NiT

2021-2022

Annual Report

Narula Institute of Technology

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Principal's Message:

– Marching Ahead …......

"A desire can change nothing, a decision can change something but a determination can change everything".

It is my privilege to warmly welcome you to this great institution dedicated to those who work hard and with those who don't rest on past laurels. Narula Institute of Technology started its journey in the year 2001 with the aim of providing holistic education to the youth and empowering them so that they can be financially independent, socially conscious, morally upright and emotionally balanced. Top quality technical education with the motto of "taking you to tomorrow's technology" is our motto.

The evolution of the institute over the past decades has witnessed strong blend of state-of-the-art infrastructure and intricately intertwined human resource committed to provide professional education with thrust on creativity and innovation. The motivating environment at NiT for knowledge assimilation, generation and dissemination with a sense of social responsibility, human values and concern for social commitment has carved a niche for itself among the best technical institutes.

Maitraye Ray Kanjilal
Principal , NIT

The special emphasis is on Outcome Based Education (OBE) and Experiential Learning. It encourages the faculty members to acquire higher degrees, to publish text books/papers and participate in Seminar/Workshop/Conferences that are held not only within our country but also abroad. Even some of our students have published scientific papers in different reputed journals. The college encourages students to take part in co-curricular activities like inter collegiate competitions in outdoor/indoor sports / games, cultural events and technical paper presentation competitions etc. The college has a full-fledged Placement and Training Centre. This centre also organizes several training programs related to development of soft skills to our college students. The Placement and Training Centre has enabled our college students to get job offers from many leading organizations even before completion of their formal degree. NiT has established a strong Industry links which include some like IBM, CISCO, Samsung, Pace Bosch, Wipro, SAP, ABB, Bosch Rexroth, Mindtree, Infosys, Cognizant, Agilent,

The post pandemic obstacles globally challenged the year 2022 where we tried to regain our normal routine of past years. From the beginning of this year, the institute focused on off-line classes in full swing, to recover the lost years.

I believe, 'Improvement' is a constant journey and it is reflected in the institute's growth as we proudly bagged accreditation 'A' from NAAC and NBA, at the same time.

Dedicated faculty members and staff members worked relentlessly to achieve this honour, so that our students did not lose the faith in the belief that excellence is a continuous process and in pursuit of which the institute has made deep forays into contributing world-renowned technocrats, successful entrepreneurs, competent leaders, innovative scientists and researchers. The mission of the Institute is to produce good human being in the professional world.

I, thus, present the Annual Report of 2020-21on behalf of the Institute.

Chapter 1   <u>**Institute Profile**</u>

INTRODUCTION

Narula Institute of Technology is a leading autonomous Engineering & Management college, located at Agarpara near Kolkata under the aegis of JIS Group Educational Initiative since 2001.

It is approved by AICTE and affiliated to MAKAUT, formerly known as West Bengal University of Technology and has NBA accredited degree programmes in engineering. It boasts of the prestigious NIRF ranking among 150 selected institutes of India. It is also accredited by National Assessment and Accreditation Council (NAAC). The college has also received the notable World Bank Assisted and MHRD approved TEQIP (Phase II) grant for the advancement of Technical Education. It is eligible for receiving Central assistance under the recognition of 2(f) & 12(B) under UGCAct.

The four year B.Tech course is imparted in the streams of Computer Science Engineering, Electronics and Communication Engineering, Electrical Engineering, Civil Engineering, Information Technology, Electronics and Instrumentation Engineering and Mechanical Engineering. The institute provides a brilliant platform for pursuing higher studies through PG courses like M.Tech (CSE, ECE, EE- Power System, CE-Structural Engineering), MCA. It has expanded to include diploma programs in EE, CE and ECTC under the affiliation of West Bengal State Council of TechnicalEducation.

The institute boasts of a powerful R & D cell with immense contribution from the scholarly faculty members. There is an enormous repository of International and National Journal publications, E- books, Online Lectures which have drawn nationwide attention. With the encouragement and support from the college, around ten projects funded by organizations like UGC, DST, BRNS and AICTE are running successfully by the faculty members till date. Very recently the ECE Department has secured the MODROBS grant for upgrading their Embedded System and Electronic Design Automation Lab.

The college is in collaboration with Tech Mahindra, Reliance Jio Infocom Ltd, CII, NASSCOM, Aspire Disruptive Skill foundation, Oracle, INFOSYS, TCS, NIT Sikkim, IIT-KGP, AIT Bangkok and other organizations of repute. The students get an opportunity to interact in an international platform through seminars, conferences and special teaching-learning sessions. The student chapter plays a crucial role in organizing informative technical events within the campus. At present there are five student chapters in our college: IETE student forum of Electronics & Communication Engineering Department, ICE & ASCE of Civil Engineering Department, CSI of Computer Science Engineering, Information Technology & MCA Department and Institute of Engineers India (IEI) of Electrical Engineering Department.Apart from academics, the students get an exposure to the world of co-curricular activities which help them in shaping and grooming their personality. The students made the college proud by winning laurels in some recent cultural events organized.by.Telegraph,

Thus, the cornerstone of the successful evolution of Narula Institute of Technology lies in its modern teaching learning process, good ragging free environment, meticulous tutoring and mentoring of the future professionals of the industry as well as of academia, where the Institute's success has always been directly proportional to the success of the students.

VISION

To make the Institute excellent in technological education and research by imparting equitable, inclusive, ethical, flexible and multidisciplinary knowledge to budding technologists to serve the society.

MISSION

• To establish continuously improving academic ambience in the Institute in order to prepare the students with beyond curriculum knowledge, creativity, innovation, problem solving abilities, team work, communication skills etc. for their holistic development.

• To collaborate with Institutes of higher education, Professional Societies, R&D and Industrial organisations for continuous improvement of academic, research environment in the Institute and to build a strong Industry-Institute interface.

• To promote and nurture entrepreneurial and innovative quality of the students providing proper education, training and supportive facilities so that future entrepreneurs emerge with flying colors.

• To strengthen quality and knowledge-base of faculty through faculty development programmes for continuous upgradation to remain in tune with dynamically changing technology.

• To become a responsible contributor in the socio-economic development of the society through excellence in education and research.

QUALITY POLICY

• Best standards and practices of good governance, to be put in place to bring in transparency of operations and improve credibility at all levels.

• Industry-ready professionals to be developed through Interactive Teaching-Learning Process, Corporate exposure and project work.

• Higher Studies/research for Faculty & Staff to be encouraged for up gradation of knowledge which would, inter alia, include participation in TEQIPs, Seminar, workshop etc.

• Appropriate Laboratory facilities would be developed in selected areas to provide fillip for R&D.

• Industrial consultancy to be carried out in an effective manner through Industry Institute Partnership cell (IIPC) for developing a sense of accomplishment.

• NBA accreditation for all AICTE approved programmes to be obtained at the earliest and maintained on a long –term basis.

OUTCOME BASED INSTITUTIONAL OBJECTIVE

To create an environment to empower the students with solid foundation in mathematical, scientific, engineering, managerial, entrepreneurial fundamentals and incorporate research based curriculum thorough establishing continuous wide network with the industries in order to initiate long term academic excellence in the institution.

Organizational Structure

ORGANOGRAM

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                                    TRUST
                                      |
                            BOARD OF GOVERNORS  ----  Academic Council
                                      |         ----  Finance Committee
                            HEAD OF INSTITUTE   ----  IQAC
                                      |               Other Administrative Committee
        Executive Asst to HOI --------+
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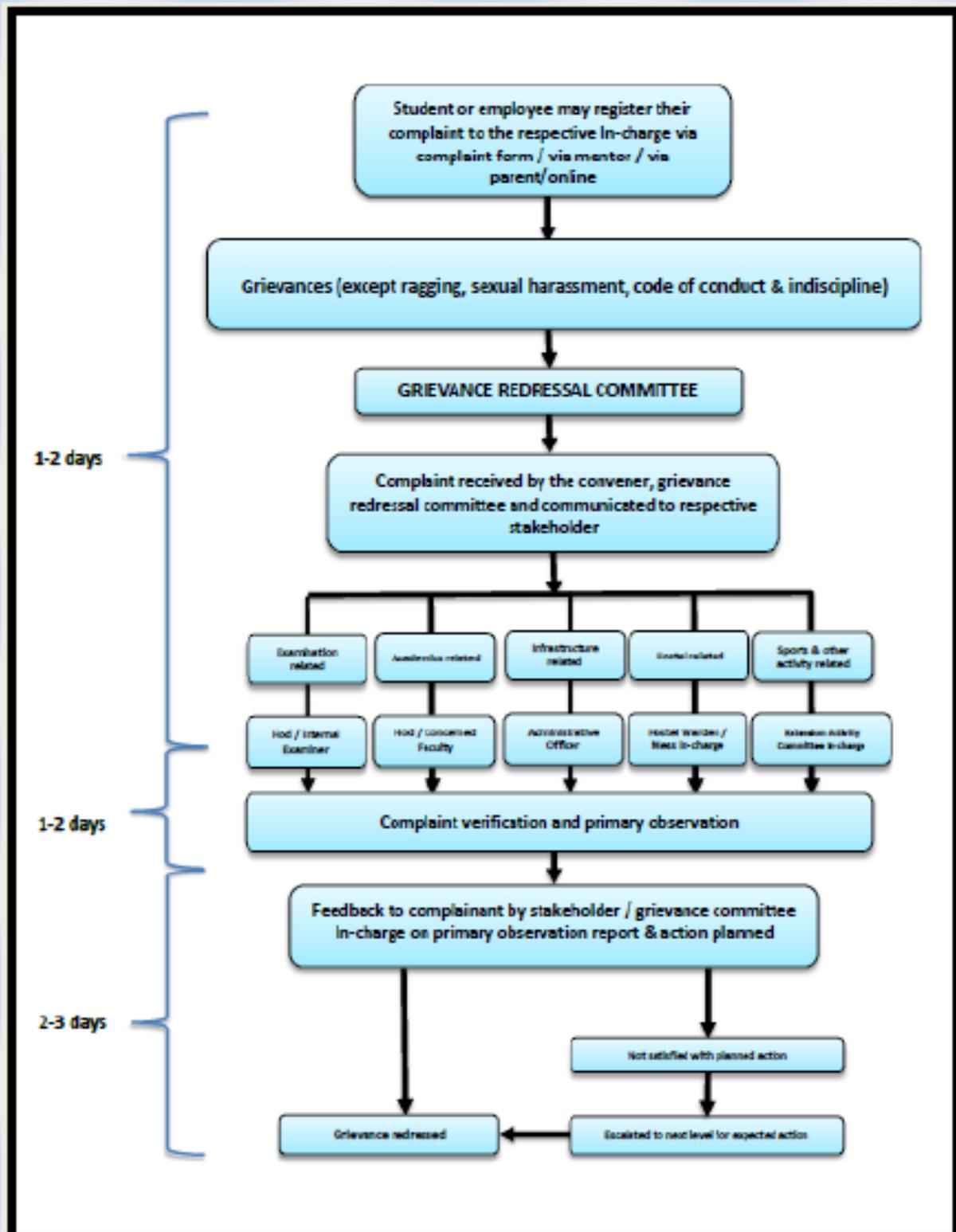
Reporting lines under Head of Institute:

- **Dean Academics**
  - HODs
    - DAC
    - BOS
  - Professor
  - Associate Prof.
  - Assistant Prof.
  - Technical Asst.
- **Dean R&D**
  - Research Ethics Committee
  - R&D Advisory Committee
  - R & D and Consultancy Committee
- **Dean Student Affairs**
  - SLC/Extra Curricular
  - NSS, NCC, Sports
- **Registrar**
  - Executive Admin
  - Executive HR
  - Store In-Charge
  - Receptionist
  - IC- Estate & Utility
  - IC-Admission
  - Site Supervisor
    - IC- Housekeeping
  - Hostel In Charge
  - Canteen In Charge
  - Security In Charge
  - IC-Transport
- **Officer Finance**
  - Executive Accounts
- **Librarian**
  - Asst. Librarian
- **Manager T & P**
  - Officer T & P
- **COE**
  - System Administrator
  - Dy. COE
  - Assistant COE
  - Executive Exam

Grevance Redressal System

Student or employee may register their complaint to the respective In-charge via complaint form / via mentor / via parent/online

Grievances (except ragging, sexual harassment, code of conduct & indiscipline)

GRIEVANCE REDRESSAL COMMITTEE

Complaint received by the convener, grievance redressal committee and communicated to respective stakeholder

1-2 days

| Examination related | Academics related | Infrastructure related | Hostel related | Sports & other activity related |
| Hod / Internal Examiner | Hod / Concerned Faculty | Administrative Officer | Hostel Warden / Mess In-charge | Extension Activity Committee In-charge |

1-2 days

Complaint verification and primary observation

Feedback to complainant by stakeholder / grievance committee In-charge on primary observation report & action planned

2-3 days

Not satisfied with planned action

Grievance redressed ← Escalated to next level for expected action

Admission Data

Narula Institute of Technology offers a number of courses ranging from Engineering (B.Tech and M.Tech), and Computer Application (MCA). Diploma in Engineering in branches of Electronics and Communication Engineering (ECE), Electrical Engineering (EE). Mechanical Engineering (ME) and Civil Engineering (CE) is also taught.

