

# VIDYUT

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Department of Electrical and Electronics Engineering  
Official Newsletter

## FUTURE OF ELECTRIC VEHICLE



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**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Vision of the Institution**

To be a leader in Higher Technical Education and Research by providing the state of the art facilities to transform the learners into global contributors and achievers.

**Mission of the Institution**

To develop SVCE as a "CENTRE OF EXCELLENCE" offering Engineering Education to men and women at undergraduate and postgraduate degree levels, bringing out their total personality, emphasizing ethical values and preparing them to meet the growing challenges of the industry and diverse societal needs of our nation.

**Vision of the Department**

The vision of Electrical and Electronics Engineering Department is to provide a high standard of education in Electrical and Electronics Engineering so as to meet the industry standards through domain.

**Mission of the Department**

**M1:** To create state of the art facilities such that the students excel in Electrical and Electronics Engineering education.

**M2:** To equip students with a well defined curriculum to meet the requirements of industries and society.

**M3:** To promote a culture of research, innovation and entrepreneurship in the thrust and allied areas of Electrical and Electronics Engineering.

**M4:** To inculcate soft skills and foster ethical values and shape the total personality of the students.

## **Program Educational Objectives (PEOs) UG-EEE**

**PEO1:** Graduates of EEE transformed to engineering contributors in the fields of Electrical, Electronics and Computer Engineering.

**PEO2:** Succeed in becoming entrepreneurs through human centered design thinking and innovation.

**PEO3:** Become eligible to pursue higher studies in their chosen areas of engineering or management

**PEO4:** Effective, conscious and ethical team player in the field of green energy management and sustainability

## **Program Outcomes (POs) for UG-EEE**

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and lead.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **Program Specific Outcomes (PSOs) for UG-EEE**

**PSO1:** The ability to build, implement, test and maintain analog and/or digital systems and implement Electronic control of Drives for Industrial automation and Electric Vehicle.

**PSO2:** The ability to analyze Power System network encompassing stability, control and protection and interconnection of Renewable Energy Sources with Micro and smart grid.

## **Program Outcomes (POs) for PG-PED**

**PO1:** An ability to independently carry out research/investigation and development work to solve practical problems.

**PO2:** An ability to write and present a substantial technical report/document.

**PO3:** Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.

## **Program Specific Outcomes (PSOs) for PG-PED**

**PSO1:** The ability to design and analyze Power Electronic converters and control of Electric drives for Industrial applications.

**PSO2:** The ability to apply Power Electronic Circuits in Transmission and distribution network of Power System and interconnection of Renewable Energy.

## **Driving Innovation: Chennai's Sri Venkateshwara College of Engineering Shines in BAJA SAE**

An article has been published in "The Hindu" about all - India BAJA Society of automotive Engineering (SAE) competition. EEE final year student Ms. Anushri .M gave an interview on the indigenously developed E- Vehicle for off - roading. The excerpts of the interview are as below.

It is that time of the year when engineering students dissolve the four walls of the classroom and enter a space where feet do not dare fall. Only a specially designed off-roading vehicle is able to tread this space. This is the world of the BAJA SAE (Society of Automotive Engineers), a competitive sport which bridges the gap between academia and the automobile industry.

The sport originated in 1926 and gets its name from its place of origin – Mexico's Baja California Peninsula .One of the teams representing Chennai this year was from Sri Venkateshwara College of Engineering (SVCE). The 26-member team represented the college at Himachal Pradesh's Chitkara University and returned with a second runners-up trophy in the innovation category. Their novelty? The team built a two portal axle (Portal gear lifts) buggy or vehicle which increases ground clearance and aids in off-roading abilities.

The competition is held every year in April at different locations across the country.The 26-member team from Chennai comprised only one female participant – AnushriMuthukumar – an electrical and electronics engineering student. Anushri explains that the competition is divided into three stages. The first is the technical inspection where the vehicle is checked for errors. The next round is the brake and acceleration test followed by the endurance race where the vehicle to complete 10 laps in a stipulated time.

