



NARASARAOPETA
ENGINEERING COLLEGE
(AUTONOMOUS)

NEWS LETTER

ELECTRA

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Shaik Kalam Sabir
Pallapu Gopichand
Kotte Gayathri
Marre Gopikrishna
Sanaka Bhaavani

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Department of
ELECTRICAL AND ELECTRONICS ENGINEERING

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- | | |
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| 4. Kotte Gayathri | (III EEE) |
| 5. Marre Gopikrishna | (IV EEE) |
| 6. Sanaka Bhaavani | (IV EEE) |

Vision

- ❖ To impart student Centric Education in the field of Electrical & Electronics Engineering to transform the individuals into competent Engineers with a focus on research and ethics.

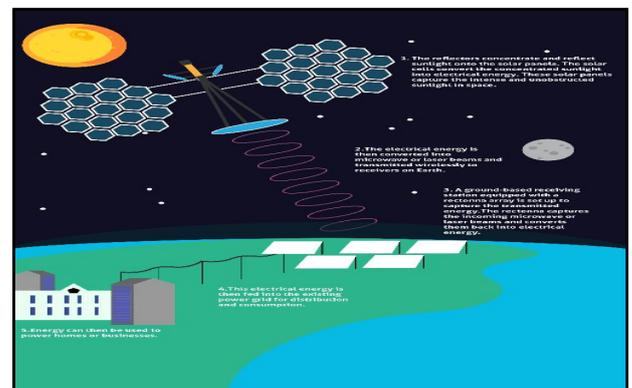
Mission

- ❖ To provide knowledge-based technology and infrastructure to meet the needs of industry and Society.
- ❖ To assimilate innovation and research-oriented culture to make successful professionals and entrepreneurs.
- ❖ To encourage lifelong learning with ethics among the students so as to make them as responsible individuals.

MODERN TRENDS IN TECHNOLOGY

SPACE BASED SOLAR POWER

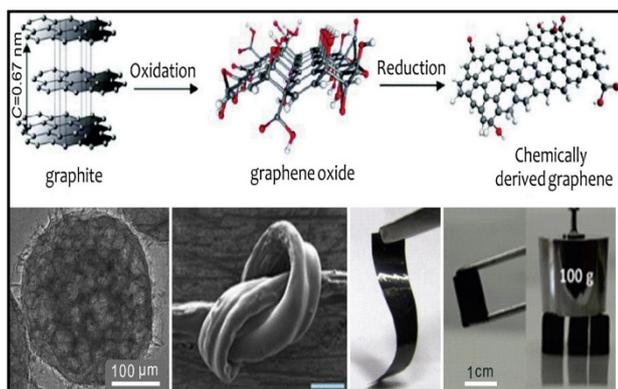
Space-based solar power is an idea so beautiful, so tantalizing that some argue it is a wish worth fulfilling. A constellation of gigantic satellites in geosynchronous orbit (GEO) nearly 36,000 kilometers above the equator could collect sunlight unfiltered by atmosphere and uninterrupted by night. Each mega sat could then convert gigawatts of power into a microwave beam aimed precisely at a big field of receiving antennas on Earth. Any space solar- power concept that sends energy to Earth via a microwave beam would need a large receiving station on the ground. An elliptical rectenna field 6 to 10 kilometers wide would be covered with antennas and electronics that rectify the microwaves into DC power. Additional inverters would then convert the electricity to grid-compatible AC current.



- ❖ There is no air in space, so the collecting surfaces could receive much more intense sunlight
- ❖ A satellite could be illuminated over 99% of the time.
- ❖ Power could be relatively quickly redirected directly to areas that need it most.
- ❖ Elimination of plant and wildlife interference.

GRAPHENE-BASED MATERIALS FOR SUPER CAPACITOR ELECTRODES

Supercapacitors or ultra-capacitors have attracted considerable recent attentions due to their high power density, high charge/discharge rates, and long cycle life performance. They are considered as one of the most promising electrochemical energy storage devices, having a potential to complement or eventually replace the batteries for energy storage applications.