Each of the courses offered have a separate Entrance Test according to their respective Government of West Bengal examination boards.

Student admission for B.Tech is through WBJEE. Whereas for M.Tech the intake is through GATE score and PGET examination. Intake for MCA is through JECA. The entrance test for Diploma courses is JEXPO.

Also as per Government norms, 10% seats are reserved for Diploma Engineering students for t admission (Lateral Entry) to B.Tech 2nd year. The admission occurs through JELET.

Course	Stream	Intake
B. Tech	CSE	180
B. Tech	ECE	150
B. Tech	IT	120
B. Tech	EE	120
B. Tech	CE	60
B. Tech	EIE	30
B. Tech	ME	60
B.Tech	CST	60
B.Tech	CS (AI&ML)	60
B.Tech	CSBS	60
MCA	MCA	60
M.Tech	CE-SE	30
M.Tech	CSE	18
M.Tech	EE-PS	12
M.Tech	CE-GE	18
M.Tech	ECE	12
Diploma	CE	30
Diploma	EE	60
Diploma	ETCE	30
Diploma	ME	60

**Chapter 2   INSTITUTIONAL EVENTS**

Events Organized

Narula Institute of Technology ,a principal Institute of higher education aimed at producing globally responsible citizens.The institute has completed twenty years untiring service to the society on 17 August 2021 which is eventually the Foundation Day of our College.The Institute has taken up manifold activities to commemorate this day.The day started with the inaugural session in the lushy college ground where the students , faculty and staff members assembled following the strict COVID protocols.

The Guest of Honour Mr. Dhrubajyoti Dey, Joint CP, Barrackpore Police Commissionerate graced the occasion. The institute donated 20 computers for the benefit of the inmates in the Prison.

The Department of Business Administration of Narula Institute of Technology, Agarpara celebrated Entrepreneurs Day on 25th and 26th August, 2021. On 25th August, Business Idea Presentation Workshop – 1 was organized where ten numbers of ideas were presented and submitted by the students. After that each idea was analyzed and scopes identified.
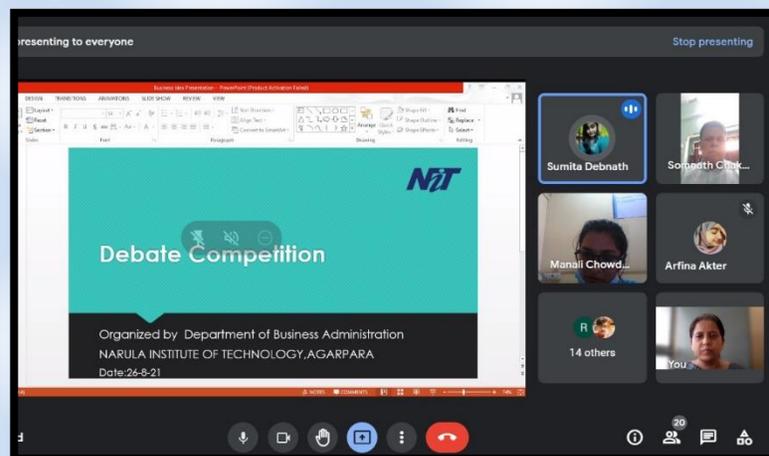
On the eve of Teacher's Day 2021, the students of Electronics and Instrumentation Engineering of Narula Institute of Technology celebrated the occasion in Virtual Mode on 6th September 2021 from 6:30 PM.
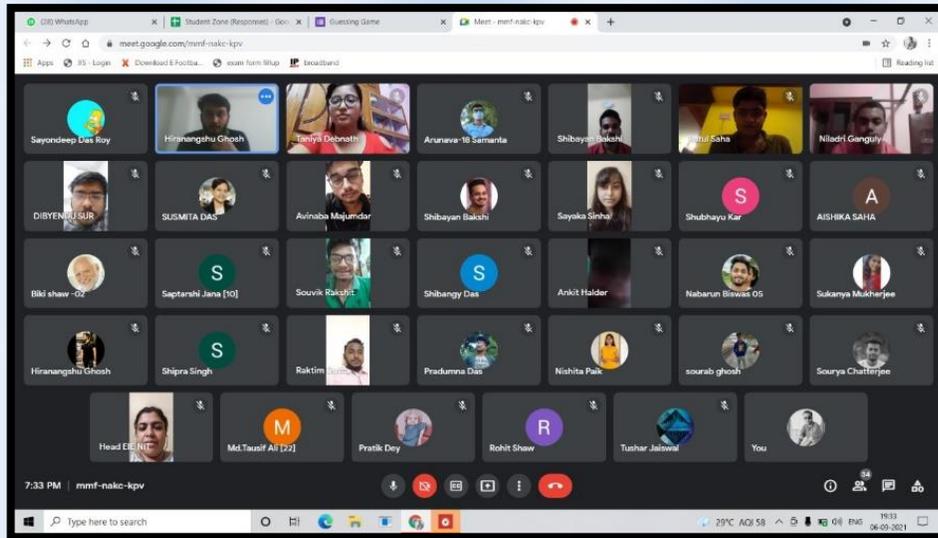
The Business Administration Department of Narula Institute of Technology organised a webinar on 'How to become a Successful Entrepreneur' on 26th April, 2021 at 12 PM.The objective of organising this webinar is to encourage our young minds so that they can equip themselves with new and innovative ideas.

The Basic Science and Humanities Department of Narula Institute of Technology organized a two-days digital conference entitled "4thNational conference on Science, Technology and Communication Skills (NCSTCS 2K21)", during 24th-25th September, 2021 using Google Meet platform.
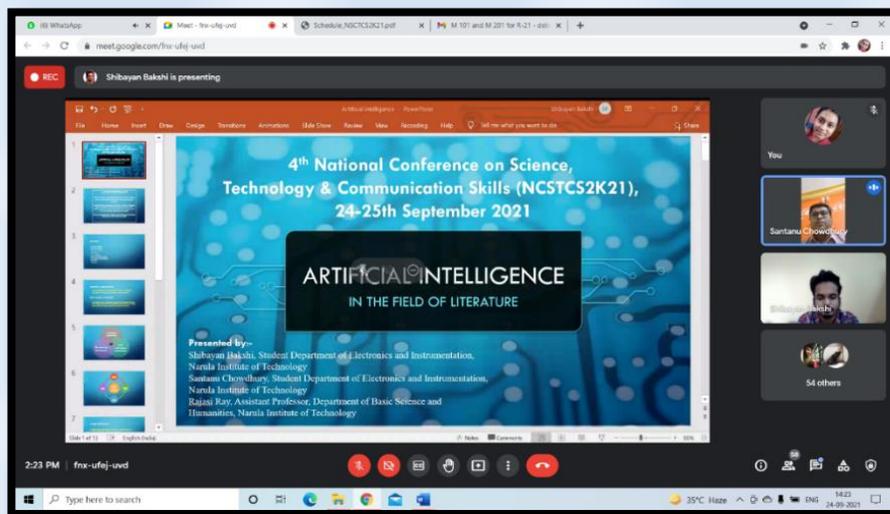
The Department of Electrical Engineering of Narula Institute of Technology organized a webinar titled "Transition from A Student to A Professional" under Engineering College Student Chapter-Institute of Engineers (India) on 11th September, 2021 from 4:00 pm to 5:00 pm over Google Meet platform.

The Mechanical Engineering Department of Narula Institute of Technology celebrated Vishwakarma Puja on 17th September,2021 to pay obeisance to Lord Vishwakarma; regarded as the god of architecture and engineering.

Narula Institute of Technology has organised "Cancer Awareness Week-2nd-5th February,2021" through the virtual mode. The NSS Unit & the Women Cell of Narula Institute of Technology has organised weeklong events to create awareness amongst our students, faculty & staff members and the neighboring areas. This weeklong initiative comprised of expert talks, visiting local areas, webinar sessions, poster presentations and was inaugurated by Principal, NiT-Prof.(Dr.) M.R Kanjilal.

On the auspicious festival of Diwali,the students and staff members of Narula Institute of Technology iluminated the campus through the creation of dazzling rangolis along with song & dance performances by the students which indulged all in the true festive atmosphere. A Rangoli competition was also organised for the students

A noble initiative was taken by the NSS unit, Narula Institute of Technology on 3rd November,2021. The NSS Coordinators with few students visited the "Ramakrishna Old Age home",Panihati and "Panihati Handicapped Welfare society" for disabled children.
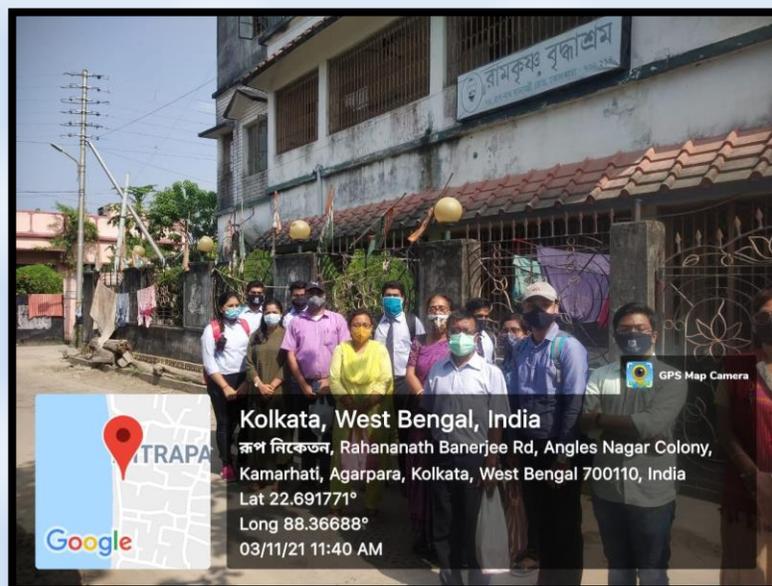
Narula Institute of Technology organised a cultural programme "Bhargavi" on the occasion of Bijoya Sammelani on 29th October,2021 at the Institute Seminar Hall.

"NiT Jewels" the Annual Awards celebration was organized at the heart of NIT on 24th December,2021. It was observed in a glorified way and the entire programme showcased the essence of Narula Institute of Technology. The most awaited award, the "College Blue", was conferred to Ruchi Sharma from the Electrical Engineering Department for consistent academic performance in the last four years, projects, publications, active participation in cultural, sports and technical activities and exhibiting a sense of responsibility. A small Christmas Celebration was also held at the end of the gala event.

Under the mentorship of the Cultural Committee of Narula Institute of Technology, the students, faculty and staff members has organised Saraswati Puja at the Institute premises on 5th February, 2022.

