



NETAJI SUBHASH ENGINEERING COLLEGE

Techno City, Garia, Kolkata – 700 152

IQAC Annual Report 2021-2022

Netaji Subhash Engineering College (NSEC) has demonstrated outstanding progress across various facets of education, research, innovation, and community engagement in the academic year 2021-2022. This year has been marked by significant recognitions, technological advancements, faculty achievements, and a consistent focus on enhancing the overall academic and professional development of students.

Institutional Recognition and Awards

NSEC has earned several prestigious awards and recognitions this year:

- ❖ **Zee 24 Ghanta Education Excellence Award 2022** for “Imparting Quality Engineering Education.”
- ❖ **StartMe Up Platinum Award** by the Wadhvani Foundation, recognizing the institution’s efforts in educating, inspiring, and mentoring student ventures to be globally certified.
- ❖ **Track 2 Winner in Toycathon Physical Edition 2021-2022:** TEAM IRIIS from the AEIE department clinched the title in this Ministry of Education and AICTE-supported event.
- ❖ **Platinum Institute Award** by Wadhvani Foundation, which acknowledged NSEC's exemplary contributions through its ED-Cell and IIC activities.
- ❖ **Energy Saver** innovation team reached the finals in the IIC National Innovation Contest 2020, supported by the Ministry of Education’s Innovation Cell.

Faculty Development and Research

NSEC continues to focus on the continuous development of both its students and faculty:

- ❖ **Faculty Gold Award:** Mr. Debdeep Bhanja Chowdhury won the Faculty Gold Award from the Wadhvani Foundation for his contributions to the Entrepreneurship Development Programme.
- ❖ **Research Growth:** 25 faculty members have been recognized as research guides by universities across India, and many young faculty members are actively pursuing their doctoral research.
- ❖ NSEC faculty published **41 research papers**, including **23 papers** in national and international conferences, along with **26 book chapters**. The institution has also filed **two patents**.
- ❖ Research collaborations were established with renowned institutions like the Indian Statistical Institute, Kolkata, and several major universities such as Tripura University, Calcutta University, Jadavpur University, and MAKAUT.

Infrastructure and Digital Learning

To enhance the teaching-learning environment, NSEC invested significantly in upgrading its infrastructure and digital learning facilities:

- ❖ **Seminar Halls & Classrooms:** Six seminar halls equipped with projectors and Wi-Fi facilities, and **32 classrooms** and **five laboratories** were upgraded with projectors and LAN connectivity.



- ❖ **Digital Tools:** Google Classrooms have been widely utilized for uploading lecture materials, video lectures, podcasts, and conducting online assessments, including assignments, quizzes, and MCQ tests. This enabled seamless remote learning during the year.

Innovation, Entrepreneurship, and Research Culture

The institution has successfully promoted a culture of innovation and entrepreneurship:

- ❖ **IIC and ED Cell Activities:** NSEC's ED Cell and IIC organized various workshops, such as the **"Identification of Electronics Components with Hands-on Applications"** to foster creativity and practical skills.
- ❖ **StartMe Up Platinum Award:** NSEC's entrepreneurial efforts received global recognition through this award, which further solidifies the institution's standing as a key player in nurturing innovation.
- ❖ **Collaborative Research:** The faculty engaged in collaborative projects with reputed institutions and continued to encourage interdisciplinary research. Efforts to seek external funding for research projects were also made.

Student Professional Activities and CSR Initiatives

NSEC students demonstrated leadership and contributed to various professional and community-driven activities:

- ❖ **IEEE Workshops:** NSEC's IEEE Student Branch, in collaboration with IEEE Region 10 and IEEE Kolkata Section, is set to organize a **two-day robotics workshop**.
- ❖ **Rotaract Club Initiatives:** The **Rotaract Club** organized the **"Mahadaan 7.0"** blood donation drive, collecting 87 units of blood. Additionally, the **Hariyali Tree Plantation Campaign** and charity work including the donation of 450+ clothes and distribution of stationery on World Disability Day were notable CSR activities.
- ❖ **Student Ventures:** Several student ventures were mentored and supported under the ED Cell, which helped students transform their ideas into viable businesses.

Internship, Placement, and Skill Development

Internships and campus placements were strengthened this year, with several new initiatives:

- ❖ **Internships:** NSEC students undertook internships with renowned companies such as **Amazon, Thoughtworks, Telaverge Communication, Persistent, Xenonstack, and Tiger Analytics**, among others.
- ❖ **Microsoft Mentee Intern Engage 2022:** **Deep Narayan Bhagat**, a second-year IT student, was selected for the prestigious Microsoft Mentee Internship Program.
- ❖ **Future Skills Prime (FSP) by NASSCOM:** The FSP program was introduced for first and second-year students to build industry-relevant skills.

MOOCs, Career Counselling, and Competitive Examinations

To ensure students are well-prepared for future career paths, NSEC made strides in MOOCs and career development:

- ❖ **MOOCs:** Completing MOOCs was made compulsory for obtaining honors degrees across engineering programs. Students participated in courses from platforms such as **Swayam, NPTEL, Coursera, Edx, and Udemy**.
- ❖ **Competitive Exams:** A significant number of NSEC students excelled in the **GATE** exams and secured placements in top institutions for **M.Tech** programs, including **IITs, NITs**, and international universities like **University of Windsor** and **New Jersey Institute of Technology**.



Industry Collaboration and MOU Initiatives

NSEC enhanced its ties with industry and academic organizations to offer students additional training opportunities:

- ❖ **Collaborations:** MOUs were signed with the **Indian School of Anti-Hacking, Bombay Stock Exchange**, and several prominent companies like **Great Lakes E-Learning, GTTF, and Accenture**, focusing on skill enhancement, training, internships, and recruitment.

Policy Revisions and Implementation of TCS-iON ERP

NSEC has made considerable efforts to streamline its internal processes through policy revisions and technological integration:

- ❖ **Policy Revisions:** The Research and Development Policy, Research Policy, and a new **Intellectual Property (IP) Policy** were revised and approved by the Board of Governors.
- ❖ **ERP Implementation:** The **TCS-iON ERP solution** was implemented to streamline academic and administrative functions, enhancing efficiency in processes like procurement, data management, and overall academic administration.

Conclusion

The academic year 2021-2022 was a remarkable year for Netaji Subhash Engineering College, with numerous awards, infrastructural upgrades, student achievements, and successful collaborations. The institution remains committed to fostering a culture of excellence in teaching, research, innovation, and community engagement, ensuring that both students and faculty are equipped to thrive in a rapidly evolving global environment.



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04/11/2022
Prof. (Dr.) SUKUMAR ROY
Co-ordinator-IQAC
Netaji Subhas Engineering College
Techno City, Garia
Kolkata-700 152