## Where feet do not fall

What is it like to sit in a buggy and compete in BAJA? This sport for students binds the worlds of scholarship, man and machine

**Shreya Banerjee**  
shreya.aj@vsnl.com

It is that time of the year when Engineering students climb the four walls of the classroom and enter a space where feet do not dare fall. Only a specially designed off-roading vehicle is able to tread this space. This is the world of the BAJA SAE (Society of Automotive Engineers), a competitive sport which bridges the gap between academia and the automobile industry.

The sport originated in 1926 and gets its name from its place of origin – Mexico's Baja California Peninsula. One of the teams representing Chennai this year was from Sri Venkateswara College of Engineering (SVCE). The 26-member team from the city was at Himachal Pradesh's Chitkara University and returned with a second runner-up trophy in the innovation category. Their novelty? The team built a two-wheel drive (portal gear lift) buggy or vehicle which increases ground clearance and aids off-roading.

The BAJA SAE is an inter-collegiate automobile design and racing competition for graduate and undergraduate Engineering students. Only colleges affiliated to the SAE organization can enroll for the event. The game is a marriage of off-roading and automobile off-roading. While off-roading is done with four-seater SUV cars,

**The Buggy** A single seat off-road buggy, special automobile



the buggy in BAJA is built from scratch and has only one seat on four wheels. The event tests the vehicle's endurance and allows students to put their academic knowledge to a real-world test.

The 26-member team from Chennai comprised only one female participant – Anushri Muthukumar – an Electrical and Electronics Engineering student. Ravikrishnan Saravanan, captain of the team says, "During the eight months that lead to the making of the vehicle professors don't help us, we are completely on our own."

**What matters most to us is being noticed by big brands – which later helps in our career.**

**KAMALJEET D**  
Former BAJA racer

The first prize goes to the team able to complete 10 laps in the shortest amount of time. Kamaljeet D, captain of the 2022 BAJA team from SVCE college says, "What matters most is being noticed by big brands – which later helps in our career." Considerable team work, learning and unlearning come to life ingeniously on the minds of these budding engineers. In between installing working lights on the vehicle and correcting wires, a large chunk of student life promises an indelible presence in abiding memories.



Report by Shreya Banerjee

Ms.Anushri M



SVCE BAJA Team



## Faculty Achievements

For the academic year 2022-23 on the World Red Cross Day 2023, best institution award (Kancheepuram Dt.) was bagged by SVCE and this award was received by Dr. KR Santha , Professor & Head, Vice Principal on behalf of the institution, on 08.05.2023 at Melmaruvathur College of Nursing.



The Best YRC student Volunteer awards was won by Mr. Rajarajan S, IV Year, Electrical and Electronics Engineering.



## DST-FIST Review meeting at IIT, New Delhi

Dr.S Ganesh Vaidyanathan, Principal, (PI) and Dr.Sudhakar K Bharatan (CO-PI) attended the Project review meeting held on 12.05.2023 at Research and Innovation Park (IITD Campus), New Delhi. DST experts approved the following:

1. Vision of the centre
2. Creation of the cleanroom facility
3. Commissioning of FIST equipment
4. Research work carried out at iNRC.

### Vision of the Centre

Enhance the knowledge of the graduates in the fields of nanoengineering and nanotechnology, thereby transforming learners into global contributors and achievers.

### Infrastructure created under DST FIST Class 10000 Cleanroom

S.No.	Facilities created	Cleanroom	Space (sq ft.)
1	Lithography	1000	500
2	Characterization		400
3	Nano Synthesis	10000	500
4	Wet Lab		400
5	Common area		200
	<b>Total</b>		<b>1000</b>