The MHRD-IIC, Narula Institute of Technology has organized an online session "Workshop on Entrepreneurship Skill, Attitude and Behaviour Development" on 4th February, 2022 at 3PM. The Speaker was Mr. B. P. Pattnaik, CEO of CGU Incubators, Odisha.

On the occasion of the 102nd Birth Anniversary of the honourable founder Chairman, JIS Group, Late Sardar Jodh Singh ji, Narula Institute of Technology remembered its visionary leader and celebrated his anniversary on 1st February,2022 at the Babuji Memorial Gallery.

. On the occasion of International Women's Day, this time the Women Cell of Narula Institute of Technology moved beyond the four walls of the campus and stood beside the downtrodden of the society. An initiative was taken to visit the sex workers in the Sonagachi area (Girish Park) on 8th March,2022. The college representatives comprising of eight faculty members and ten students distributed sanitizer and mask to the sex workers and campaigned about health and hygiene. The students distributed chocolates and stationary items to the kids over there.

. On the eve of Doljatra and Holi the students and staff members of Narula Institute of Technology celebrated the festival of colours on 17th March,2022 with full gusto. The students welcomed the idea of eco-friendly Holi celebration in the campus and refrained themselves from playing with wet colours. The petals of marigold flowers were used to play Holi. The campus was decorated with floral rangoli. Sweets were also distributed amongst the students and staff members followed by a brief cultural programme where group folk songs and dance performances . It was

a fun-filled evening signifying the importance of colors in our lives in the form of joy, prosperity, harmony, and peace.

. On 29th March 2022, Narula Institute of Technology (NiT) physically conducted an internal hackathon for Smart India Hackathon 2022 (SIH 2022), a national-level contest that aims to offer students a platform for ideating solutions to some pressing issues of various sectors, intending to instill a culture of product innovation and a problem-solving mindset. *More than 80 teams across various departments submitted proposals for the internal hackathon.* After initial screening by an expert committee, *around 40 proposals were shortlisted for physical presentation at the college campus (29th March 2022)* by the respective teams in front of a jury panel. Based on the presentations of the proposed ideas at the internal hackathon, *the jury members have shortlisted 15 prospective teams for the next phase of the National SIH 2022.*

. The Electrical Engineering Department of Narula Institute of Technology has organised the inaugural session of the IEEE PES Students' Chapter at Narula Institute of Technology on 1st April, 2022. Dr. Susanta Roy, (Associate Professor, Jadavpur University and Secretary of IEEE Kolkata Section), Dr. Tribesh Nag (Treasurer IEEE Kolkata Section; Secretary, IEEE PES Kolkata Chapter), Dr. Koushik Dutta (Student Activity Chair, IEEE Kolkata Section), Mr. Soumen Paul (Advisor of the IEEE student chapter at NIT) and Mr. Rohan Tripathy (founder and Director of Inovocare Healthsoft Solution private limited) enlightened the event with their gracious presence.

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The students and staff members of Narula Institute of Technology celebrated the advent of Bengali New Year on 13th April,2022 with a message of unity and inclusion. Like every year a small cultural programme was put up in the campus, however this time the occasion became more gorgeous by a collage of performances marking the other regional New Years. The programme ended with a recitation which conveyed prosperity and happiness to all in this juncture of multiple regional New Year. The campus looked absolutely colourful with the posters, music, dance forms and languages of different cultures and regions.

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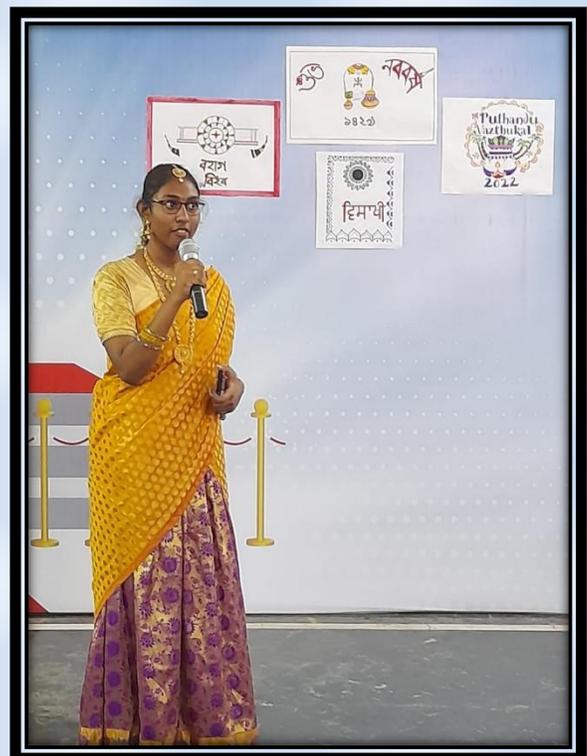
The students of Electronics and Instrumentation Engineering (EIE) Department of Narula Institute of Technology have visited Kolaghat Thermal Power Station (KTPS) on 19th April 2022. Total 42 numbers of students have attended the visit. The entire team was guided by the faculty members and Technical Staff of EIE department. The officials of KTPS demonstrated the different sections inside the plant.The visit provided great learning and field Industry Exposure for the students.

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The NSS unit of Narula Institute of Technology organized International Mother Earth Day where students from all departments presented their ideas in the form of Powerpoint presentations on the theme of "Invest on our Planet".
Students and faculty members participated enthusiastically and the programme ended with a pledge taking ceremony "All our activities and initiatives will be on the path of protecting our mother earth".

. The organizing committee of the coding events organized a coding workshop on 21.04.2022(Thursday). The workshop was organized for the students to give them hands-on experience with the coding concepts. Around 400 enthusiastic students from various departments participated in the workshop.The Kritanj-2K22 coding workshop was introduced to the students to make them familiar with the required coding knowledge so that they are benefitted in this space and will also make them pre-ready for the upcoming competitive coding events as well as future placements process. It was a mixture of ideas and concepts free-flowing in the hall which helped everyone present in the workshop to boost their confidence regarding coding, as students from different years participated in the workshop.

In pursuit of the spirit of "JIS Innovation Award", "Narula Institute of Technology" (A NAAC-A Accredited Educational Unit of JIS Group) organized an *award distribution ceremony on 21st April, 2022 at NIT Campus for the academic years 2019-2020 and 2020-2021* to applaud the notable achievements of its faculty members and students in Research and Innovation. *Padmasree Prof.(Dr.) Ajoy Kumar Ray (Director, JISIASR), Prof.(Dr.) Indranil Sengupta (Vice-Chancellor, JIS University) and Prof.(Dr.) Umapada Pal (Professor & Former Head CVPR Unit, ISI, Kolkata), were the guests of honor.* The dignitaries of the ceremony handed over the certificates and dummy cheques to the awardees.

The NSS unit of Narula Institute of Technology has organized an awareness program on "Stress Management, Immunity Boosting and Balanced Life through Sahaja Yoga Meditation" on 29th April,2022 at 10.30AM through virtual mode. The resource persons were Mr. Nitin Jindal and Prof. Ravindra Gaonkar. They described sahaja yoga elaborately and explained the benefits of sahaja yoga in our daily life. He also took a practical session on Sahaja Yoga. Approximately 100 students, faculty and staff members participated in the program with full enthusiasm. All have actively followed the instructions and practiced various asanas instructed by Mr. Nitin Jindal. It was indeed an engrossing experience for all our participants.

To commemorate Nobel Laureate Rabindra Nath Tagore's 161st birth anniversary the faculty and staff members of Narula Institute of Technology, organized a cultural programme on May 9, 2022. The participants showcased their love and respect for Rabindranath Tagore through various performances. The NiT family celebrated the spirit of universal brotherhood.

The theme of the International Mother's Day 2022 celebration was "Maa Tujhe Salam".The students came to the campus and started the programme in front of the portrait of our beloved Mataji Sardarni Satnam Kaur,former chairperson of JIS Group. A few students with their guardians joined the event in the virtual mode.The mother-kid duo performances were the showstopper of the programme. The celebration ended by paying tribute to the universal mother which is our dear motherland. A small excerpt is shared here as a presentation.

The Institute's Innovation & Incubation Committee of Narula Institute of Technology organised an Intellectual Property Rights (IPR) Programme under National Intellectual Property Awareness Mission (NIPAM) under the campaign "Azadi ka Amrit Mahotsav" on the 2nd May 2022. The main objective of the seminar was to increase awareness amongst the participants on Intellectual Property Rights (IPR). The speaker of the session was Mr. Divyendu Jha, Examiner of Patents and Designs, DPIIT, Ministry of Commerce & Industry-Govt.of India & Alumni from ECE Department. Mr. Jha discussed the importance of IPR, Registration procedure, recent trends, scopes and benefits of IPR.

The Electrical Engineering Department of Narula Institute of Technology has signed MoU with "Sikharthy Infotech Pvt. Ltd." on 24th May, 2022 at the institute.

Mr. Deepayan Pal,Founder and Director-Sikharthy Infotech Pvt.Ltd. and Ms. Shilpi Ghosal,Director-Sikharthy Infotech Pvt.Ltd acted as the signatory for the firm whereas Prof. (Dr.) Maitreyi Ray Kanjilal, Principal-NIT acted as the signatory for Narula Institute of Technology. The MOU was signed in the presence of Dr. Bishaljeet Paul,Head-EE Department along with other faculty and staff members.The MOU was signed to develop industry institute association, industry oriented projects, internship, training and workshops on Emerging technologies.
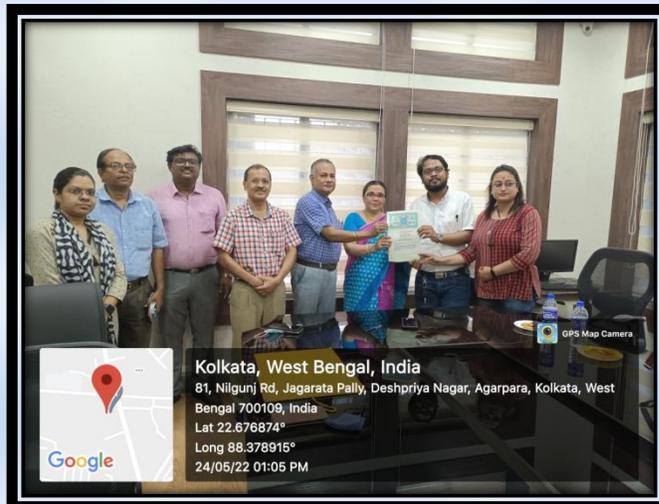
World Environment Day is the opportunity for everyone to realize the responsibility to care for the Earth and to become the agents of change.World Environment Day is celebrated each year on 5th June. The NSS Unit and the Environment club of Narula Institute of Technology has celebrated the World Environment Day on 6th June 2022 at the institute.

The students and the faculty members of NSS brought seeds of Mango, Lichi and Jamun and they sowed the seeds in the college premises.In lieu of this, students were inspired and motivated to plant more trees in and around their own surroundings contributing to a healthier and cleaner society which in turn will make a greener Earth.

In order to get acquainted the students with the impact and implications of Union Budget 2022 on the various economic indicators, the Department of Business Administration of Narula Institute of Technology has organised a Webinar on Union Budget 2022-Post Budget Analysis" for the students on February 03, 2022.
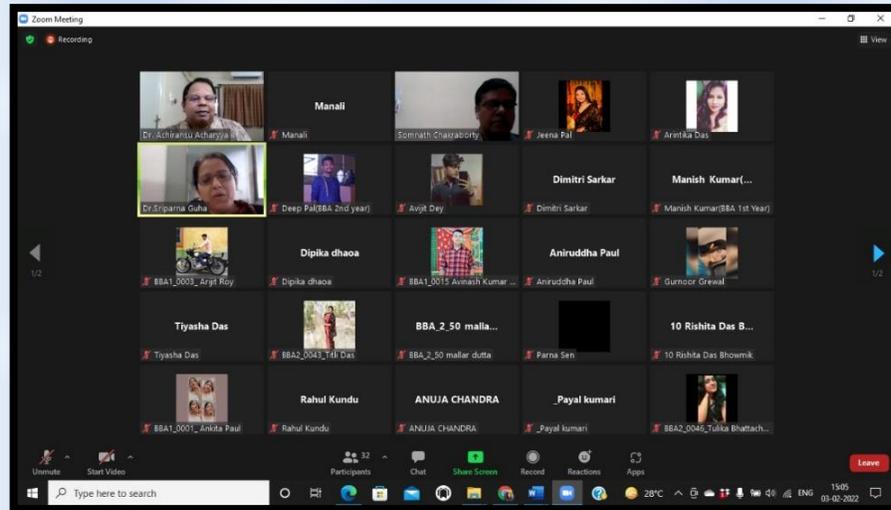
The Department of Electrical Engineering of Narula Institute of Technology organized a webinar titled "Career Aspects in Electrical Engineering" under Engineering College Student Chapter-Institute of Engineers (India) on 28th January, 2022 from 12:00 PM to 1:30 PM over Google Meet platform.