Graphene is the well-known two-dimensional carbon monolayers composed of all-sp²-hybridized carbons with some of the most intriguing properties, i.e., lightweight, high electrical and thermal conductivity, highly tunable surface area, strong mechanical strength and chemical stability. These outstanding properties enable graphene and graphene-based materials to find applications in high performance structural nano composites, electronics, and environmental protection and energy devices including both energy generation and storage. The combination of these outstanding physical, mechanical and chemical properties make graphene-based materials more attractive for electrochemical energy storage and sustainable energy generation.

Faculty Focus

FDPs Attended:

❖ The following faculty members are participated & successfully completed in the AICTE recognized FDP on “**SAR, OBE and NBA**” conducted by Media Engineering Department from **04-12-23 to 08-12-23** organized by NITTTR, Chandigarh.

1. Mr Sk. Abdul Kalam
2. Mr M. Chandra Sekhar
3. Mr. G. Nagaraju
4. Mr G. Naveen
5. Mrs P. Bramaramba vathi
6. Mrs. P. Raghava Rani

❖ **Mr. Sk. Abdul Kalam** has successfully completed “**Machine Learning-Fundamentals and Applications**” an online non-credit course authorized by IIPe and offered through IIPe Outreach on **31-01-2024**.

❖ **Dr. P. Lakshmanan** has successfully participated in the five-day online FDP on “**Microgrid: Operation, Control and Protection**” held during **April 18-22, 2024** at Department of Electrical Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, India.

❖ **Dr. Sk. Md. Shareef** has successfully participated in one week National Level online FDP on “**Generative AI Models and Applications of Machine Learning**” from **21-05-2024 to 25-05-2024** Organized by the Department of Computer Science & Engineering at Shri Vishnu Engineering College for Women, Bhimavaram, Andhra Pradesh.

❖ **Dr. P. Lakshmanan** has successfully participated in Hybrid-Mode Short-Term Course and FDP on “**Application of AI & ML on Renewable Energy and EV Technologies**” (AAMREET-2024) organized by Department of Electrical Engineering, NIT

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ROURKELA from 08-06-2024 to 12-06-2024.

NPTEL Course Details:

Name of the Faculty	Title	Course Duration
G. Nagaraju	Cloud Computing	Jan-Apr, 2024
Sk. Abdul Kalam	Cloud Computing	Jan-Apr, 2024
G. Naveen	Cloud Computing	Jan-Apr, 2024
P.Bramarambavathi	Cloud Computing	Jan-Apr, 2024



WORKSHOP PROGRAM

- ❖ The department of EEE Organized one week workshop on “**PLC based Logic Gates**” in Association with Power Integrated Solutions, Trichy from **05-02-2024 to 10-02-2024**.



- ❖ The II B. Tech I Sem Students are participated in this workshop & it was explained by Mr. Madhan Kumar, Senior Technical Executive, Power Integrated Solutions.



Organized Programs:

SEMINAR PROGRAM

- ❖ The department of EEE organized A Seminar on “**Exploring an Academic Association between IET and NEC**” In Association with IQAC, on 23-01-2024.



- ❖ The Principal Dr. M. Sreenivasa Kumar & HOD of EEE Dr. P. Lakshmanan addressed the students.

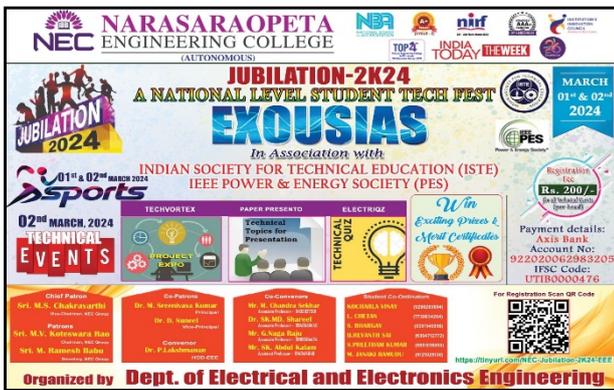
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JUBILATION-2K24

- ❖ The department of EEE organized “A National level Student TECH-FEST” In Association with Indian Society for Technical Education (ISTE) & IEEE POWER & ENERGY SOCIETY (PES) on 01-03-2024 & 02-03-2024.