Common area



Synthesis



Lithography

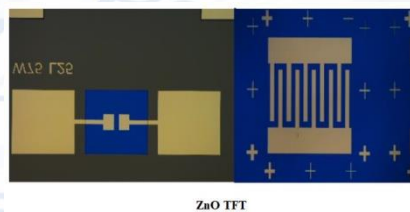


Wet Lab

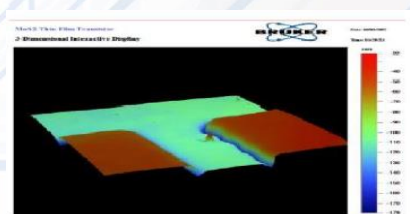
## DST FIST equipment commissioned



## Research activities at the Centre



### **Thin film transistor and photodetector**



**Confocal microscope image of fabricated TFT.**

Dr.Sudhakar K Bharatan delivered an expert talk in the webinar on “Technology day” organized by Institution of Engineers, India, Kalpakkam local center, held virtually on 25.05.2023.



**The Institution of Engineers (India)**  
**Kalpakkam Local Centre**

cordially invites you to join  
Lecture meeting scheduled on  
**Thursday, 25<sup>th</sup> May 2023 at 18.30 hrs.**  
on the occasion of

## **TECHNOLOGY DAY TALKS 2023**

**Title : Semiconductors and IC Technology**



Speaker

**Dr. Sudhakar K Bharatan,**

Professor/EEE and Coordinator, DST FIST sponsored Interdisciplinary  
Nano Research Centre, Sri Venkateswara College of Engineering, Sriperumbudur

**Zoom Meeting ID : 853 6731 1539      Passcode : 102468**

**ATTENDING IEI-KALPAKKAM LOCAL CENTRE COLLEGES/ UNIVERSITY:**

APOLLO ENGINEERING COLLEGE, Chennai  
HINDUSTAN UNIVERSITY, Chennai  
SAVEETHA ENGINEERING COLLEGE, Chennai  
SSN UNIVERSITY, Chennai  
SSN COLLEGE OF ENGINEERING, Kalavakkam - 603110  
St. JOSEPH COLLEGE OF ENGINEERING, OMR, Chennai - 603119  
SRI VENKATESWARA COLLEGE OF ENGINEERING, Chennai - 602117  
AVIT UNIVERSITY, Chennai - 603104  
RAJALAKSHMI ENGINEERING COLLEGE, Chennai - 602105  
DHANALAKSHMI SRINIVASAN COLLEGE OF ENGINEERING AND TECHNOLOGY, Chennai - 603104  
AMET UNIVERSITY, Chennai - 603112  
SMK FORMRA INSTITUTE OF TECHNOLOGY, Chennai - 603103  
ANAND INSTITUTE OF HIGHER TECHNOLOGY, Chennai - 603103  
ASAN MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY, Chennai - 603001  
SRI ANDAL ALAGAR COLLEGE OF ENGINEERING, Chennai - 603111