The Women Cell of Narula Institute of Technology has organised a Breast Cancer Awareness Programme to educate the female students and employees on 1st February,2022 from 1 PM onwards.
Topic: Breast Awareness Programme Speaker:Dr. Rajesh Jindal, MD, Specialisation in Medical Oncology, Director of Medella Cancer Cure centre No. of participants:70

Under the Mentor-Mentee Program for IIC Institutions, Implementing Agency – MoE's Innovation Cell (MIC), AICTE the MHRD IIC section of Narula Institute of Technology organized the orientation session 1 on vision building/mentoring session on the 17th and 18th January 2022 from 7PM for the key functionaries of the mentee institutes under NIT.

On the occasion of International Women's Day, this time the Women Cell of Narula Institute of Technology moved beyond the four walls of the campus and stood beside the downtrodden of the society. An initiative was taken to visit the sex workers in the Sonagachi area (Girish Park) on 8th March,2022.

Narula Institute of Technology has signed an MOU with Gapcrud Private Limited on 25th February, 2022 at NIT. Mr. Atanu Roy Chowdhury, Director, GPL acted as the signatory for Gapcrud Private Limited and Prof. (Dr.) Maitreyi Ray Kanjilal, Principal-NIT acted as the signatory for Narula Institute of Technology. The MOU was signed in presence of Dr. Nidhi Singh, Registrar-NIT and Dr. Sandhya Pattanayak, Assistant Professor-ECE & Convener-IIC-NIT.

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A wall magazine "REFLECTION-Vol.3" was published with the theme "Business and challenges" by the Department of Business Administration of Narula Institute of Technology on 28th April, 2022 at 10:30 AM in the college. It was prepared by the students of BBA and BBA-HM.

In pursuit of the spirit of "JIS Innovation Award", "Narula Institute of Technology" (A NAAC-A Accredited Educational Unit of JIS Group) organized an award distribution ceremony on 21st April, 2022 at NIT Campus for the academic years 2019-2020 and 2020-2021 to applaud the notable achievements of its faculty members and students in Research and Innovation.

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The students, Guardians and the staff members of the institute showcased their love and honour to mothers all around the world on the occasion of International Mother's Day.

The theme of the celebration was "Maa Tujhe Salam".

To commemorate Tagore's 161st birth anniversary the faculty and staff members of Narula Institute of Technology, organized a cultural programme on May 9, 2022.

Students of Electronics and Communication Engineering of Narula Institute of Technology were taken on an industrial visit to MSME Tool Room and Training Center on 11th May, 2022. The coordinators of the visit were Prof. Dr. Anilesh Dey (HOD of ECE, NIT) and Dr. Sandhya Pattanayak (Associate Prof-ECE,NIT).

The Business Administration Department of Narula Institute of Technology organised a webinar on 'Recycle of Waste Water-Key to Sustainable Water Management' on 18th May, 2022 at 3 PM. The objective is to address the necessity of different wastewater methods which is the key to sustainable water management.
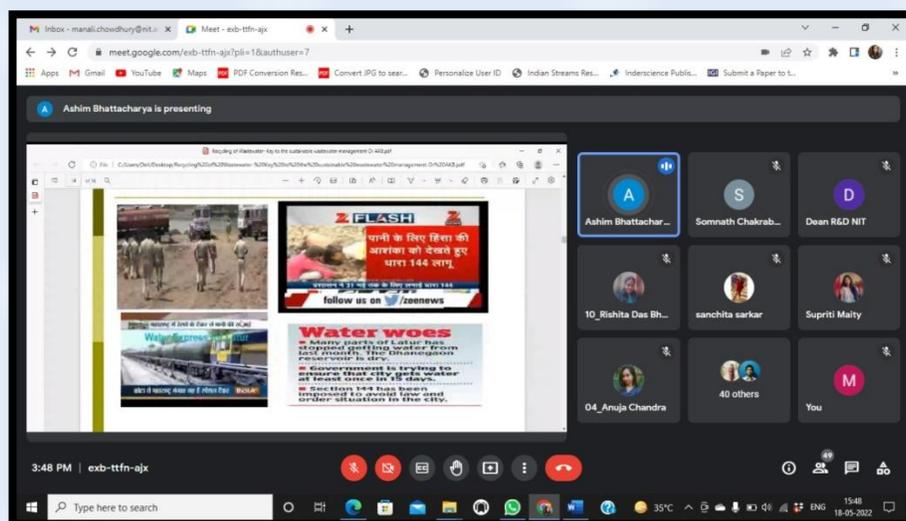
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The Institute Innovation Council of Narula Institute of Technology organised a Workshop on Business Model Canvas on 26th May, 2022 at 11 AM through the virtual platform. The details are as follows:

Name of the Speaker- Mr. Atanu Roy Chowdhury, Founder of Capsule Lab

Programme coordinated by : Dr. Sriparna Guha, HoD-Business Administration and Mr. Goutam Roy, Assistant Professor, Mechanical Engineering Department; Members of IIC,NIT.

No. of Participants: 61

The English section of Basic Science & Humanities Department of Narula Institute of Technology organized an International Conference in association with Indian Society for the promotion of English Language & Literature (ispell) on 27-28th May, 2022 in the blended mode. The theme of the conference was English Language and Literature in the Pedagogical Perspective: Embracing the Landscape Shift through Innovative Practices (ICELLP 2K22).

A Visit to Incubation Centre NASSCOM, Kolkata was organised on 31th May, 2022 by the IIIC section of Narula Institute of Technology. Students from all departments and branches participated.

The Department of Computer Application of Narula Institute of Technology has conducted an Industry Visit on 7th June, 2022 for the 1st & 2nd year students at Euphoria GenX, Salt Lake, Sector V.

The Department of Electronics & Communication Engineering, Gargi Memorial Institute of Technology (GMIT) has organized an Industry Visit for the 2nd year ECE students at "Boenci Solutions Private Limited", Kolkata - 700032 on 8th June 2022.

The students of Narula Institute of Technology celebrated the World Day against Child Labour on 12th June, 2022 under the NSS unit. The International Labour Organization (ILO) started observing World Day against Child Labour in 2002 with an aim to highlight the plight of children who are the victims of child labour. The day serves as a catalyst to take forward the global movement against the practice. The theme for this year is "Universal Social Protection to End Child Labour".

Swagatam 2k21: Third day of the Induction program for our undergraduates embarked lessons for our students at Narula Institute of Technology. The second half of the day, the students were privileged to listen to Dr. Manpreet Singh Manna, Ex Director AICTE & Motivational Speaker. Dr. Manpreet Singh Manna had all the ears listening to him intently as he delivered a 40minute long session for the students of Narula Institute of Technology, he shared many values which is important for any person to be a better person all round. He imparted the need to respect ones parents, teachers and everyone who works behind the screens to make a person achieve his/her goals. The importance of 15th September, which is recognized as Engineers Day was also said by Dr. Manna. A real incident of Sir Mokshagundam Visvesvaraya, the person behind Engineers day when narrated by Dr. Manpreet Manna was inspirational and motivational for all students alike.

Narula Institute of Technology organised an Intellectual Property Rights (IPR) Programme under National Intellectual Property Awareness Mission (NIPAM) under the campaign "Azadi ka Amrit Mahotsav" on the 2nd May 2022. The speaker of the session was Mr. Divyendu Jha, Examiner of Patents and Designs, DPIIT, GoI & Alumni from ECE Department. The session was very informative and interactive.

On 29th March 2022, the Narula Institute of Technology (NiT) physically conducted an internal hackathon for Smart India Hackathon 2022 (SIH 2022). SIH 2022 is a national-level contest that aims to offer students a platform for ideating solutions to some pressing issues of various sectors, intending to instill a culture of product innovation and a problem-solving mindset. There was massive excitement among the students about SIH 2022, as more than 80 teams across various departments submitted proposals for the internal hackathon. After initial screening by an expert committee, around 40 proposals were shortlisted for physical presentation at the college campus (29th March 2022) by the respective teams in front of a jury panel. It was a fascinating experience for the participants as the judges interacted with them, spent time understanding their ideas, and shared valuable suggestions. Based on the presentations of the proposed ideas at the internal hackathon, the jury members have shortlisted 15 prospective teams for the next phase of the National SIH 2022. We wish all the selected teams best of luck for their future course of journey in SIH 2022!

NiT has organized a free vaccination drive on 26th October 2021 inside the college campus faculties staff members and students as well as the local residents were benefitted. In this second phase of vaccination drive 567 people were vaccinated in this programme.

Electrical Engineering department of NiT organized a one week faculty development program from 5th - 10th July 2021. With emninent speakers like Prof. Jayanta Pal, Prof. Sujit Biswas, Dr. Aritra ghosh,Prof, Utpal Das and Dr. Arijit Baral. The programm was a great success with 72 particiant.
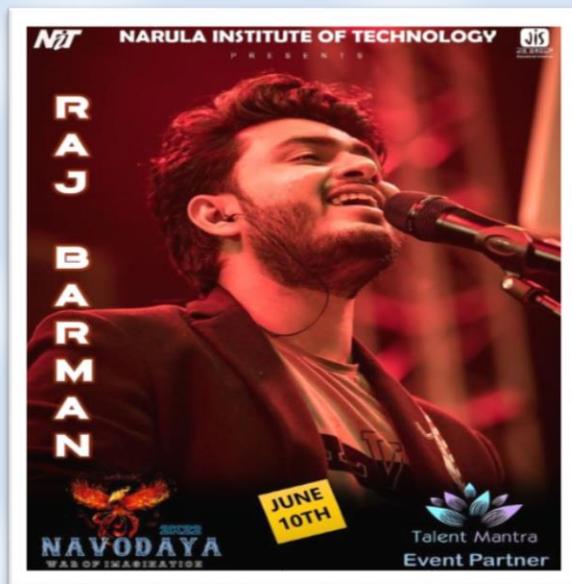
NiT organized the biggest cultural gala fest on 10th and 11th of June 2022 with high voltage performances by students, dance groups and drama groups and performances by Dj Yogii and Raj Bafman.

Nit organized a gala technical fest with coordination with faculty students and experts from different technical fields. The event was organized on 5th and 6th May 2022. The event was a great success.

Students of NiT participated in the International film Festival on 29th may 2022 on the birthday homage to Mr. Satyajit Ray at SRFTI Kolkata.

Congratulations to all the stakeholders as NiT is selected as Best Pvt Engg College by News 18 Bangla in Education Eminence 2022 Award. The event was held on 21st May 2022.

An industrial visit was organized by EIE department of Narula Institute of Technology at Kolaghat Thermal Power Satation on 19th April 2022. The event successfully with 35 satisfied studentsCelebration of the Regional New Year(s) under one roof The students and staff members of Narula Institute of Technology celebrated the advent of Bengali New Year with a message of unity and inclusion. Like every year a small cultural programme was put up in the campus, however this time the occasion became more gorgeous by the collage of performances marking the other regional New Years. The event started with the chorus song Eso hey Baisakh which was followed by a traditional folklore of Assam where the performer expressed gratitude to God for a good harvesting season with a Bihu dance performance. Later a Tamil student highlighted the significance of Puthandu (Tamil New Year observed on 14 April) and Vishu (Malyali New Year celebrated on April 15) respectively. She was dressed in the Tamil traditional attire Dhavani and very enthusiastically played a Tamil song which focussed on the mythological description of Puthandu which she translated in English. The music team sang a Punjabi folk song and the students threw light on the festival Vaisakhi which marks the Punjabi New Year(celebrated on 14 April).The students gave a vivid description of the ritual of Vaisakhi.Finally the programme ended with a recitation which conveyed prosperity and happiness to all in this juncture of multiple regional New Year. The campus looked absolutely colourful with the posters, music, dance forms and languages of different cultures and regions. The Narulites truly exhibited a sense of Unity in diversity.

