in this digital world and everyone should get aware of these crimes. Crime rate is getting increased day by day.

During the session various Tasks were given to the students and doubts were clarified accordingly.

Topics covered by Mr. Sai Satish :

Awareness and protection from Cyber crimes like Mobile Hacking,

Social Media Hacking,

E-Mail id and Gmail Hacking,

Computer/laptop Hacking,

Website/Web Browser

Hacking,

Password Hacking,

OTP(One Time Password) Hacking,

Bank Account Hacking,

Ransomeware, Malwares, Virus, etc.....

Daily Feedback from the students after the completion of session was taken and students have given an excellent feedback asking for more workshops in future days.

The Workshop ended by Felicitating the Resource Person . Dr.Srinivasa Rayudu, Prof. HOD-CSE and Mr K.Shankar Coordinator appreciated with Momento as token of Love.

The entire workshop was coordinated by Mr.K Shankar , Assoc. Prof. and all the students of II CSE along with faculty of CSE department have actively participated.

The following are the photographs attached in regard to the workshop





The following are the photographs attached in regard Valedictory programme :





**HOD-CSE**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING****REPORT ON "CAREER READINESS AND CRACKING HACKATHONS AND IDEATHON  
TOWARDS OPPORTUNITIES" ON 27 JULY 2022**

Department of Computer Science and Engineering in Association with CSI of NSRIT organized a Guest Lecture on **"CAREER READINESS AND CRACKING HACKATHONS AND IDEATHON TOWARDS OPPORTUNITIES"** by **Dr. P.E.S.N. KRISHNA PRASAD, Professor and Head, Department of CSE ANITS, Vishakhapatnam, on 27th July 2022** from 10:00 AM to 4:00 PM in seminar hall of CSE Block-III.

All the students of pre final year of (CSE A, CSE B, CSD & CSM) participated.

Guest Speaker - Dr. Krishna Prasad discussed various issues relating to career planning and management like steps and process of planning, how to create an individual identity, tips for effective management and strategies to become successful.

Mr. Krishna Prasad, started the talk with giving a brief statistics on the current employability status of engineering students.

He highlighted the two main aspects for a student career growth that is

- ❖ Problem Generation
- ❖ Problem solving

which has become the core of the Guest Lecture.

He gave a vast explanation and awareness about the IT Sector category of jobs and the packages there are offering in these fields for freshers.

He listed the IT Sector jobs mainly into four categories three categories that is:

- Service Sector Jobs
- Product Sector Jobs
- Start Up
- Consultant

He also brought a vast awareness about the skills and knowledge that the student has to acquire before he attends an interview. He also thought us, how to introduce and communicate effectively with the interviewer in our interview.

He also discussed the most effective tips for building of our resumes to be the shortlisted one's among many.

The most effective part in this Guest Lecture is that, he has explained us about the coding skills in which the present market is divided. They are namely:

- High Code
- Low code
- Zero Code

And these are in turn further divided into many sectors which has been clearly explained by the resource person.

He has also provided students with many valuable websites and links for improving

- ✓ Coding skills
- ✓ Online free certifications
- ✓ Cracking competitive programming

- ✓ Aptitude skills
- ✓ Internships
- ✓ Free E-Books downloads.

He has briefly discussed, about the topics of Cloud Computing, Networking, Salesforce Trailhead, AWS educate programs, Web Development and App development.

It was a very informative and interactive session where students came to know about the career choices in different sectors of their interest. Students have raised many queries and they got clarified with the session regarding their respective career plantings and placements.

As per the feedback received from the participants it was a very good learning experience as the Resource Person helped them in their understanding about the career building skills and he also brought a path for the students to build up their careers in the right track.