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

JUBILATION-2K24 A NATIONAL LEVEL STUDENT TECH FEST EXOUSIAS

In Association with
INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) & IEEE POWER & ENERGY SOCIETY (PES)

01st & 02nd MARCH 2024

02nd MARCH 2024 TECHNICAL EVENTS

TECHVORTEX, PAPER PRESENTATION, TECHNICAL QUIZ, Win Exciting Prizes & Merit Certificates

Registration Fee: Rs. 200/- (with Merchandise Item Included)

Payment details:
Axis Bank
Account No: 922023062983205
IFSC Code: UTIB0001176

Organized by **Dept. of Electrical and Electronics Engineering**



- ❖ The Technical Quiz Program was conducted by department of EEE on 02-03-2024.



- ❖ Technical Paper Presentation Contest was conducted on 02-03-2024 at seminar hall, department of EEE.



FAREWELL PROGRAM

- ❖ The department of EEE III Year Students Organized a Farewell function for IV Year Students held on 11-03-2024.

- ❖ The Project Expo Event was conducted by department of EEE on 02-03-2024.



Head of the Department Dr.P.Lakshmanan, Convenor Mr.Sk. Abdul Kalam and Department Faculty.

FDP PROGRAM

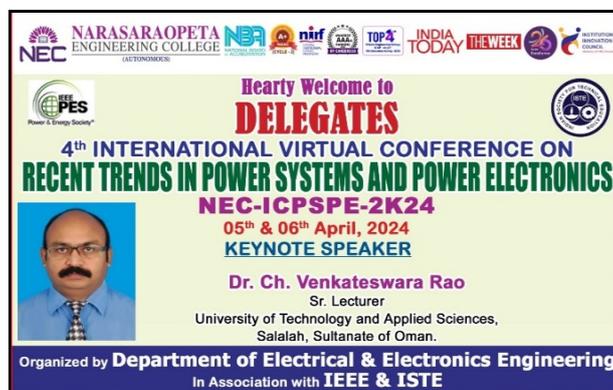
- The department of EEE & IQAC organized Five Day Faculty Development Program on “NSQF Aligned Skill Development” in Association with NITTTR, Chandigarh from 19-02-2024 to 23-02-2024.



- Dr. Ch. Venkateswara Rao, Sr. Lecturer, University of Technology and Applied Science, Salalah, Sultanate of Oman, deliver Keynote address Virtually about his research experience and insides on Emerging Technologies on 05-04-2024.

4th INTERNATIONAL VIRTUAL CONFERENCE

- The department of EEE organized 4th International Virtual Conference on “Recent Trends in Power Systems and Power Electronics – 2K24” (NEC-ICPSPE-2K24) which will be held on 05-04-2024 & 06-04-2024 In Association with IEEE & ISTE.



- Dr. V. S. Sriraja Balaguru, Assistant Executive Engineer / Electrical / IT, TNEB Headquarters, Chennai, deliver Keynote address virtually about recent technologies in Power Electronics & Power Systems and Applications on 05-04-2024.



- The Conference Poster is released by the honorable Chairman Sri M. V. Koteswararao Garu, Principal Dr. M.Sreenivasa Kumar, Vice-Principal Dr.D.Suneel, and

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❖ The enthusiastic participants gave outstanding feedback about keynote speakers and helped in attaining the knowledge.



Student Focus:

NPTEL Course Details:

Year & Sem	Title	Course Duration	No. of Students Completed
IV-I	Cloud Computing	Jan-April, 2024	02
	Cloud Computing & Distributed Systems	Jan-April, 2024	03
	Introduction To Internet of Things	Jan-April, 2024	03
	Data Mining	Jan-April, 2024	01
III-I	Cloud Computing	Jan-April, 2024	03
	Cloud Computing & Distributed Systems	Jan-April, 2024	04
	Introduction To Internet of Things	Jan-April, 2024	04
	Data Mining	Jan-April, 2024	01
	Design Technology & Innovation	Jan-April, 2024	02
II-I	Cloud Computing	Jan-April, 2024	28
	Cloud Computing & Distributed Systems	Jan-April, 2024	02

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AICTE - PARAKH

- ❖ From III B. Tech, II Sem EEE, 60 Students have attended AICTE-PARAKH Student Learning Assessment and completed on their respective fields.