Pre Holi Celebration at NiT

Spring is life , Spring is hope. The Festival of colours is celebrated with great enthusiasm and enjoyment. The Nit-ians chose the eco- friendly way by using organic colours and flowers to spread the festive fervour.The rangoli artwork , cultural programme and sweets added more colour to the festivity and promised to bring harmony and prosperity in our lives.

❖ Narula Institute of Technology celebrated Science day on 28th Feb 2020 in the loving memory of creative mind par excellence Sir Chandrasekhara Venkata Raman, famously known as Sir C V Raman. The day is known for one of the greatest Innovation and scientific achievements of India, Raman Effect, discovered by Sir CV Raman, who won the Nobel Prize in 1930. Today NiT in association with KRITANJ, Annual Techno Management Fest organised an amazing technical workshop on app development covering the required topics on it where lot of students came and were guided by experts for working on app based platform from very basics.Students met their queries while interacting with experts.It was a proper certified app development workshop which gave students immense knowledge required to work in today's technology.

International Mother Language Day is a worldwide annual observance held on 21 February to promote awareness of Linguistic diversity and cultural diversity and to promote multilingualism.

On this day , NiT organized several events like Debates, Elocution, Creative Writing and cultural program to commemorate and pay tribute to the martyrs of this revolutionary day.The event started with the inaugural address by Prof.(Dr). Maitryei Ray Kanjilal. The program went on for the entire day with enthusiastic students pouring in their passion for mother tongue. In the evening the cultural programme began shortly after paying

homage in front of the "Saheed bedi" . The students and staff members of Narula Institute of Technology sang different songs in their own vernacular. The rich and diverse function came to an end with a wonderful folklore performed by student band of the college.

Let this day remind us, of our roots and heritage. Let this day be a part of our soul every day.

Pneumatics Systems and Control-I" in collaboration with high end industrial setups of BOSCH and REXROTH in the Centre of Excellence Laboratory from 10th Feb to 23rd Feb 2022. The Students of Core Engineering Departments are participating in this Winter Camp. The primary objective of this Winter Camp is to develop their Skills with the high end equipment of BOSCH and REXROTH which is essentially required in the CORE Sector. The equipments are further interfaced with the Automation Software for process control

applications. The Event has been co-ordinated by Dr. Bansari Deb Majumder in association with Team members Dr. Amit Datta, Mr. Partha Bhattacharyya, Mr. Arup Kumar Maity and Mr. Prasanjit Sarkar.

NiT has organised a Two weeks Industrial Winter Camp on "Hydraulics and Pneumatics Systems and Control-I" in collaboration with high end industrial setups of BOSCH and REXROTH in the Centre of Excellence Laboratory from 10th Feb to 23rd Feb 2022. The Students of Core Engineering Departments are participating in this Winter Camp. The primary objective of this Winter Camp is to develop their Skills with the high end equipment of BOSCH and REXROTH which is essentially required in the CORE Sector. The equipments are further interfaced with the Automation Software for process control applications. The Event has been co-ordinated by Dr. Bansari Deb Majumder in association with Team members Dr. Amit Datta, Mr. Partha Bhattacharyya, Mr. Arup Kumar Maity and Mr. Prasanjit Sarkar.

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CHAPTER 3   INFRASTRUCTURE

ICT based Classrooms

The institute has been making an untiring endeavour since its inception for ensuring adequate availability and optimal utilization of physical infrastructure for smooth conduction of teaching learning activities within a well maintained lush green campus. It has adequate infrastructure in alignment with the regulatory norms as listed below.

Classrooms for Theory/Tutorial Classes: The institute has 52 ICT-enabled ergonomically designed classrooms each with proper ventilation and reverberation free ambience for smooth conduction of theory classes. Additionally, there are also adequate numbers of tutorial rooms to cater to the special needs of teaching learning process.

Laboratory & Computing Facilities: Adhering to the specifications as laid down by the regulatory body, the institute always makes sincere endeavours to ensure quality of all of its UG and PG laboratories (including research laboratories). All the laboratories including workshops are equipped with excellent instruments. There are also some industry sponsored laboratories to offer training for Remote Sensing, PCB design and Fluid Power Control.

A constant effort has been made to modernize laboratories for upskilling students on modern-day automation in alignment with the need for Industry 4.0 digital transformation. The non- IT lab facilities encompassing Mechanical Engineering Labs (e,g. Hydraulic Lab), Electronics Engineering Labs (e.g. PLC Lab), Electrical Engineering Labs, Civil Engineering Labs, Instrumentation Engineering Labs etc. are also equipped with most modern setups procured from global technology giants such as BOSCH, Siemens, Honeywell etc.

In recent days, computer system has become an inseparable component for every academic activity. The entire campus has 980 active PCs with the latest i7/i5/i3/Core2Duo, 16GB/8GB/4GB/2GB DDR4 RAM hardware features. Sufficient number of essential licensed system software (19) and licensed application software (54) with annually renewed Microsoft campus agreement are installed in each PC. Beyond the basic software requirements of teaching and learning, the institute has also ensured availability of several utility software kits such as IBM RATIONAL ROSE, CATIA V6, DEL STATISTICA, STAAD PRO, ANSYS, CADENCE, Visual T-CAD, Symica AMS IC Design Tool Kit, Proteus VSM, Synopsys EDA Tools, Mathematica, Caspock, Matlab, LabView, MiPower etc. The institute has a central computer centre which comprises adequate number of computers with 1:3 availability ratio for the students to carry out their academic and research activities smoothly without any logistic issues. All computers are connected to the internet over high-speed cables and a dedicated system admin looks after the maintenance of the computing facility.
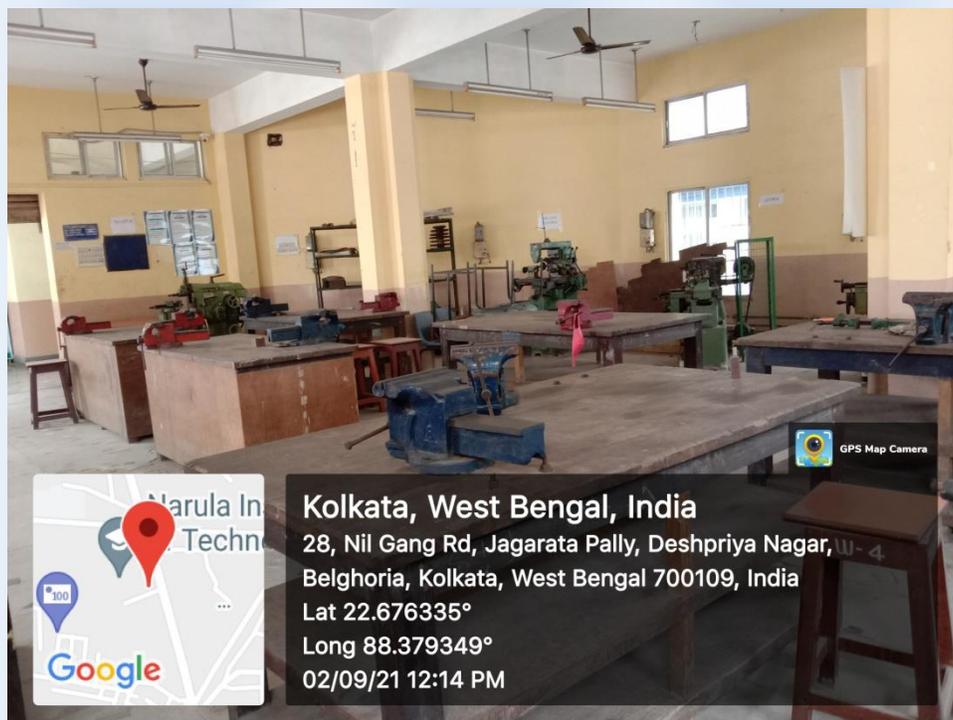
Internet Connectivity, G-Suite Google Account & Printer Facilities: Institute provides uninterrupted access to network services with 200 Mbps internet bandwidth. The campus is Wi-fi enabled with 24/7 internet connection facilities having adequate band-width for conducting live sessions. The institute also provides printing facilities to the faculties with availability of different types of LaserJet black & white and colour printers. Each faculty member is also officially provided a g-suite google account to avail facilities like Gmail, Google Meet, Google Classroom, Google Drive for ensuring collaborative working environment.

Additional Facilities: In addition, the institute has five digital studios which have the facility for recording and projection with audio visual system. The institute also has a dedicated language lab equipped with the most advanced AV System and ISIL software.

Laboratories ::

CENTRE OF EXCELLENCE (COE) FOR INNOVATION ECOSYSTEM

NIT has created the Centre of Excellence (CoE) for Innovation Ecosystem harnessing talents in some of its potential areas. This centre will cater to the growing needs and potentials of the students involved in higher education by providing them tools, methodologies and support for exciting research opportunities. This is not going to be department specific but interdisciplinary ventures which thus are going to create entrepreneurial avenues leading to employment generation rater than mere job seekers.

In this centre of excellence, we aim

1. To harness the potential of technological advances to solve the existing socio-economic and environmental problems.
2. To turn the digital divide into a digital opportunity for all through functionality driven low-cost hardware design.
3. To develop a fertile ground for learners, developers, contributors, entrepreneurs and decision-makers. To work in the direction of building an inclusive society with the participation of Government, Private Sector and International Organizations.

JIS Bosch Rexroth Centre of Excellence at NiT

On the 11th of March 2019, Narula Institute of Technology, under the flagship of JIS Group hosted the Inauguration of JIS Bosch Rexroth Centre of Excellence at its campus.JIS Group has always been the forerunner in academics and to keep in pace with the changing technological advancement in the world of hydraulic and pneumatic systems, it has collaborated with Bosch-Rexroth of Germany, pioneers in this domain to culminate that dream into the making of the Centre of Excellence with research and training facilities.The program was graced by the Chief Guest, Dr. Michael Feiner, Consul General, Consulate General of the Federal Republic of Germany, Kolkata and Mr. Dhirendra Gandhi, General Manager- Bosch Rexroth India Limited.Shri Taranjit Singh, Managing Director-JIS Group , Shri Amanjot Singh, Director- JIS Group and Dr. (Prof). Maitreyi Ray Kanjilal, Principal, Narula Institute of Technology were also present.The program began with the lighting of the lamp ceremony and welcoming the guests. Dr. (Prof). Maitreyi Ray Kanjilal, in her welcome address stressed on the significance of the fluid power control system and the prospects of the Centre of Excellence.This was followed by keynote address on the usefulness of: JIS-Bosch-Rexroth Centre of Excellence by Mr. Dhirendra Gandhi. He spoke at length on the infrastructure at Bosch-Rexroth and on the numerous opportunities for researchers.The final speaker was Dr. Feiner who discussed on the research opportunities in Germany and the story in the making of Bosch Company. The Vote of thanks was delivered by Shri Amanjot Singh.

B. The Innovation Ecosystem Center of NIT Agrapara seeks to provide continuous momentum towards promoting innovation in entrepreneurship. Narula Institute of technology shall be an academic incubator and provide support to those business ideas which are elaborated by the students that addresses the unattended issues persisting in our society. It aims at providing a platform to young talented students, where they can bring forward their ideas in the space of science and engineering and showcase the same to industry experts to get their assistance in developing a model. It intends to nurture young minds and help their ideas gain ground through channelized guidance and mentorship by industry experts. We wish to give engineering students and industry practitioners an opportunity to interact and build a community that looks into the future.