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**NSRIT****NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY**

ESTD:2008

**(AUTONOMOUS)**

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada)  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

A Report on

*Expert Talk on***"Changing Evolution of IT"**

@

**25 Feb 2023***(Organized by Department of CSE in association with ACM & CSI)*

**NSRIT**  
AUTONOMOUS

**EXPERT TALK**  
**CHANGING EVOLUTION OF IT**

SATURDAY | TIME  
25 FEBRUARY | 10:00 AM

**SPEAKER**  
**I PRASANNA KUMAR**  
DEVOPS CONSULTANT  
RSS Solutions, HYD

**DEPARTMENT OF**  
**CSE**

Logos: NSRIT, ACM, Institution Accredited Council

Mr. Shankar, Assoc Professor Welcomed the Resource Person Mr. Prasanna Kumar Devops Consultant, RSS Solutions, Hyderabad and Congratulated all the student Participants and also thanked Director and Management for Accepting to conduct Technical Talk

This talk report presents a comprehensive overview of the changing evolution of Information Technology (IT). The workshop aimed to explore the significant shifts and emerging trends within the IT industry, discuss the factors influencing its evolution, and analyze the implications for businesses and society. The report summarizes the key discussions, insights, and recommendations shared by industry experts and participants during the talk

## Introduction

Workshop objectives and significance

Overview of the IT industry and its impact on various sectors

## Historical Evolution

Early days of computing and mainframe systems

The era of personal computers and local networks

Internet and the World Wide Web

Mobile revolution and the rise of smart phones

Cloud computing and virtualization

## Factors Driving Evolution:

Technological advancements:

Artificial Intelligence (AI) and Machine Learning (ML)

Internet of Things (IoT) and connected devices

Big Data analytics and predictive modeling

Cyber security and data privacy

Quantum computing and its potential impact on IT

## Changing business models:

Software-as-a-Service (SaaS) and cloud-based solutions

Platform-based ecosystems and digital marketplaces

Agile methodologies and DevOps practices

IT outsourcing and globalization

## Societal and cultural influences:

Digital transformation in industries and organizations

User-centric design and personalized experiences

Ethical considerations in IT development and usage

Accessibility and inclusivity in technology

## Emerging Trends:

Block chain technology and decentralized applications

Edge computing and distributed networks

Augmented Reality (AR) and Virtual Reality (VR)

5G technology and enhanced connectivity

Automation and robotics in IT processes

## Recommendations:

Encouraging continuous learning and upskilling in the IT workforce

Promoting diversity and inclusion in the industry collaborating with academia and research institutions

for innovation Strengthening cyber security measures and promoting responsible IT practices Advocating for policies that address societal and ethical challenges

### Conclusion:

Recap of the discussions and insights. Key takeaways on the changing evolution of IT. Call to action for individuals, organizations, and policymakers to adapt and embrace the opportunities presented by the evolving IT landscape

This session report provides a comprehensive understanding of the changing evolution of Information Technology, highlighting the technological advancements, changing business models, and societal influences driving its transformation. It emphasizes the need for organizations and individuals to stay updated with emerging trends, address challenges, and adopt responsible practices to thrive in the dynamic IT landscape.



Interactive session with all the students



The following are the photographs attached in regard Valedictory programme



HoD of CSE Dr. Srinivasa Rayudu expressed sincere gratitude for outstanding support and dedication. It has been an absolute pleasure working with you, and we are immensely grateful for the knowledge and inspiration you have shared with us. We hope that we will have the privilege of collaborating with you again in the future and Felicitated.

HOD/CSE



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

*A Report on*

*Infosys Spring board Awareness program on Online Certification*

*On 22 Feb 2023*

Talk on "*Infosys Spring board Awareness program on Online Certification*" was started with inauguration under the organization of Computer Science Engineering Department in NSRIT i.e. 22 Feb-2023. The Talk was conducted in CSE Seminar hall. Started at 10:00Am

Mr. Shankar, Assoc Professor Welcomed the Resource Person Mr.Satyam, Sr.Software Engineer Infosys,Banglore and Congratulated all the student Participants and also thanked Principal, Director and Management for Accepting to conduct Awareness Program on Online Certification

**Objectives:**

To raise awareness about the importance of online certifications in today's professional landscape

To provide information on reputable platforms and institutions offering online certification programs

To guide participants through the process of selecting relevant certifications based on their career goals and interests.