## College Day 2022-23 Celebrations

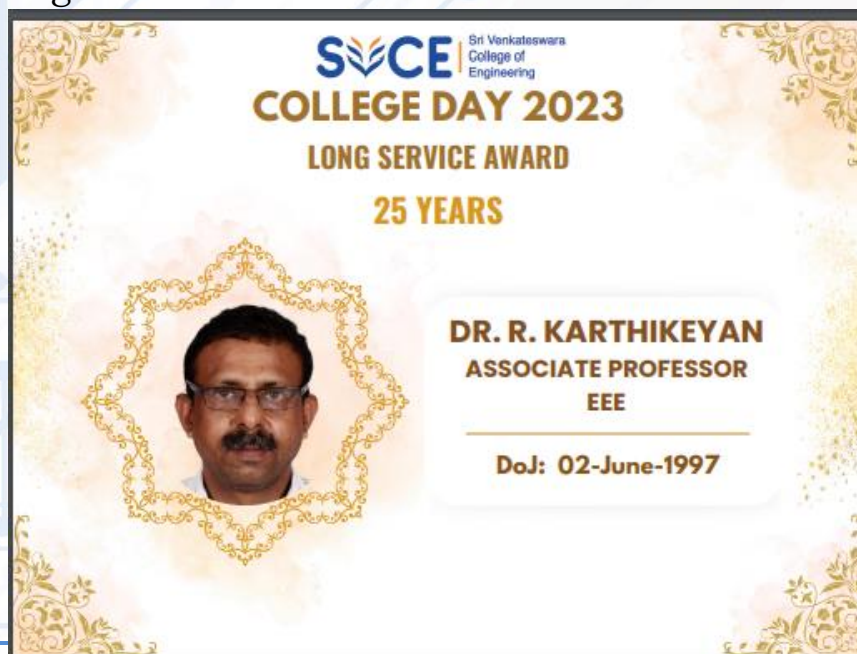
### Outstanding Teacher Award

Heartfelt Congratulations' to Dr. M Sankar, Assistant Professor, for receiving the Outstanding Teacher Award on 5.5.23



### 25 Years of Long Service Award

Heartfelt Congratulations' to Dr.R.Karthikeyan, Associate Professor, for receiving the 25 years of long service award.

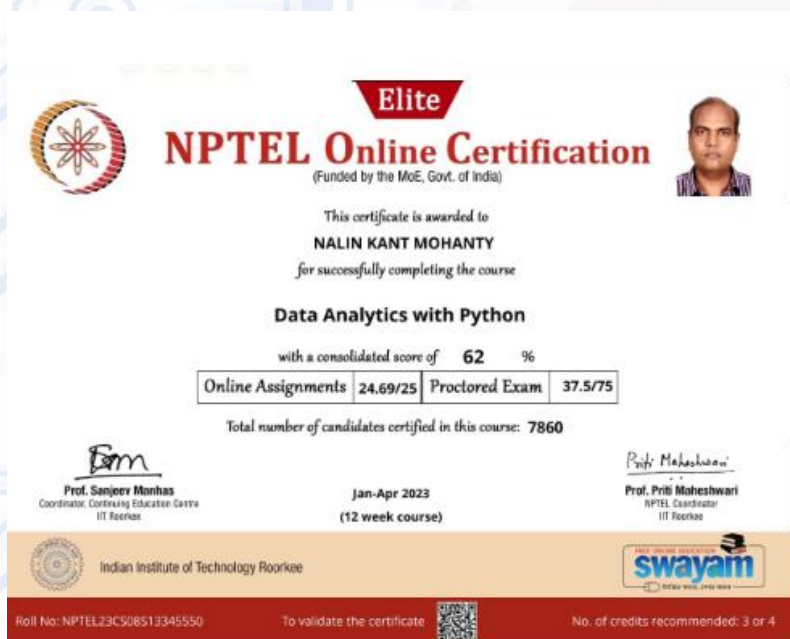


## 10 Years of Long Service Award

Heartfelt Congratulations' to Dr. Sudhakar K Bharatan, professor, Ms.S.Sinthamani, Asstistant Professor, Ms.K S Pavithra, Asstistant Professor and Mr. B.Madhavan, Machanic Grade -3 for receiving 10 years of long service award.



Dr.Nalinkanth Mohanty, Professor sucessfully completed a 12 week NPTEL course on “Data Analytics with Python”, and received the Elite certificate.