Student Learning Assessment

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI





S BHARGAV (SLAS1113477)
3rd Year
ELECTRICAL AND ELECTRONICS ENGINEERING
NARASARAOPETA ENGINEERING COLLEGE (1-2146711)

Date : 22-02-2024
Type : Self-Assessment

Overall Rating

★★★★★

★★★★★ Excellent
★★★★☆ Very Good
★★★☆☆ Good

- ❖ From II B. Tech, II Sem EEE, 43 Students have attended AICTE-PARAKH Student Learning Assessment and completed on their respective fields.



Student Learning Assessment

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, NEW DELHI





A. MAHESWARA SAI (SLAS1500266)
2nd Year
ELECTRICAL AND ELECTRONICS ENGINEERING
NARASARAOPETA ENGINEERING COLLEGE (1-2146711)

Date : 25-02-2024
Type : Self-Assessment

Overall Rating

★★★★☆

★★★★★ Excellent
★★★★☆ Very Good
★★★☆☆ Good

STUDENT ACHIEVEMENTS :

SANKRANTHI SAMBARALU-2024

- ❖ **Y. Balaji (23471A0232)**, of I EEE has won **First Prize** in the event of **Traditional Dress Competition** conducted on the occasion of **Sankranti Sambaralu-2024** organized by Narasaraopeta Engineering College on **08-01-2024**.
- ❖ **Sk. Fathima Bi (22471A0226)**, of II EEE has won **Consolation Prize** in the event of **Traditional Dress Competition** conducted on the occasion of **Sankranti Sambaralu-2024** organized by Narasaraopeta Engineering College on **08-01-2024**.

MAHOSTAV GOT TALENT

- ❖ **D.Naganjali (22475A0222)**, of III EEE has won the **Second Prize** in the events of **TRADITIONAL YOGASANA (WOMEN) & MAHOSTAV GOT TALENT** organized by **VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH, GUNTUR, ANDHRA PRADESH**, from **01-02-2024 to 03-02-2024**.



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VIDYUT TARANG-2K24

- ❖ Sk. Mohiddin Basha (21471A0247) & Sk. Shahabaj (21471A0249), of IV EEE has won **Third Prize** in the event of **Innovarena** in VIDYUT TARANG-2K24 organized at **COLORIDO 2024 - A National level Technical, Cultural and Sports FEST** held on **16-02-2024**.
- ❖ D. Naganjali (22475A0222) & K. Sai Leela (22475A0226), of III EEE has won **Third Prize** in the event of **Posto-Priso** in VIDYUT TARANG-2K24 organized at **COLORIDO 2024 - A National level Technical, Cultural and Sports FEST** held on **16-02-2024**.

ESWAR FEST-2K24

- ❖ T. Kusuma Reddy (22471A0225), K. Sai Leela (22475A0226) & M. Sowjanya (22475A0238), of III EEE has won **First Prize** in the event of **Poster Presentation** in the National Level Technical & Cultural ESWAR FEST-2K24 held on **24-02-2024**.



- ❖ A. Susmitha Lakshmi (22475A0225) & B. Bala Sai Reddy (22475A0224), of III EEE has won **First Prize** in the event of **Paper Presentation** in the National Level Technical & Cultural ESWAR FEST-2K24 held on **24-02-2024**.



JUBILATION-2K24

- ❖ V. Triveni (22471A0230) & T. Kusuma Reddy (22471A0225), of III EEE has won **Second Prize** in the event of **Technical Paper Presentation** as part of JUBILATION-2K24 held during **01-03-2024 & 02-03-2024**.



- ❖ R. Ramya (20471A0254) & P. Sarath Kumar (20471A0230) of IV EEE has won **First Prize** in the event of **Project Expo** as part of JUBILATION-2K24 held during **01-03-2024 & 02-03-2024**.