To address common misconceptions and concerns related to online certifications.

To encourage participants to consider online certifications as a means of enhancing their skills and career prospects.

Introduction to online certifications:

Definition and scope of online certifications.

Different types of online certifications available.

Benefits of online certifications in terms of career advancement and skill development.

Selecting the right certification:

Identifying personal and professional goals.

Researching and evaluating reputable platforms and institutions offering online certifications

Considering industry trends and market demand.

Assessing the credibility and recognition of certifications

Process of obtaining online certifications:

Registration and enrollment procedures.

Course structure and duration.

Assessment methods and certification criteria.

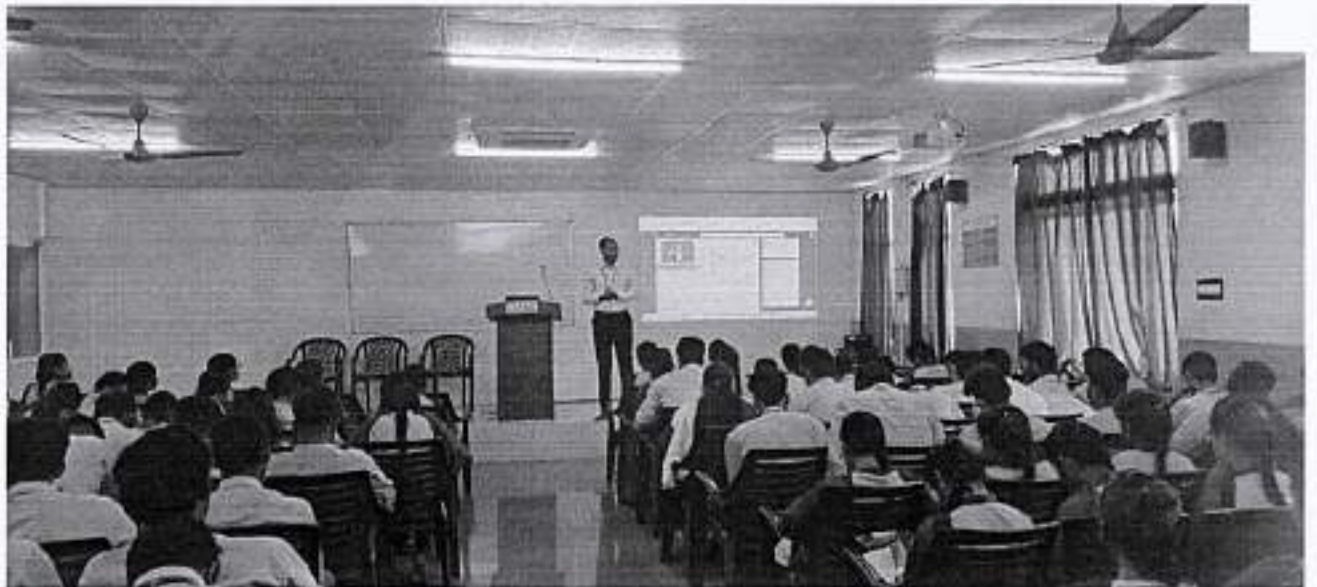
Digital badges and certificates.

## Outcome and Impact:

The awareness program received an overwhelming response from participants, with [number] individuals attending the event. The program effectively met its objectives by raising awareness about the importance of online certifications and dispelling common misconceptions. Key outcomes and impact of the program include:

## Conclusion:

The awareness program on online certification organized by [Your Organization's Name] was a resounding success in achieving its objectives of promoting awareness and understanding of online certifications. The program equipped participants with valuable knowledge and resources to make informed decisions regarding their professional development. We remain committed to supporting our members and the wider community in their pursuit of lifelong learning and career growth.





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