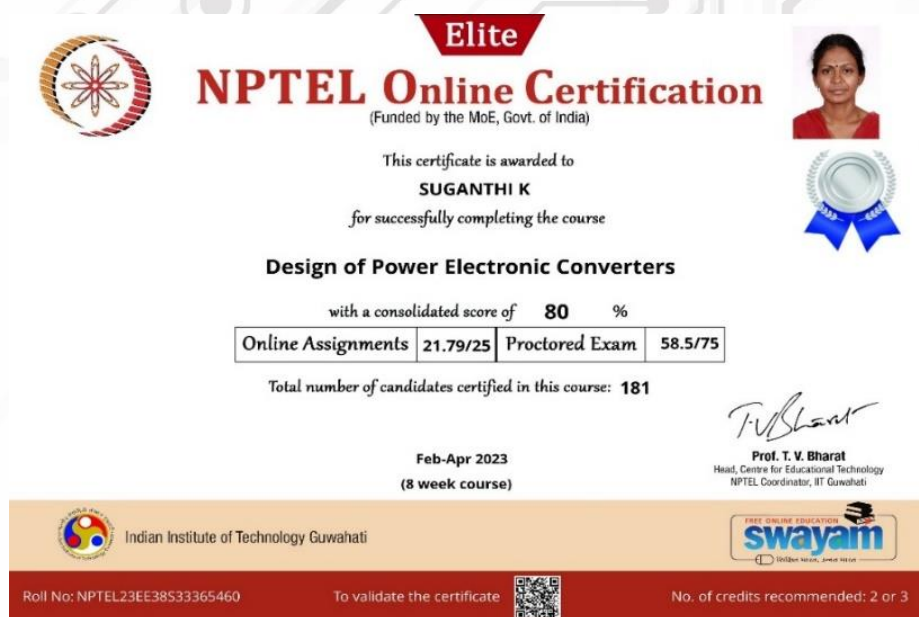
Dr.Nalinkanth Mohanty, Professor, reviewed two papers in MDPI Journal Sustainability and Applied Sciences in 2023 and received certificate.



Ms. M. Sasikala, Assistant Prof, successfully completed a 12 week NPTEL course on “Semiconductor Device Modelling and Simulation, and received the certificate.



Ms. K. Suganthi, Assistant Professor, successfully completed a 8 week NPTEL course on, “Design of Power Electronic Converters” conducted by IIT Guwahati , and received the Elite certificate.



The certificate is titled "Elite NPTEL Online Certification" and is funded by the Ministry of Education, Government of India. It is awarded to SUGANTHI K for successfully completing the course "Design of Power Electronic Converters" with a consolidated score of 80%. The certificate includes a table of scores for Online Assignments (21.79/25) and Proctored Exam (58.5/75). It also mentions that a total of 181 candidates were certified in this course during the Feb-Apr 2023 period (8 week course). The certificate is signed by Prof. T. V. Bharat, Head, Centre for Educational Technology and NPTEL Coordinator, IIT Guwahati. The bottom of the certificate features the logos of Indian Institute of Technology Guwahati and Swayam, along with the roll number NPTEL23EE38S33365460, a QR code for validation, and the recommended credit value of 2 or 3.

**Elite**  
**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**SUGANTHI K**  
for successfully completing the course

**Design of Power Electronic Converters**  
with a consolidated score of **80** %

Online Assignments	21.79/25	Proctored Exam	58.5/75
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Total number of candidates certified in this course: **181**

Feb-Apr 2023  
(8 week course)

*T. V. Bharat*  
Prof. T. V. Bharat  
Head, Centre for Educational Technology  
NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

swayam  
FREE ONLINE EDUCATION  
Unitless. Value. Joint Effort.

Roll No: NPTEL23EE38S33365460 To validate the certificate No. of credits recommended: 2 or 3



## Students Achievements

Heartfelt Congratulations' to Mohammed Kaif. D, third year, EEE for receiving the 'Dr. S Thiruvengadam Award' during College Day on 5.5.23.



Heartfelt congratulations to Budding Bright Engineer awardees Mr. S.Shakthivel and Mr.M.InfantVimal, second year EEE students.



Heartfelt congratulations to Mr. Adithyan M ,final year student 2019-23 batch,Vice President, Student Council, SVCE.



## INUP - Idea to Innovation Student Fellowship at IIT Guwahati

Mr. Narendran K, Mr. Ramana R P, and Mr. Yokesh kumar of third year EEE students were shortlisted for Hands-on Training on ‘Fabrication and Characterization of Nanoelectronic Devices’ at IIT Guwahati during 2<sup>nd</sup> to 11<sup>th</sup> June 2023, at IIT Guwahati under the guidance of Dr. Sudhakar K B.