I.   NiT Centre of Excellence(CoE)team has organized a 3 days workshop on "Innovation The New Knowledge Mantra" for the budding Technopreneurs from 18th-20th September,2018.

The Aim of this workshop is to inspire and develop entrepreneurship skills among students and to give more and more successful entrepreneurs to the society. This workshop included speeches from eminent speakers, training on entrepreneurial skills development and sharing of experience with first generation entrepreneurs.

The key speakers of the 3 days workshop were:
Mr. Tushar Garg, Head, Business Development, National Innovation Foundation(NIF),India.
Dr. Subhadra Dravida, Founder and CEO,Transcell Biologics Pvt. Ltd.
Dr. Abhishek Vaish,Assistant Professor, IIIT, Allahabad
Mr. Subrata Sen, Former Associate Vice president, AVP.
Mr. Kunal Chanda, Senior Engineer, CDAC, Kolkata.
Ms. Nilanjana Mukherjee, CEO, Universal Group
Mr. Ashwin Shastry , President, BlueInd Consulting Services
Mr. Ramakrishna S, Co-Founder, BlueInd Consulting Services
Ms. Tejasri Pingali, HR Business Partner,BlueInd Consulting Services.
 It was a great learning experience for faculties and students alike.

II. Under the initiative taken from the NiT CoE team 8 members; 6 students along with 2 mentors, Students Participants: Sayantan Mitra, Supravat Roy, Uday Sankar Saha, Avipsa Basak from EIE department and Srijita Dutta, Ramrick Ganguly from Business Administration Department with Mentors: Kaushik Sarkar from ECE and Susmita Das from EIE participated in the INNOMPIC Games 2018 which was a platform where the students were given a chance to show their technical efficiency and skills to develop innovative business model to grow as an entrepreneur which is called the "Global Innovation Acceleration". Team NIT is the winner in the category of "Creative Problem Solving" in the 2nd INNOMPIC Games 2018, held at University of Kuala Lumpur, Malaysia from 27th September-30th September, 2018, by defeating the global competitors like Vietnam, Malaysia, Uzbekistan,Russia and another team from India. Most importantly they have defeated the winner team (Russia) of previous year. Furthermore, our students won some other awards also in different categories such as :

Best Ideator : Ramrick Ganguly

Mr. Innovator : Supravat Roy

Ms. Innovator : Avipsa Basak

Wittiest Innovator : Uday Sankar Saha

The jury members were from Belgium, Croatia, Germany, India, Malaysia, Russia, Singapore, USA and Vietnam.

III. Another laurel achieved under the flagship of JIS Group is the Inauguration of JIS Bosch Rexroth Centre of Excellence was inaugurated on the 11th of March 2019. JIS Group has always been the forerunner in academics and to keep in pace with the changing technological advancement in the world of hydraulic and pneumatic systems, it has collaborated with Bosch-Rexroth of Germany, pioneers in this domain to culminate that dream into the making of the Centre of Excellence with research and training facilities.

The program was graced by the Chief Guest, Dr. Michael Feiner, Consul General, Consulate General of the Federal Republic of Germany, Kolkata and Mr. Dhirendra Gandhi, General Manager- Bosch Rexroth India Limited. Shri Taranjit Singh, Managing Director-JIS Group , Shri Amanjot Singh, Director- JIS Group and Dr. (Prof). Maitreyi Ray Kanjilal, Principal, Narula Institute of Technology were also present.

Library & Documentation Centre

The Central Library of Narula Institute of Technology is an integral part of the Institute since the establishment of the college in order to meet the information requirement of the faculty, Students & Staffs. The automated library has an enormous collection consisting of more than 81 thousand Printed books, journals, E-Journals, E-Books, Magazines, Newspaper &CD-ROMs. The goal of the Library & Documentation Centre is to support the advancement of knowledge & education excellence by offerings a rich collection development policy, automated Circulation system, book bank facility for every student, Digital zone segment, question bank repository, Display Service & E-mail service towards its clientele.

Circulation

Document Type	Faculty & Staffs		Students	
	Entitlement	Retention	Entitlement	Retention
Books (Text)	06	180 Days	One title/ Subject	180 Days
Books (Reference)	04	15 Days	04	15 Days
Books (Daily Purpose)	01	01 Days	01	01 Days
CD ROM	01	01 Days	01	01 Days
Journal/Magazines	01	01 Days	01	01 Days
Question Papers	01	01 Days	01	01 Days

Overdue & Loss of Books

- For overdue of Books-   Per day 2/-
- For Damage or loss of books-   Replacement by new copy of the same document.
- Barcode Mutilation-   Penalty of 25/-

Library Floor Area

The library consisting of the following areas:

Room No.	Allotted For	Area(in m2)
211	Stack room	416
212-A	Librarian's Office; Processing Section	85
212-B	Store room for Book Bank	75
213	Reading room	254
	Circulation Counter	120
208		73.5
Total Area 1023.5		

Annual Addition of Books

Year	Books	
	Title	Volume
2020-2021	54	935

Library Transaction

Academic Year	Teaching Days	Total Transaction	Average Transaction
2020-2021	180	32637	182

Digital Library

- E-Books from leading Publishers
- E-Journals from IEEE ASSP
- J Gate Database
- E-Shodh Sindhu from INFLIBNET
- Inter Library Loan from British Council Library
- VCDs, multimedia CDs, presentations.
- NDL Support
- Training material (CD, Hard copy)
- E-learning repository of 1900 GB
- 4,09,594 videos of 12482 subjects
- NPTEL Videos & Lecture Notes
- Self-learning material (CD, Hard copy)

Library Service

- **Circulation of Library Resources**

The primary service of the library begins from Circulation desk. Users are advised to bring their college ID card to access the library. The issue, return, reissue, fine for overdue are functioned from this section and the entire process is computerized and run by LIBMAN Software.

- **E Resources**

The library has a subscription of IEEE journal & Wiley E-Books. Apart from this, library is a member of N - LIST (National Library and Information Services infrastructure for Scholarly Content) consortium of INFLIBNET through which the members of the library can access 6000+ e-journals and 1,99,500+ e books.

- **Open Access**

Library gives the provision of open access facility for optimum use of the library resources.

- **Digital Zone**

There are separate segment consisting of ten dedicated PCs for student & staffs with internet connectivity for browsing & accessing e-resources of the library. Beside this, the entire library has a provision to access Wi Fi facility.

- **Remote Access of E-resources**

Library E-resources are accessible remotely through FTP with login id credentials.

- **Repository**

There is a large collection of Syllabus, conference proceedings, previous year question papers, CD ROMs.

- **Web OPAC (Online Catalogue)**

Online Public Access Catalogue is accessible 24*7 remotely to know the shelf status of books.

- **Reading Room facility**

Library has separate reading room facility for both students & staffs with 150 seating occupancy.

- **Magazines & Newspaper Desk**

Library subscribes 10 magazines & 7 leading newspapers for advancement of knowledge.

- **Career Corner**

Library provides relevant books & magazines to nurture the career up gradation as well as personality development of students.

- **Others**

Students & staffs are entitled to get facilities of Email Service, Display Service, Content service, Reprographic service, & others ad hoc services from library.

Mobile Library Facility

Due to pandemic situation an initiative has been taken under Mobile Library service. Books have been distributed & collected from students at their nearest home location. This services covered the all district of West Bengal along with other neighbor state like Bihar, Jharkhand & Tripura to provide library facility at the doorstep of students.

HOSTELS

NIT Hostels is A Home Away From Home is a hub of academic, sports, cultural and social activities. It is said that home is sweet. But even then life at home cannot be compared to the life in a hostel.
NIT provides separate hostel for boys and girls.
Each hostel has spacious and semi furnished rooms offering a pleasant environment. The hostels are well-equipped with spacious rooms along with other facilities like: **Wi-Fi, water purifier, water cooler and provision for indoor as well as outdoor games**. These hostels also have home like dining facilities that offer fresh & nutritious food to the students. Hostels give an environment to create most effective conditions for student development. **The hostels are located both within the campus and off the campus thus offering secured abode. Hostel also provides transportation at fixed timings to maintain security.** The hostel is designed in such a way as to provide optimum utilization of student's time for their overall personality development.

HOSTELS , DETAILS

NAME OF HOSTEL	ADDRESS	GIRLS / BOYS NO OF SEATS	NAME OF WARDEN AND CONTACT INFO
BOY'S HOSTEL 1 / NIT	46 Nilgunj Road, Kol109	85	SwapanMahato 8159817157
GIRL'S HOSTEL1 /CAMPU S	NIT,109, Nilgung Road	40	Putul Roy Singh 9330522930
GIRL'S HOSTEL2/ NIT	27,BT Road, Prasadnagar, Kol58	28	Pranati Mishra 9330522930
GIRL'S HOSTEL3 NIT/OIN DRILLA	15 Nilgunj Road, Agarbara Kol114	28	Pranati Mishra 9330522930

ADMISSION in Hostels

- Seats available for first year students are 250-300 including all hostels.
- Allotment of seats as per the norms laid down by the college.
- Only those students whose parents do not reside in or around the Capital Region OF KOLKATA are eligible for admission to hostel.
- Resident students are re-admitted to the hostel based on the following criteria:
- • CGPA of 6 • 67% minimum college attendance in the previous academic session

MESS AND CANTEEN FACILITIES

Mess facility is an integral part of the campus which provides nutritious homely food to all hostellers, day scholars, faculty & staff members and visitors. It provides 4 meals a day. Quality food is prepared under strict hygienic conditions. The food is served in the dining area keeping all the sensitivities in consideration.

- All the hostel mess serves Vegetarian/Non- Vegetarian Food only and operates in self-service mode.
- The menu of the items is designed considering the requirements of the students and nutrition is added to make it healthy and complete.
- We offer morning tea with regular breakfast, lunch, evening snacks and tea, dinner and milk to all hostellers.
- The Canteen facility is available in all the campuses of Hostels which comprises of healthy & delicious variety of VEG/NON-VEG snacks & food.

MEDICAL FACILITIES

- Whenever needed, HOSTELLER may utilize medical services provided at the SAGAR DUTTA MEDICAL COLLEGE AND HOSPITAL.
- The college doctor is available from 11:00 a.m. - 2:00 p.m. on the weekdays.
- The medical counselor is available twice a week (on Tuesdays & Thursdays) from 1:30 p.m.- 3:30 p.m

<u>MEDICAL CENTRE</u>

- The institute has an exclusive medical centre equipped with all facilities for providing first-aid and first hand medical treatment. The room has medical beds for emergency cases. A professional doctor is available during college hours for taking care of any emergency.

- Free medical check-up drives are arranged from time to time, which includes eye testing and a thorough check up of salient features like Blood pressure, ECG and diabetes.

- The centre plays a pivotal role in extending nursing facilities.

Chapter 4   ACADEMICS

Programmes offered

UNDER GRADUATE (FULL TIME) : B. TECH (4-YEAR)

1. Mechanical Engineering (ME)- 60 Seats
2. Computer Science & Engineering (CSE) - 180 Seats
3. Computer Science and Technology (CST) - 60 Seats
4. Electronics & Communication Engineering (ECE)- 150 Seats
5. Information Technology (IT) - 120 Seats
6. Electrical Engineering (EE) - 120 Seats
7. Civil Engineering (Civil) - 60 Seats
8. Electronics & Instrumentation Engineering (EIE) - 30 Seats
9. Computer Science (Artificial Intelligence & Machine Learning) - 60 Seats
10. Computer Science & Business System - 60 Seats

POST GRADUATE (FULL TIME) : M. TECH, MCA (2-YEAR)

1. Computer Science & Engineering (CSE) - 18 Seats
2. Electronics & Communication Engineering - 12 Seats
3. Electrical Engineering -Power Systems - 12 Seats
4. Civil Engineering - Structural Engineering - 30 Seats
5. Civil Engineering - Geotechnical Engineering -18 seats
6. Master of Computer Application (MCA) -60 seats

DIPLOMA ENGINEERING (FULL TIME / AICTE APPROVED) (3-YEAR)

1. Electronics & Telecomminication Engineering (ETCE) -30 seats
2. Civil Engineering (CE) 30 seats
3. Electrical Engineering (EE) 60 seats
4. Mechanical (ME) 60 seats

<u>Teaching Learning Process</u>

The following Teaching –Learning: methodologies have been adopted by our institution.

