

# Nilachala News

## e-Connect



**NILACHALA POLYTECHNIC COLLEGE OF ENGINEERING**

Bhubaneswar, Odisha, [www.nilachalpolytechnic.ac.in](http://www.nilachalpolytechnic.ac.in)

• Vol : I

• Issue : I

• January - June, 2025

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  - Yoga Camp of 1<sup>st</sup> Sem. : 2024-25
  - Annual Fest & Award Ceremony :  
2024-25 of 1<sup>st</sup> Year, 2<sup>nd</sup> Year &  
3<sup>rd</sup> Year

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Dear Readers

Welcome to the first issue of the e-Connect of Nilachala News!

The present generation need to train themselves with the Digital Technology insights and then the areas of emerging technologies which are in high demand in the job market.

After the Age of Digital Technology of the Third Industrial Revolution during 1900s, now the world has entered the Fourth Industrial Revolution, popular as – Industry 4.0. The current era is a fusion of technologies and is marked by rapid technological breakthrough in areas like AI, robotics, the Internet of Things (IOT) and more.

The era of Fourth Industrial Revolution is expected to mark the beginning of an imagination age where creativity and imagination are the primary drivers of economic value.

Let the present generation be provided with a detail idea of 1IR, 2IR, 3IR and now 4IR. Here is the link – [https://en.wikipedia.org/wiki/Fourth\\_Industrial\\_Revolution](https://en.wikipedia.org/wiki/Fourth_Industrial_Revolution)

Our e-connect issues will provide readers with the exciting options for growth and impact to explore the future of technology in areas of Data Scientist & Analyst, AI & ML Engineer, Software Developer, Cyber Security Specialist, Cloud Computing Engineer, Graphic Designer and many more.

All students irrespective of the engineering programmes need to explore the courses of emerging technologies for specific use in their core areas of engineering. The present generation essentially should add-in skills for a strong foundation and also to decorate their CVs for the trending job market.

**Ms. Mala Acharya**  
Chief Editor

## Know about the Emerging Technology

“Believe you can and you are halfway there”

– Theodore Roosevelt

**Dr. Raj Reddy, the father of AI in India**, is hailed for his path-breaking contribution to speech recognition and pioneering AI research. His work continuous to inspire generations to come, making India a global leader in AI innovation and technology's transformative potential.

Dr. Dabbala Rajagopal “Raj” Reddy, born on June 13, 1937, in Katur, Andhra Pradesh, India, is a pioneering computer scientist renowned for his significant contributions to artificial intelligence (AI) and robotics.

Dr. Reddy earned his Bachelor's degree in civil engineering from the College of Engineering, Guindy (now part of Anna University, Chennai) in 1958. He later obtained a Master's degree from the University of New South Wales, Australia, in 1960. He achieved his Ph.D. in computer science from Stanford University in 1966, under the mentorship of AI pioneer John McCarthy.



Dr. Raj Reddy

Following his doctoral studies, Dr. Reddy served as an Assistant Professor at Stanford University from 1966 to 1969. He then joined Carnegie Mellon University (CMU), where he has been a prominent figure for over five decades. At CMU, he held positions such as the founding director of the Robotics Institute and served as the Dean of the School of Computer Science.

The Indian-American computer scientist conducted his early research at Stanford and then conducted his further study at Carnegie Mellon University in 1969. His research mainly considered the motor aspect of intelligence, such as speech, language and robotics. Over the years, with the help of his colleagues, Dabbala Rajagopal Raj Reddy created several spoken language systems that focused on various aspects related to robots, such as voice, vocabulary etc. With the help of his colleagues, he made many contributions to computer architecture and easy access to information for many people, and the most major contribution was the first system proficient in non-stop speech recognition. Some of his ideas were adopted as the “blackboard model” for multiple knowledge sources and were also adopted in the books on artificial intelligence. After this incredible research, he was regarded as the earliest artificial intelligence pioneer.

In 1981, the France Centre was the centre aimed at improving human resources in third-world countries using Information Technology. Dabbala Rajagopal Raj Reddy became the major scientist for the centre. Reddy's other major interest has been exploring the role of Technology in the Service of Society. In the 1990s, Reddy with his colleagues started Universal Digital Library Project to scan media, including various forms of media such as music, books etc.

Dabbala Rajagopal Raj Reddy helped create the Rajiv Gandhi University of Knowledge Technologies for the welfare of rural students. This university provides them with all the faculties required by a normal student. Reddy made the best provisions possible to give education to India's rural population. He believed every village should have online access to information, and every student should have digital literacy because the world is approaching the digital era. The students should have digital literacy to understand the upcoming period.