Narendran K




Ramana R P



Yokesh Kumar M



**Hands-on Training  
on  
Fabrication and Characterization of Nanoelectronic Devices**



**2<sup>nd</sup> - 11<sup>th</sup> June, 2023**  
**INUPi2i**

Dear Participant, Date: 09/05/2023

**Sub:** Invitation to attend Hands-on Training on Fabrication and Characterization of Nanoelectronic Devices at Centre for Nanotechnology, IIT Guwahati from 2<sup>nd</sup> to 11<sup>th</sup> June, 2023

We are happy to inform you that you have been shortlisted for attending “Hands-on Training on Fabrication and Characterization of Nanoelectronic Devices” at Centre for Nanotechnology, IIT Guwahati.

The training is scheduled to be held from 2<sup>nd</sup> to 11<sup>th</sup> June, 2023 and is sponsored by MeitY, Gov, under INUP-i2i program.

Your boarding and lodging will be provided by us. Also, your travel expenditure will be covered for minimum A/C 3-tier shortest route fare subject to a limit.

You are requested to confirm your participation on or before 5:00 PM, 15/05/2023. The confirmation and complete travel details must be provided by filling the given form: <https://forms.office.com/r/Dw6EdK6aM5>

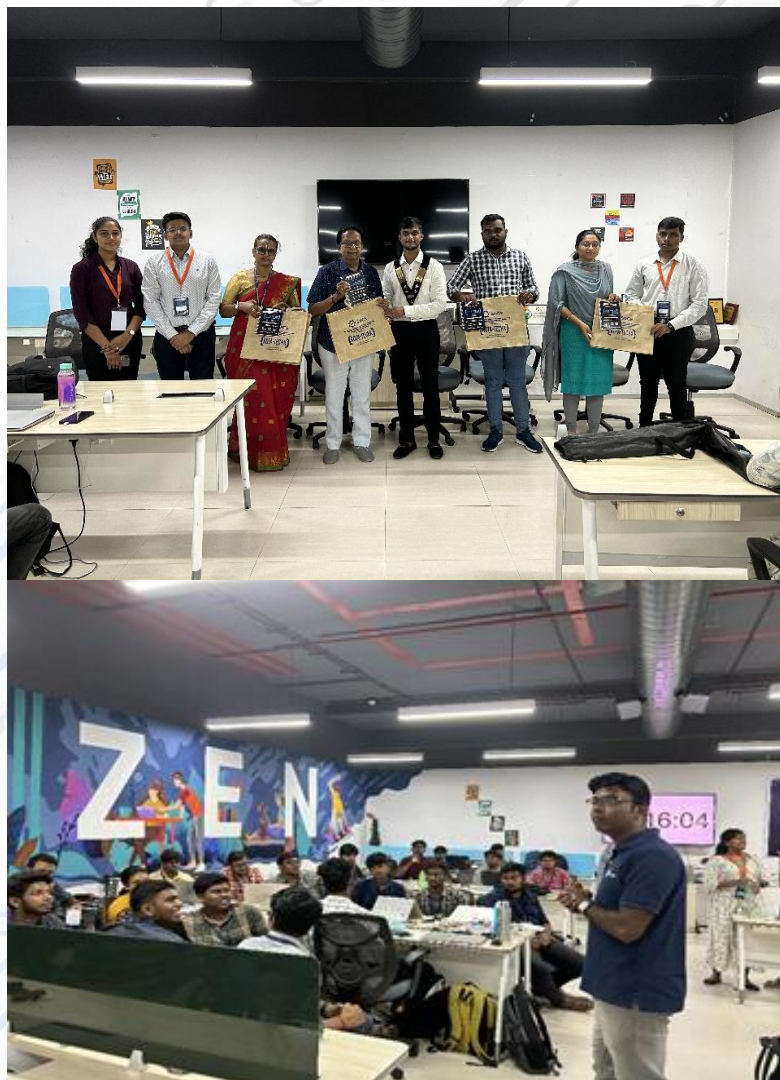
These details are required for us in advance to plan for your stay at IIT Guwahati. Further details of the workshop will be provided in due course of time.