- ❖ **Classroom Teaching**
- ❖ **Problem based Learning**
- ❖ **Project based Learning**
- ❖ **Laboratory / Video based demonstration**
- ❖ **Independent & Collaborating / Cooperative Learning**
- ❖ **Beyond curriculam Learning**
- ❖ **Flipped Learning**
- ❖ **Group Discussion & Presentation**
- ❖ **Expert Lecture**
- ❖ **MOOCS**
- ❖ **Industrial Visits**
- ❖ **Internships**

Result Publication &Analysis

The Department of Controller of Examination (COE) is responsible for transparent, fair and timely conduct of all examinations. The examinations conducted by the department of COE include the following.

    i. Semester Examinations (Theory, Practical, Sessional)
    ii. Slot Tests (Theory)
    iii. Continuous Assessment (Theory, Practical, Sessional)

For semester examinations, the department of COE published notifications with start and end dates for application form fill-up and start date for each of the semester examinations. All students applied for the examinations using the following processes.

- Examination Notice and Examination schedule put up by the department of COE on NIT website.
- Online Form Fill-up by students
- Attendance approval by HOD
- Application Form printout by student
- Online payment of examination fees through Examination portal
- Approval of students for examination by department of COE
- Admit Card download from examination portal by students
- Master Sheet for each day of Examination put up on website with separate link for each subject of examination.
- Maintain day-wise attendance sheet for all examination based on answer script submission in PDF format in subject-wise online drive links of central server.
- All evaluation of PDF answer scripts were carried out by the examiners in online mode with marks tabulation in separate protected excel sheet for each Examiner and each subject.
- Scrutiny was completely done online.
- Re-evaluation was carried out by the Head Examiners in online mode with marks tabulation in separate protected excel sheet for each Head Examiner.

Department of COE has carried out the following activities.

- Notification for Slot Tests
- Requisition for procurement of general stationary
- Submission of Budget for approval
- Request for Nomination of Paper-setters & Moderators
- Issue of Appointment letters to Paper-setters
- Issue of Appointment letters to Moderators
- Notification for Form fill-up for semester examination
- Publish detailed examination schedule in notice boards and website
- Notice for Submission of Internal Marks in online Examination portal
- Request for Nomination of Examiner and Head Examiner from Departments

- Distribution of Appointment Letter, Answer scripts and online Tabulation Sheets to Examiners
- Collection of Answer scripts and Tabulated Sheets from Examiners
- Online scrutiny of all Answer Script folders
- Make available Answer scripts, Scrutiny Reports and Tabulated Sheets to Head Examiners
- Coordinate completion of 10% Answer scripts checking by Head Examiners
- Coordination and final approval of Internal Marks from Departments
- Compile day-wise attendance sheet for all examination scheduled from the online system
- Coordination of Result Processing
- Publication of Results
- Notice for Review applications
- Collection of approved Review applications from students in prescribed format
- Allocation of Answer scripts for Re-evaluation
- Publication of Review Results

Examination Committee

To conduct the end semester examinations, to conduct and monitor the slot tests and to monitor the evaluation of students including continuous evaluation and internal assessment, an Examination Committee has been formed consisting of HODs of all department and Registrar before the commencement of 2020-21 Academic Session. In addition to these members the Examination Committee has the following members.

- Controller of Examination (Convener).
- Assistant Controller of Examination
- Registrar.
- HODs of all Department

Question Papers for Semester Examinations

All paper-setting was made in three sets for each subject. Two of the sets were prepared by internal faculty and other one set was from external faculty. All moderation was done by external faculty in online mode. All paper-setting and moderation were done using dedicated computer facilities in a central control room

After moderation, Question Papers were reformatted in PDF files, and uploaded to a central server.
A summary of the question bank preparation has been given below.

All paper-setting for slot examination was done by internal faculty members for each subject. After notification of the slot test examination internal faculties have to submit the question papers within stipulated time in specific format. Then all these question papers are processed and arranged day wise and time wise before examination.

Summary of Question Banks / Question Papers for Session 2021-22		
Description	ODD Semester	EVEN Semester
Number of Question Banks Allocated	717	692

Number of Internal Paper-setters	239	233
Number of External Paper-setters	478	460
Number of Moderators (External)	239	238
Number of Question Papers Generated	239	233
Number of slot question paper-setters	All internal Faculty	All internal Faculty

Conduct of the Semester Examinations

Odd Semester 2020-2021:

All students were provided with separate login ID and Password before examination for downloading the questions. After login, students were finding out start button where by clicking they can be able to download or view the question. After completion of examination students had to make a single pdf file after scanning and give a proper file name. Then they had to upload it in the specific location by clicking on the upload button. This upload button was available after login with ID and Password which was provided for viewing the question.

An online cloud platform was used for conducting this examinations.

Examination activities:

- Examination Form fill up by students using integrated examination portal
- Online Examination Fee payment by students through NIT payment portal
- Admit Card printing by students from online portal
- Online paper-setting and moderation by subject faculty and separate moderator nominated by respective departments
- Online examination by students using their ID and Password in smart phone or Laptop / PC

Summary of Examination Center Details for Session 2021-22		
Semester Examination		**ODD Semester**
Number of Rooms Allocated		NA
Examination Sessions per day		2
Number of Staff on duty at Examination Cell		15
Number of Supervisors		3
Number of Internal Roving Observer per session		NA

Summary of Examination Center Details for Session 2021-22		
Semester Examination		ODD Semester
Number of External Roving Observer per session		NA
Number of Invigilators per session		NA
Number of Students Appeared		2984

Even Semester 2020-2021:

Question Paper download links were available in the Examination day Master Sheet put up on the NIT website one day before the examination. Students could click on the link to download the specific subject question paper. All question papers were password protected. Passwords were made available to the students 10 minutes before the start of the examination.

Students were given an extra 30 minutes to scan the hard copy answer script at the end of the examination, make a single PDF file and upload to a drive link in the central server. Separate drive link for upload was specified in each question paper. Student credentials such as name, roll number, semester, and subject code were verified online on clicking the link to eliminate any errors in upload.

It was mandatory for the students to submit the hard copy answer scripts to the department of COE within 30 days from the last date of theory examination.

The following examination activities were fully automated through online Examination Portal:

- Examination Form fill up by students using integrated examination portal
- Admit Card printing by students from online portal
- Internal Marks fill up by faculty
- Semester Examination Marks fill up by faculty
- Result Processing and Publication
- Grade Card and Provisional Certificate Printing

Three-step approval process is followed for examination form fill up by students.

Step 1 – Accounts approval for Semester Fee clearance
Step 2 – Head of the Department approval for class attendance in the semester
Step 3 – Accounts approval for Examination Fee payment

Summary of Examination Center Details for Session 2021-22		
Semester Examination		EVEN Semester
Number of Rooms Allocated		NA

Summary of Examination Center Details for Session 2021-22		
Semester Examination		EVEN Semester
Examination Sessions per day		21
Number of Staff for monitoring		15
Number of Supervisors		3
Number of Internal Roving Observer per session		NA
Number of External Roving Observer per session		NA
Number of Invigilators per session		NA
Number of Students Appeared		2983

Evaluation and assessment

Odd Semester:

All faculty were provided with separate login ID and password for access to the DVS system. Evaluation of all scripts were done by the faculty in online mode using their laptop or PC client at Compute Lab after login to the integrated examination portal. The faculty were provided online answer script, question paper with section, sub-section and number break-ups. The faculty were also provided with categorized annotation facility and answer key. Marks were awarded by the faculty for each question number only. The internal marks were directly entered online by respective faculty from the logins provided to respective departments. The tabulation and result processing were automated.

After result processing, TR sheets were sent by the external agency vide email to COE and after verification consent was given for online result publication. After online publication, semester grade cards of all students were printed at department of COE from the integrated examination portal for distribution to the students.

Even Semester:

All faculties were provided with a drive link where all the students are enlisted and a specific link for answer script was provided for each student for each subject. During evaluation each student was rewarded with marks against the question number he/she attend. After evaluation the total marks were calculated automatically. This process was carried out for all subjects. The faculty were provided online answer script, question paper with section, sub-section and number break-ups. The internal marks were directly entered online by respective faculty from the logins provided to respective departments. The tabulation and result processing were automated.

After result processing, TR sheets were sent by the external agency vide email to COE and after verification consent was given for online result publication. After online publication, semester grade cards of all students were printed at department of COE from the integrated examination portal for distribution to the students.

Evaluation of Theory Papers (70 marks)

All appointment for examination of answer scripts were awarded to external faculty. The external faculty checked each answer script and entered marks awarded for each question. All evaluation was carried out by the examiners in online mode with automated tabulation facility.

Scrutiny was completely automated using the Digital Valuation System (DVS).

For distribution to Head Examiners, 10% of the answer script packets were randomly selected by the DVS and mapped to Head Examiners. All such re-evaluation was carried out by the Head Examiners in online mode with automated tabulation facility.

Internal Marks for Theory Papers (30 marks)

The internal marks were awarded by the internal faculty for the respective courses conducted by them as follows:

> Average of two Slot Tests: 15 marks
> Assignment & Quiz: 10 marks
> Attendance: 5 marks

All marks were entered in the Examination Portal from the department using login IDs of faculty. A printout of all marks entered was taken out from the faculty login and submitted to the department of COE.

Evaluation of Practicals / Sessionals (100 marks)

For the Semester Examination of Practicals / Sessionals, external examiners were appointed.

In the semester examination of each laboratory practical course, the course teacher had assigned experiments to be conducted by groups of 4 or less number of students after holding a lottery. The assessment of the student performance for experiment was done in consultation with the external examiner (40 Marks). Viva-voce was conducted in presence of the external faculty and the course teacher. The assessment of student performance in viva-voce was done by each internal faculty in consultation with the external faculty (20 marks).The course teacher had awarded the marks for student performance in laboratory classes based on the Continuous Evaluation sheets for each student (40 Marks).

For Sessional items where the formal Institutional contact hours are not specified, (viz. Online courses, Internships, Co-curricular/Extra-curricular activities etc.), or there are no formal End-semester examination of the written kind, (viz. Comprehensive Viva-voce, Seminar, Industrial Visits, etc.), an External Expert of the relevant field was appointed. For all items under these categories, assessment of student performance in viva-voce was done by the internal faculty in consultation with the external expert (100 marks).

All marks were entered in the Examination Portal from the department using login IDs of faculty. A printout of all marks entered was taken out from the faculty login and submitted to the department of COE. A summary of evaluation for theory papers has been given below.

Summary of Evaluation of Theory Papers for Session 2021-22		
Description	ODD Semester	EVEN Semester
Number of Answer scripts	14370	14340
Number of Evaluators (External)	65	65
Number of Head Examiners (Internal)	30	30

Result Publication

Result Processing was automated through an internet enabled server using a software supported by an external agency. After result processing, TR sheets were sent by the external agency vide email to COE. The result from the TR sheets were verified and summarized at department of COE. Before publication of results of each semester, a meeting of the Board of Examination was conducted and the summary of the results were discussed. After verification consent was given to the external agency for online result publication. After online publication, semester grade cards of all students were printed at the department of COE and distributed to the students.