- ❖ P. Rosaiah (21475A0209) & N. Ramesh (21475A0250) of IV EEE has won **Second Prize** in the event of **Project Expo** as part of JUBILATION-2K24 held during 01-03-2024 & 02-03-2024.



- ❖ V. Pranay Naga Sai (21475A0230) of IV EEE has won **Third Prize** in the event of **Project Expo** as part of JUBILATION-2K24 held during 01-03-2024 & 02-03-2024.



- ❖ V. Pranay Naga Sai (21475A0230), M. Kesava Krishna (21475A0221) & T. Lakshmi Rahul (21475A0218) of IV EEE has won **First Prize** in the event of **Technical Quiz** as part of JUBILATION-2K24 held during 01-03-2024 & 02-03-2024.



- ❖ S. Anil (22471A0208), N. Pavan Kumar (22475A0253) & V. Sai Ram (22475A0252) of III EEE has won **Second Prize** in the event of **Technical Quiz** as part of JUBILATION-2K24 held during 01-03-2024 & 02-03-2024.



INTERNATIONAL WOMEN'S DAY

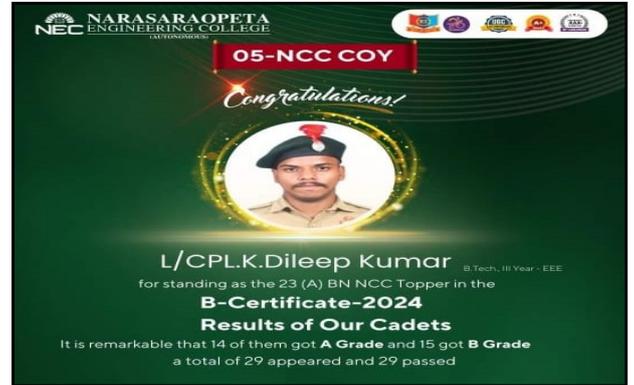
- ❖ J. Indu (22471A0209) of II EEE has won **First Prize** in the event of **Poster Presentation** conducted as a part of International Women's Day -2024 organized by Narasaraopeta Engineering College held on 15-03-2024.

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- ❖ **M. Sowjanya (22475A0238) & G. Anusha Glory (22475A0239)** of III EEE has won **Second Prize** in the event of **Cooking without Fire** conducted as a part of International Women's Day -2024 organized by Narasaraopeta Engineering College held on **15-03-2024**.
- ❖ **M. Sowjanya (22475A0238)** of III EEE has won **First Prize** in the event of **Best Costume** conducted as a part of International Women's Day -2024 organized by Narasaraopeta Engineering College held on **15-03-2024**.



Academic Toppers :

- ❖ The following students are secured with highest marks in their respective semester results.

GATE-2024

- ❖ The following IV EEE Students are Qualified Electrical Engineering paper in GATE-2024.



I – B.Tech I – SEM



II – B.Tech I – SEM

23 (A) BN NCC EXAMS

- ❖ **L/CPL K. Dileep Kumar** of III EEE Student has excelled as the **Topper of the 23(A) BN NCC** in the B-Certificate Examinations held in February-2024.

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
III B.Tech. I Semester, EEE Toppers List (2021 Batch)

V. TRIVENI 21471A0230 8.60	V. SRUTHI 21471A0228 8.47	Y. SIREESHA 21471A0232 8.47	V. SAI RAM 22475A0252 8.47	P. SRINIVASU 22475A0267 8.40
D. VIDYALAKSHMI 22475A0223 8.33	B.O.K. SANTOSH 22475A0249 8.33	N. PAVANKUMAR 22475A0253 8.33	B. MAHESH 22475A0263 8.23	SK. SHAHID 21471A0222 8.19
V. JUMAR 21471A0229 8.19	Management, Principal, HOD & Faculty Express their Hearty Congratulations to Toppers in III B.Tech. I Sem			

III- B.Tech I – SEM

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
IV B.Tech. I Semester, EEE Toppers List (2020 Batch)