Looking forward to your active participation.

With Best Regards  
Organizing Committee – INUP-i2i,  
Centre for Nanotechnology  
Indian Institute of Technology Guwahati  
Guwahati- 781039, Assam, India  
Landline: +91-361-2583066/ 3055  
Email: [iitg.inupi2i@iitg.ac.in](mailto:iitg.inupi2i@iitg.ac.in)

## Rotaract Club Activity

Rtr.Dhanush Ragav P, Silver Jubilee President , Rotaract Club of SVCE, III year, EEE with his team organized a 24-hour Hack & Make-a-thon, Rota-TechX, on 4<sup>th</sup> & 5<sup>th</sup> may 2023 at GUVI Geek Networks IITM Research Park. The event was attended by students from different colleges, who showcased their talent, creativity and innovation in developing technology-based solutions to Rotary's 7 areas of focus. The participants worked tirelessly for 24 hours, showcasing their skills and knowledge in coding, design, and problem-solving. The event was a great success.



Moments captured during the event

## Sports Achievements

Our college sports day celebration was held on 03<sup>rd</sup> May 2023 at college ground. Mr. V DEVARAJAN, International Boxer & Arjuna Awardee, Southern Railways Sports Officer presided over the function as Chief Guest and distributed the prizes to students and faculty members. The list of awards received in different categories of sports as team and individual events are summarized below.

Sl no	Sports	Student name & PLACE	Year of study
1.	Torch Bearers	MohanaViswan R & Irish Varun Raghul R & Harini N	IV EEE & III EEE
2.	Best Player Award in the year 2023 Table Tennis (M)	MohanaVishwan R	IV EEE
3.	Best Player Award in the year 2023 for Basketball (M)	Irish Varun .S	IV EEE
4.	Best Player Award in the year 2023 for Kho-Kho(M)	Sudharsan N	III EEE
5.	Best Player Award in the year 2023 for Chess(M)	Srinivasan N	II EEE
6.	Table Tennis(M)	Mohana Vishwan R, (Winner)	IV EEE



Torch Bearers from EEE



Mohana Viswan R (IV Year)



Irish Varun .S (IV Year)



Sudharsan N (III Year)



Srinivasan N (II Year)

## ATHLETICS RESULTS – MEN & WOMEN

Sl no	Sports	Student name	Year of study	Place
1.	1500 MTS M)	Sudhrsan . N	III	III <sup>rd</sup>
2.	SHOT-PUT THROW(M)	Deepak. H	III	I <sup>st</sup>
3.	DISCUS THROW (M)	Raghul .R	III	I <sup>st</sup>
4.	4X400 RELAY(M) M	Raghul .R	III	I <sup>st</sup>
5.	TRIPLE JUMP(W)	Rakshaya Kamini Vasutha K	II	II <sup>nd</sup>
6.	LONG JUMP (W)	Rakshaya Kamini Vasutha K	II	III <sup>rd</sup>
7.	4X100 M RELAY(W)	Laksita. D & Dharsinee .V	I	II <sup>nd</sup>
8.	4X100 M RELAY(W)	Abirami RM & Faseeha . S	I	III <sup>rd</sup>



Raghul .R



Laksita. D & Dharsinee.V

## Placement Details



Swaeta Lakshmanan, Final year EEE student got placed in Samsung India Pvt Ldt with 4.5 LPA



Vijay Anandhan , Final year EEE student got placed in Schwingstetter India pvtltd with 4 LPA

## Research Centre Activities



Ms. S. Rajalakshmi Associate Professor, Department of Computer Science Engineering defended her thesis titled “HYBRID RECOMMENDER SYSTEM USING SYSTOLIC TREE FOR PATTERN MINING” on 12.05.2023 under the supervision of Dr. KR Santha, Professor & Head, Department of Electrical and Electronics Engineering. She is the 145<sup>th</sup> PhD qualified member of the faculty in SVCE, 138<sup>th</sup> PhD from SVCE Research Centre, 18<sup>th</sup> PhD from EEE and 7<sup>th</sup> PhD for Dr. KR Santha.