Dabbala Rajagopal Raj Reddy always contributed the best for India and internationally; his contributions are quite well established. He introduced many new sciences like Machine Intelligence and Robotics. He also contributed to the executive summary, final report, and others for the report of the NASA Study Group. He also contributed to many substructures, Magnificent challenges of Artificial Intelligence, and many more. He was always referred to as the earliest pioneer of artificial intelligence.

In 1994, Dr. Reddy became the first person of Asian origin to receive the Association for Computing Machinery (ACM) Turing Award, often regarded as the “Nobel Prize of computer science,” for his foundational contributions to AI.

His accolades also include the Legion of Honor (1984), the Padma Bhushan (2001), the Okawa Prize (2004), the Honda Prize (2005), and the Vannevar Bush Award (2006).

Dr. Reddy's visionary work has not only shaped the trajectory of artificial intelligence research but has also inspired a generation of computer scientists and engineers. His dedication to education and innovation continues to influence the global technological landscape.



## Career Prospectives in Emerging Technologies

Emerging technologies in computer science include advancements in areas like Artificial Intelligence (AI), Quantum Computing, Blockchain, and Extended Reality (XR). These technologies are driving innovation across various industries and creating new possibilities for problem-solving and automation.

Here's a more detailed look at some key areas:

1. **Artificial Intelligence (AI) and Machine Learning (ML):** AI and ML are transforming how we interact with technology and are being applied in diverse fields like healthcare, finance, and virtual assistants. AI-powered systems can automate tasks, predict outcomes, and personalize user experiences.
2. **Quantum Computing:** Quantum computing has the potential to revolutionize computation by solving complex problems that are currently intractable for classical computers. It could lead to breakthroughs in drug discovery, materials science, and cryptography.
3. **Blockchain Technology:** Blockchain offers secure and transparent transactions through its decentralized nature. It's being used in cryptocurrencies, supply chain management, and healthcare records, among other applications.
4. **Extended Reality (XR):** XR encompasses Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR), providing immersive and interactive digital experiences. VR creates entirely digital environments, while AR overlays digital information onto the real world.
5. **Internet of Things (IoT):** IoT involves connecting devices and enabling them to share data. This technology is being used in smart homes, smart cities, and various industrial applications.
6. **Edge Computing:** Edge computing brings computation and data storage closer to the source of data, reducing latency and improving performance. This is particularly important for applications like self-driving cars and real-time analytics.
7. **Robotics:** Robotics is advancing rapidly, with applications ranging from industrial automation to healthcare and exploration. Robots are becoming more sophisticated, capable of performing complex tasks with greater autonomy.
8. **Cybersecurity and Ethical Hacking:** With the increasing reliance on technology, cybersecurity is crucial. Ethical hacking plays a vital role in identifying and mitigating security vulnerabilities.
9. **Other Emerging Technologies:** Other notable trends include cloud computing, personalized medicine, sustainable technologies, and the development of digital twins. These technologies are shaping the future of computer science and impacting various industries.

These emerging technologies are not just theoretical concepts; they are actively being developed and deployed, creating new opportunities for innovation and driving significant changes across various sectors.

**The tech industry** has seen its share of ups and downs, but one thing remains clear: technology continues to shape our world and create opportunities. For students and professionals who want to prepare for the future, understanding which tech careers are in demand can help you confidently navigate this dynamic field.

Despite recent fluctuations in the tech market, the demand for skilled professionals remains strong. Technology is embedded in nearly every industry, from healthcare and finance to education and entertainment. As businesses continue to adopt digital solutions, careers in the tech industry are still vital for driving new technologies.

Let's explore a few trends supporting in-demand tech jobs:

- **Digital transformation:** Companies are investing in cloud computing, AI, and data analytics to improve efficiency and customer experiences.
- **Cybersecurity:** The need for powerful security measures and cybersecurity professionals has never been higher as cyber threats evolve.
- **Emerging technologies:** Fields like blockchain, quantum computing, and augmented reality are creating entirely new career paths.

While specific roles may ebb and flow, tech market jobs are still needed to power an industry that will always be the cornerstone of progress.

**Benefits of Tech Careers:** Working in tech offers many benefits that make it a rewarding career choice:

- **High earning potential:** Tech roles often come with competitive pay that reflects the specialized skills required.
- **Flexible jobs:** Many tech jobs offer remote or hybrid work options to create a better work-life balance.
- **Growth opportunities:** Rapid advancements in technology mean there's always something new to learn, so your skills will stay sharp and in demand.
- **Meaningful work:** Tech professionals solve real-world problems, from improving healthcare outcomes to creating sustainable energy solutions.
- **Global networks:** Tech skills are in demand worldwide, so you could enjoy the flexibility of working in another country or collaborating with international teams.