N. TEJESWARARAO 21475A0224 8.69	M. VENKATESWARA RAO 20471A0221 8.76	Y. ABHIRAM 20471A0260 8.76	R. SRIESWARI 20471A0238 8.70	S. BHAAVANI 21475A0204 8.70	D. B. T. SUNDARI 21475A0220 8.70
P. VENKATESH 21475A0244 8.67	SK. M. M. BASHA 20471A0247 8.65	M. SUPRIYA 20471A0226 8.61	R. KARTHIK 20471A0242 8.57	M. K. KRISHNA 21475A0221 8.57	B. BALAGURAVAIHAH 21475A0248 8.57
Management, Principal, HOD & Faculty Express their Hearty Congratulations to Toppers in IV B.Tech. I Sem					

IV- B.Tech I – SEM

INDUSTRIAL VISITS:

As a part of Academics students are required to visit industries in order to get the practical knowledge and industrial exposure.

- ❖ The II EEE students are visited 765/400 kV Substation Power Grid Corporation of India. Ltd, Annavaram



- ❖ The IV B.Tech students are visited Hydro Power Plant located at Srisailam on 22-06-2024.



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TRAINING PROGRAMS ORGANIZED

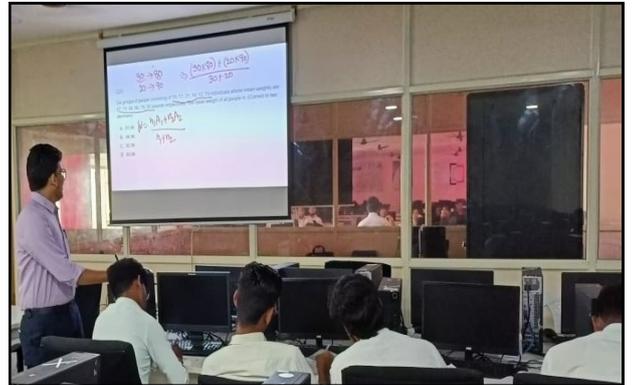
- ❖ CRT – Training Program is conducted for III & II B. Tech EEE Students from 05-01-24 to 18-01-24 organized by Bytexas team.



- ❖ Coding Assessments are conducted for III B. Tech EEE Students from 08-01-24 to 10-01-24 organized by Tech Hub team.



- ❖ TCS Specific Program is conducted for IV B. Tech EEE Students from 24-01-24 to 07-02-24 organized by Bytexas team.



- ❖ Microsoft AI Odyssey Program is conducted for II B. Tech EEE Students from 23-01-24 to 05-02-24 organized by Internal team.



- ❖ CRT – Training Program is conducted for II B. Tech EEE Students from 11-03-24 to 28-03-24 organized by Bytexas team.



- ❖ CRT – Training Program is conducted for III B. Tech EEE Students from 06-05-24 to 18-05-24 organized by Bytexas team.

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Placements :

- ❖ 5 Students of IV-EEE are placed in CAPE Electric Pvt. Ltd. With a package of 4LPA on 18-01-2024.



- ❖ 2 Students of IV-EEE are placed in ITC Limited, Guntur, with a package of 42LPA on 02-02-2024.
- ❖ 5 Students of IV-EEE are placed in TVS Sundaram Fasteners Ltd.. With a package of 4LPA on 28-03-2024.
- ❖ 3 Students of IV-EEE are placed in NEOLYC Telecommunication, With a package of 4 LPA on 03-04-2024.

ALUMNI VOICE :

It is an immense pleasure to say that I was a part of NEC. The facilities are really very kind & approachable when any need arises. Today, I am in good position it's because of what I have learnt from NEC. The Professors are dedicated experts & helpful in their respective subjects.

Their experience helps us to learn more about industrial relevance of the subjects. There are many co-curricular & extra-curricular activities conducted by the NEC. Finally, I would like to thank the entire NEC family for providing such a wonderful educational platform for students from different corners of India.



**A. Bhargav Mahesh,
Trainee Engineer,
Accenture,
Batch: 2020-2024**

STUDENT'S VOICE :

I am proud to be part of NEC, the college not only imparts knowledge but also instills life skills in us to make us responsible person. In this competitive and expensive era, the objective of NEC imparting quality education of affordable cost in really praise worthy. Thanks to all my staff and NEC group.



**22471A0239
Y. Sreeja**