### Faculty Research Day (FRD)

Faculty research day (FRD) was conducted on 26.05.2023, Dr C Umarani, Director, Centre for Research, Anna University, delivered the inaugural address for our FRD 2023. On that day the faculty members with h-index (>10) were honoured. Dr. R.Kannadasan, Asst Prof received appreciation from the chief guest for his publication having h -index greater than 10 and 730 citations. After inauguration research presentation by all the internal and external research scholars were carried out in the respective departments of research scholars. Fifteen Faculty Members of EEE presented their research work. Dr. R. Karthikeyan, ASP, EEE acted as judge and three faculty members Mrs. S.Arulmozhi, Asst,prof, Mr.S.Purushothaman, Asst Prof, and Mrs. K.Suganthi, Asst Prof received 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> prizes respectively which involve cash prize and a certificate of appreciation.





1<sup>st</sup> Prize -Ms.S.Arulmozhi, PT(I)



2<sup>nd</sup> Prize-Mr.D.S.Purushothaman, PT(I)



3<sup>rd</sup> Prize–Ms.K.Suganthi, PT(I)

## Faculty Participation in Conference / FDPs/ Workshops

- Ms. S.Sinthamani, Assistant Professor, attended online webinar on “Design and simulation of Hydraulic circuits in Automation studio”, on May 3<sup>rd</sup> ,2023 conducted by Automation studio.
- Ms. M. Sasikala, Mr.M.Sudharsanam, Mr.M Ranjithkumar and Ms. S.Sinthamani, Assistant Professor, attended online webinar on “Technology day talk” organized by Institution of Engineers, India, Kalpakkam local center, held virtually on 25<sup>th</sup> May, 2023.
- Ms.S.Sinthamani, Assistant Professor presented a paper ”Simulation of Metal Oxide based thin film solar cell Using Scaps ID” in the 13<sup>th</sup> International Conference on Science and Innovative Engineering, Organized by Jawahar Engineering College, Chennai held on 14<sup>th</sup> May 2023.

- Mr. R.J Venkatesh, Assistant Professor, attended and completed 5 days FDP on “Robotic Process Automtion –Uipath” from 22<sup>nd</sup> to 26<sup>th</sup> May, 2023 at Lady - Doak College, Madurai.



மதுரை லேடி டோக் கல்லூரியின் கணினி அறிவியல் துறை மற்றும் iQAC, UiPath Academy Alliance மற்றும் ICT Academy of Tamil Nadu இணைந்து, கல்லூரியின் 75வது ஆண்டு கொண்டாட்டத்தின் ஒரு பகுதியாக, ரோபோடிக் செயல்முறை ஆட்டோமேஷன் அசோசியேட், (RPA Associate) பற்றிய 5 நாள் பயிலரங்கைவரை நடைபெற்றது. கணினி அறிவியல் இணைப் பேராசிரியரும் உதவித் தேர்வுக் கட்டுப்பாட்டாளருமான முனைவர் எஸ்தர் ராணி ஜே.ஏ.ஆசிரியர் மேம்பாட்டுத் திட்டம் தொடங்கியது. கணினி அறிவியல் துறைத் தலைவர் மற்றும் இணைப் பேராசிரியரும், ICT அகாடமி ஒருங்கிணைப்பாளர் முனைவர் ஜெயச்சந்திரா வரவேற்றார். முதல்வர் மற்றும் செயலாளர் முனைவர் கிறிஸ்டியானா சிங் சிறப்புரையாற்றினார்.

**மாலை நியூஸ்**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**NEWSLETTER**

**EDITORIAL TEAM**

**Dr. KR. Santha, Vice Principal & HOD**

**Dr. Sudhakar K Bharatan, AHOD**

**Dr. R. Karthikeyan, Associate Professor**

**Ms. S .Sinthamani, Assistant Professor**

**Mr. Sabari S, III year**