## Principal' Message

Dear Readers

Wish you all the best in the journey of life!

Twists and turns in career path builds a competent individual in your personality and elevates you to achieve a better altitude in career goal. At present career in the field of engineering demands an expert hand in computer skills. The trending job market of the age of digital technology is a world of projection and presentation.

It is really great to see the Galaxy of Alumni of the institute matching to the demands of the tech savvy industries. Our students of core engineering branch have also updated their skills in software courses and serving in reputed companies in India and also abroad. Computer skills with engineering career are crucial for design, analysis, stimulation and communication in modern engineering practice. We feel proud of many of our students who are serving in various departments of Govt. of Odisha and Govt. of India with their competency and higher level of proficiency.

The Institute has consistently maintained a good result in Semester examinations, a testament to its rigorous academic rigor and commitment to student success. There is continuous effort to update students with training facilities for their future growth to achieve in-demand positions in the tech market and engineering fields. In addition to this, training classes on survival skills are provided on regular basis. Also fruitful participation of students in co-curricular and extra co-curricular activities is encouraged to improve their over-all personality.

The institute with its will to be the best is on its 28<sup>th</sup> year of relentless journey of Academic Excellence. With Silver Jubilee celebration in 2022, it promises to strive for even greater heights and as such this year the institute has been renamed as Nilachala Polytechnic College of Engineering and is all get-set-go with state-of-the-art infrastructure and reforms in teaching methodologies and training programs to match the trending corporate world.

*B. Patra*

**Dr. Bishnu Ch. Patra**  
Principal

## Our Star Recruiters





## Events @Campus Halchal



Priyadarshini Samal performing in Mono Act Competition-Zonal Poly Fest-2024-25



Tanveer Ahmad performing in Song Competition-Zonal Poly Fest-2024-25



Priyadarshini Samal receiving award in Mono Act Competition-Zonal Poly Fest-2024-25



Priyadarshini Sahoo performing in Classical Dance Competition-Zonal Poly Fest-2024-25



Smart Agriculture System using IoT Project Work Winner in Innovative Project Display Competition and Mega Quiz Competition at Trident Academy of Technology



Smart Agriculture System using IoT Project Work -Team of Project Work with the Award



## Events @Campus Halchal



Address by Secretary-cum-Managing Trustee - Er. Saroj Kumar Sahoo in the State Level Junior Red Cross Study-cum-Training Camp held in our campus premises



Address by BPUT Vice-Chancellor - Prof. Amiya Kumar Rath in the State Level Junior Red Cross Study-cum-Training Camp held in our campus premises



Felicitation to BPUT Vice-Chancellor - Prof. Amiya Kumar Rath in the State Level Junior Red Cross Study-cum-Training Camp held in our campus premises



Mr. Sabyasachi Mishra, Ollywood Cine Artist as Eminent Guest in the State Level Junior Red Cross Study-cum-Training Camp held in our campus premises



Felicitation to Mr. Sabyasachi Mishra, Ollywood Cine Artist in the State Level Junior Red Cross Study-cum-Training Camp held in our campus premises



Yoga Camp for 1<sup>st</sup> year students, Batch : 2024-25



## Events @Campus Halchal



Anchoring by students of 2<sup>nd</sup> year in the Annual Fest and Award Ceremony - 2025



Dance performance by girls in the Annual Fest and Award Ceremony - 2025



Dance performance by girls in the Annual Fest and Award Ceremony - 2025



Dance performance by boys in the Annual Fest and Award Ceremony - 2025



Dance performance by girls in the Annual Fest and Award Ceremony - 2025



Dance performance by girls in the Annual Fest and Award Ceremony - 2025



## Events @Campus Halchal



Award to Piyush Das, Electrical branch for his Academic Excellence in 1<sup>st</sup> Sem., SCTE & VT Exam. by Eminent Guest - S. Antaryami Panda



Award to Kabyanshi Mishra, Civil branch for her Academic Excellence in 1<sup>st</sup> Sem., SCTE & VT Exam. by NHSS Principal - S. Ashok Kumar Mohanty and Vice-Principal - Er. Debadutta Mohapatra, Nilachala Polytechnic College of Engineering



Felicitation to Guest - Eminent Cine Artist, S. Antaryami Panda during Annual Fest and Award Ceremony - 2025



Drama performance by girls during Annual Fest and Award Ceremony - 2025



3<sup>rd</sup> year students enjoying the Annual Fest and Award Ceremony - 2025



1<sup>st</sup> year students enjoying the Annual Fest and Award Ceremony - 2025



## Events @Campus Halchal



Felicitation to Guest - Eminent Cine Artist, Sri Pupinder Singh during Annual Fest and Award Ceremony - 2025



