



NETAJI SUBHASH ENGINEERING COLLEGE

Techno City, Garia, Kolkata – 700 152

IQAC Annual Report 2019-2020

Netaji Subhash Engineering College (NSEC), committed to excellence in education and holistic development, continued its journey in fostering innovation, quality education, and social responsibility during the academic year 2019-2020. This report outlines the key achievements, initiatives, and contributions made by NSEC in various domains, reflecting the efforts made towards institutional development and achieving academic excellence.

Achievements in Innovation and Recognition

The Institution Innovation Council (IIC) of NSEC achieved several notable accolades during the year. The Ministry of Education's Innovation Cell, Government of India, awarded NSEC a 5-Star Rating, a prestigious recognition among 1700 institutions, where only 125 institutions across India received this honor. Additionally, NSEC achieved the NIRF India Ranking 2020 in the Engineering Category (Rank Band 251-300).

The college also emerged as the Top Rank Holder in Coursera MOOCs activities, with 53,308 total learning hours, 21,061 enrollments, and 4,078 students joining Coursera, ranking first among all colleges under MAKAUT (the affiliated university). Furthermore, the Institute secured ARIIA 2020 – Band B (Rank Band 26-50) in the Atal Ranking of Institutions on Innovation Achievements.

Infrastructural Improvements

In line with technological advancements, the college implemented several infrastructural improvements. Digital classrooms were established in every department, supporting the shift to e-learning. A high-end computer center was set up to enhance computing facilities. In terms of campus safety, CCTV surveillance systems were installed across key areas including classrooms, lobbies, and other important spaces, ensuring security while enhancing responsibility and deterrence of undesirable activities.

Institutional Innovation Council (IIC) Activities

As per the guidelines from the MHRD's Innovation Cell, the Institution Innovation Council (IIC-NSEC) was actively engaged in organizing numerous events focused on entrepreneurship, innovation, and skill development. These included workshops and competitions such as Design Workshops, Smart India Hackathon, Entrepreneur's Talk, Idea to Prototype Competition, and Business Plan Competitions.

IIC earned stellar ratings in the evaluation with a score of 21.65/25 in the first quarter, 23.32/25 in the second, and a cumulative score of 44.97/50, demonstrating consistent performance and excellence in fostering innovation.

Entrepreneurship and MSME Development

NSEC submitted a proposal for recognition as a Host Institute (HI) under the "Support for Entrepreneurial and Managerial Development of MSMEs through Incubators" scheme. The proposal was approved, making NSEC eligible for a capital support of Rs. 1 Crore to support the development of plant and machinery under its Business Incubation (BI) program. Furthermore, the college initiated the Unnat Bharat Abhiyan (UBA) Scheme, adopting five villages, focusing on rural development and providing technological and educational support to enhance livelihoods in these areas.



20/11
28/08/2020

Research and Publications

Research and academic contributions remained a priority during this academic year. The faculty members of NSEC published 50 research papers in national and international journals and presented 15 papers at national and international conferences. Additionally, 51 books and book chapters were published by the faculty. A significant number of faculty members are pursuing Ph.D. under various universities, contributing to the academic stature of the institution. Four research scholars were awarded Ph.D. during the year.

Industry-Academia Collaborations

NSEC engaged in various activities that bridged the gap between academia and industry. The CII-EDC (Confederation of Indian Industry-Entrepreneurship Development Cell) facilitated the creation of start-ups by alumni, including Birpurush Private Limited and ZhakashIndia Foods Private Limited. The college organized major hackathons and competitions like Smart India Hackathon 2020 and Hult Prize 2020 to encourage student innovation and entrepreneurial spirit. Other events like the Inter-College Business Plan Competition and Cloud Fest 2019 also promoted creativity and problem-solving among students.

Student Achievements

NSEC students demonstrated exceptional performance in various national innovation contests. The ENDG@ME team secured the Runners-up position in the Smart India Hackathon 2019 Hardware Edition Finale at IISER Pune. Moreover, two students, Ms. Katha Sur and Mr. Karan Ghorai from the ECE department, won the 1st prize at the 3M-CII Young Innovators Challenge Award 2019 in the Product Innovation Division for their invention of "White Coal" made from Jute Sticks. This remarkable achievement earned them a cash prize of Rs. 3 Lakh and a trophy.

International Collaboration and Global Interaction

NSEC continues to strengthen its global presence through international collaborations. Noteworthy interactions include a visit from Dr. Rujira Chaysiri and Ms. Nattaya Tempiam of the Sirindhorn International Institute of Technology (SIIT), Thailand, where an MOU for student and faculty exchange programs was signed. Furthermore, Prof. Masaharu Seno from Okayama University, Japan, delivered insightful lectures, and a five-member delegation from Sichuan Vocational College of Information Technology, China visited the college for discussions on student/faculty exchange and joint research initiatives.

Community Social Responsibility (CSR)

The NSEC-Rotaract Club, formed in 2019, played an active role in community welfare activities. The club organized impactful events such as "No Poor Sleeps Hungry", "Mukto dhara", and "Ichchapuran" aimed at addressing the needs of the underprivileged. During the COVID-19 pandemic, the club also ran several community service projects, including "Sankalp", "Cheshta", and "Pratyasha", providing essential supplies to slum areas of the city.

Conclusion

The academic year 2019-2020 was marked by significant strides in innovation, research, infrastructural development, and social responsibility at NSEC. The college's efforts to foster academic excellence, encourage entrepreneurship, and promote community engagement reflect its commitment to holistic development. With continuous efforts to improve and evolve, NSEC is poised for even greater success in the future, driving innovation, research, and community service to new heights.



28/08/2020
Prof. (Dr.) SUKUMAR ROY
Co-ordinator-IQAC
Netaji Subhas Engineering College
Techno City, Garia
Kolkata-700 152