Award to Bidusmita Dalei, Electrical branch-Winner in Shot-put throw (Girls) by Secretary-cum-Managing Trustee-Er. Saroj Kumar Sahoo and Eminent Guest - Sri Pupindar Singh



Award to Somnath Das, Comp. Sc. branch for his Academic Excellence in 3<sup>rd</sup> Sem., SCTE & VT Exam. by Secretary-cum-Managing Trustee-Er. Saroj Kumar Sahoo and Eminent Guest - Sri Pupindar Singh



Award to Chandra Bhan, Mechanical branch for his Academic Excellence in 3<sup>rd</sup> Sem., SCTE & VT Exam. by Secretary-cum-Managing Trustee-Er. Saroj Kumar Sahoo and Eminent Guest - Sri Pupindar Singh



Award to Pramod Murmu, Comp. Sc. branch - Winner of Creative Writing Competition by Secretary-cum-Managing Trustee-Er. Saroj Kumar Sahoo and Eminent Guest - Sri Pupindar Singh



Award to Swayam Samparna Dash, Comp. Sc. branch - Winner of Debate Competition by Secretary-cum-Managing Trustee-Er. Saroj Kumar Sahoo and Eminent Guest - Sri Pupindar Singh



## Events @Campus Halchal



Felicitation to Bibhash Ranjan Parida, Lecturer, Comp. Sc. & Engg. for his guidance to the team in Project Work- Smart Agriculture System using IoT



Award to Padmalaya Meher, Comp. Sc. branch for her Academic Excellence in 5<sup>th</sup> Sem., SCTE & VT Exam. by Principal-Dr. Bishnu Ch. Patra



Final year students of all branches awarded with medals for their Academic Excellence in 5<sup>th</sup> Sem. SCTE & VT Exam. by all department HODs and Vice-Principal, Er. Debadutta Mohapatra



Final year students of all branches awarded with medals for their Academic Excellence in 5<sup>th</sup> Sem. SCTE & VT Exam. by all department HODs and Vice-Principal, Er. Debadutta Mohapatra



Final year students of all branches awarded with medals for their Academic Excellence in 5<sup>th</sup> Sem. SCTE & VT Exam. by all department HODs and Vice-Principal, Er. Debadutta Mohapatra



Musical concert programme performed by Bobby Raj, Concert Master and his group during Valediction ceremony of final year students



## Top Placement -2025

**Krishnajyoti Ojha**  
Mechanical Engg.  
**3.3 Lakh/Annum**  
Technip Energies



**Prem Gupta**  
Civil Engg.  
**2.5 Lakh/Annum**  
Sobha Projects



**Chinmay Sankar**  
Mechanical Engg.  
**3.0 Lakh/Annum**  
Beumer India



**Guru P. Mohapatra**  
Mechanical Engg.  
**2.4 Lakh/Annum**  
JSW Steel Ltd.



**Subrat Kumar Sahoo**  
Electrical Engg.  
**3.0 Lakh/Annum**  
Beumer India



**Krishnajyoti Ojha**  
Mechanical Engg.  
**2.4 Lakh/Annum**  
JSW Steel Ltd.



**Uttam Kumar**  
Mechanical Engg.  
**3.0 Lakh/Annum**  
Beumer India



**Milan Pradhan**  
Mechanical Engg.  
**2.4 Lakh/Annum**  
JSW Steel Ltd.



**Sandip Kumar Sahu**  
Electrical Engg.  
**2.8 Lakh/Annum**  
Tata Power Ltd.



**Adyasa Mishra**  
Comp. Sc. & Engg.  
**1.44 Lakh/Annum**  
Wipro Pvt. Ltd.



**Amarmani Mohanty**  
Mechanical Engg.  
**2.5 Lakh/Annum**  
Maxion Wheels Ltd.



**Saradakanta Palei**  
Electrical Engg.  
**2.5 Lakh/Annum**  
Maxion Wheels Ltd.



### Placement Summary

Total Offers : 237  
Total no. of Campus : 34



60 nos.  
Offer



48 nos.  
Offer



30 nos.  
Offer



23 nos.  
Offer



09 nos.  
Offer



09 nos.  
Offer



03 nos.  
Offer



03 nos.  
Offer



03 nos.  
Offer



*28 Years journey of Academic Excellence*



#### **Imprint Line:**

Printed and published by Dr. Bishnu Charan Patra, Principal, on behalf of Nilachala Polytechnic College of Engineering, Bhubaneswar - 24, Dist.-Khordha, Odisha and published from Nilachala Polytechnic College of Engineering, Edited by Ms. Mala Acharya, HOD, Civil Engg.



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