Result Analysis

Odd Sem 2021

Average SGPA of the college for Odd semester 2021: 8.85

Department wise average SGPA for Odd Semester 2021

	CE (B.Tech)	CSE (B.Tech)	ECE (B.Tech)	EE (B.Tech)	EIE (B.Tech)	IT (B.Tech)	ME (B.Tech)	AIML (B.Tech)	CSBS (B.Tech)	CST (B.Tech)	MCA	CSE (M.Tech)	ECE (M.Tech)	GTE (M.Tech)	PS (M.Tech)	SE (M.Tech)
SGPA	8.70	8.92	8.98	8.74	8.54	9.04	8.41	8.83	8.61	9.10	8.66	9.17	8.43	8.67	8.55	8.70
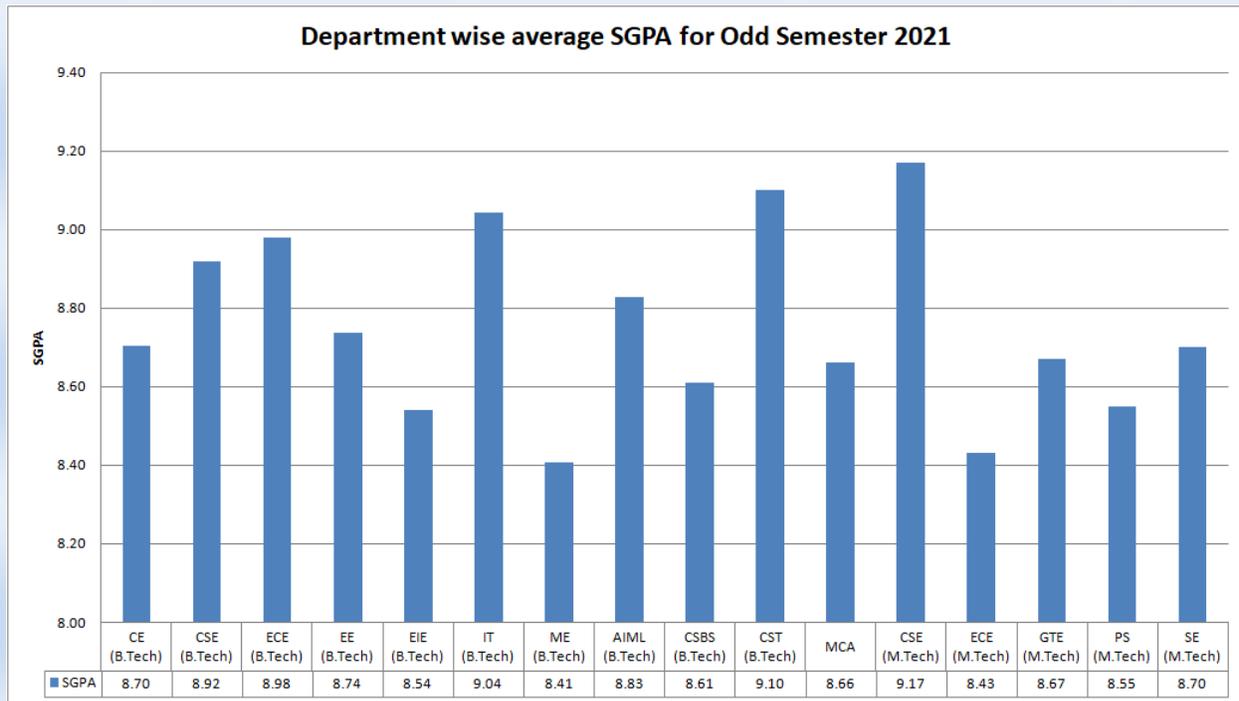
Even Sem 2022

Average SGPA of the college for Even semester 2022: 8.11

Department wise Average SGPA for Even Semester 2022

	CE (B.Tech)	CSE (B.Tech)	ECE (B.Tech)	EE (B.Tech)	EIE (B.Tech)	IT (B.Tech)	ME (B.Tech)	AIML (B.Tech)	CSBS (B.Tech)	CST (B.Tech)	MCA	CSE (M.Tech)	ECE (M.Tech)	GTE (M.Tech)	PS (M.Tech)	SE (M.Tech)
SGPA	7.55	8.28	8.34	7.92	7.92	8.09	7.84	8.10	7.62	7.72	8.66	8.97	8.49	8.78	9.15	8.29
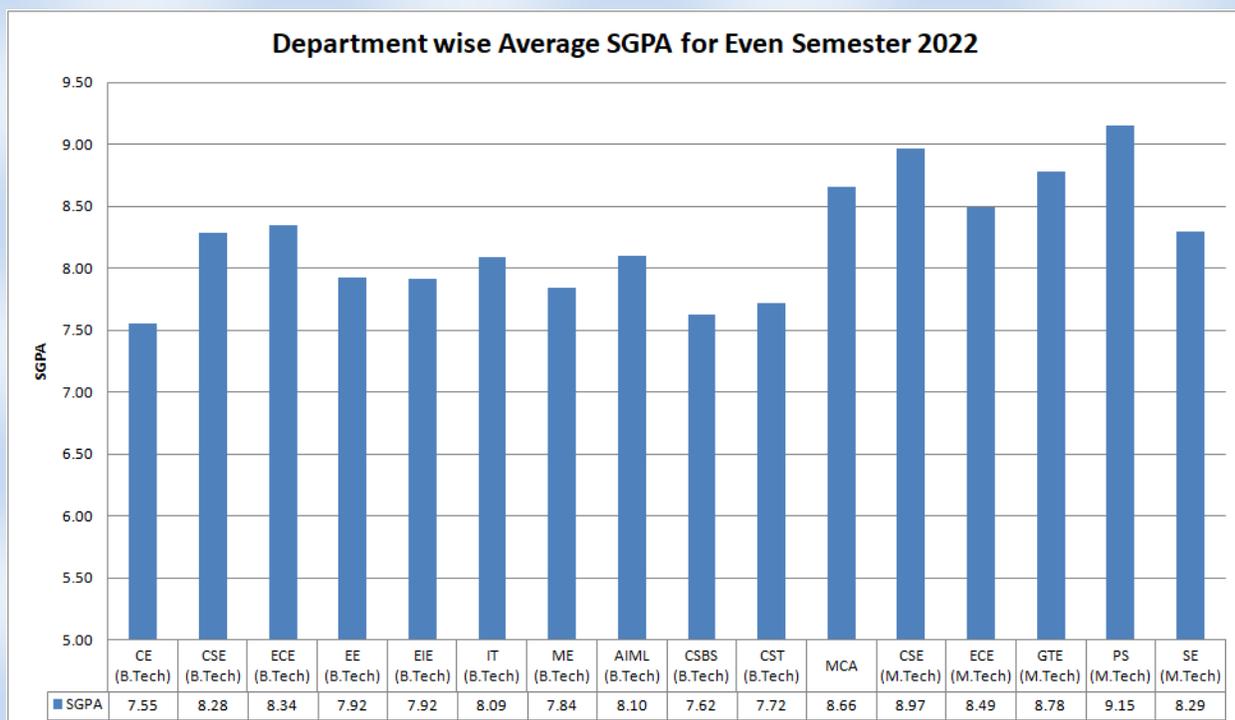
STUDENT APPEARED	STUDENT PASSED	PASS PERCENTAGE
805	782	97.14

rievances Reported by Students

Answer Script Scrutiny by Students

Notices inviting application for post-publication scrutiny (PPS) from students were issued within 7 days of publication of result. Students not satisfied with the grades, could apply for scrutiny of answer script of specific subjects by filling up a prescribed format and submitting the same within a time window specified in the notice. In presence of the faculty who scrutinized the answer scripts after evaluation, students were permitted to scrutinize an answer script. The details regarding students who submitted PPS applications in the academic year 2020-2021 are given below.

Description of Parameter	ODD Semester	EVEN Semester
Number of Answer Scripts involved in PPS Applications submitted by students	2	1
Number of Answer Scripts where awarded marks changed after scrutiny	1	nil

Review Application and Re-evaluation

Notices inviting application for post-publication review (PPR) from students were issued within 7 days of publication of result. Students not satisfied with the evaluation, could apply for re-evaluation by filling up a prescribed format and submitting the same within a time window specified in the notice. Since all main evaluation was done by an external faculty, the re-evaluation was assigned to an internal faculty. The details regarding students who submitted PPR applications in the academic year 2020-21 are given below.

Description of Parameter	ODD Semester	EVEN Semester
Number of Answer Scripts involved in Review Applications submitted by students	2	2
Number of Answer Scripts where awarded marks changed after Re-evaluation	1	nil

Automation of Examination System

The following examination activities were fully automated.

1. Examination Form fill up by students using online portal

2. Attendance approval from HOD was introduced which is automatically approved based on their class attendance.

3. Students can submit examination fees and form online

4. Students can download the admit card from the examination portal

5. List of students appearing in examination is prepared automatically

6. Examination schedule was entered into the online system so that questions can be downloaded only on that day and at specified time for the transparency of examination.

7. Day-wise attendance sheet for all examination schedule from the online system are generated.

8. Question downloading could be done by clicking on the link which was password protected and given in master sheet.

9. All evaluation was carried out by the examiners in online mode with automated tabulation facility.

10. Scrutiny was completely automated using the Digital Valuation System (DVS).

11. Re-evaluation was carried out by the Head Examiners in online mode with automated tabulation facility.

12. Internal marks were entered in the examination portal from the department using login IDs.

13. Result Publication

14. Grade Card and Provisional Certificate Printing.

Chapter 5   Faculty Development Activities

Research &Development

Grants Recieved

Details of grants received from Government and Non-governmental agencies for research projects, endowments, Chairs in the institution during the year (INR in lakhs),
Details of teachers having research projects during the year
Details of Departments having research projects funded by Government and/or Non-government agencies during the year

Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/Non-Government)	Funds provided (INR in lakhs)	Month and Year of receving the grant	Duration of the Project
Dr. Biman Mukherjee	CE	AICTE	Government	1.90996	2021-2022	1 Year
Dr. Bidyut Medya	IT	AICTE-MODROBS	Government	7.20000	2021-2022	2 Years
Mr. Soumen Pal	ECE	AICTE-ISTE	Government	0.81000	2021-2022	1 Year
Dr. Sandhya Pattanayak	ECE	AICTE	Government	2.25000	2021-2022	1 Year
Dr. Tapan Kr Mukhopadhyay	BSHU	DAE , BRNS	Government	10.21525	2021-2022	2 Years
Dr. Sandhya Pattanayak	ECE	M/S ESL Technologies	Non government	9.00000	2021-2022	3 Years
Mr Soumen Pal	ECE	M/S ESL Technologies	Non government	9.00000	2021-2022	3 Years
Dr. Biman Mukherjee	CE	Maxim Constructions Pvt.Ltd.	Non government	8.00000	2021-2022	3 Years
Mr. Arya Banerjee	CE	R S Engineering Works	Non government	4.10000	2021-2022	3 Years
Mr. Subhankar Dey	CE	B S Geotech Pvt. Ltd.	Non government	7.50000	2021-2022	3 Years
Dr. Bishaljit Paul	EE	Habbtech Technologies	Non government	7.80000	2021-2022	3 Years

Mr. Arkendu Mitra	EE	A G Engineering and Consulting	Non government	8.00000	2021-2022	3 Years
Mr. Sumanta Kundu	EE	A G Engineering and Consulting	Non government	9.90000	2021-2022	3 Years
Mr. Pallav Dutta	EE	A G Engineering and Consulting	Non government	8.71039	2021-2022	3 years
Dr. Rupa Bhattacharyya	BSHU	Jharna Chemicals Pvt. Ltd	Non government	8.00000	2021-2022	3 Years
Dr. Sumit Nandi	BSHU	Jharna Chemicals Pvt. Ltd	Non government	7.00000	2021-2022	3 Years
Mr. Kaushik Karmakar	CSE	Ardent Infocom Pvt. Ltd.	Non government	8.00000	2021-2022	3 Years
Mr. Ashifuddin Mondal	CSE	Ardent Infocom Pvt. Ltd.	Non government	7.60000	2021-2022	3 Years
Ms. Ananya Banerjee	CSE	Ardent Infocom Pvt. Ltd.	Non government	8.76000	2021-2022	3 Years
Ms. Sujata Kundu	IT	Prinston IT Solutions Pvt. Ltd	Non government	5.00000	2021-2022	3 Years
Mr Anirban Bhar	IT	Prinston IT Solutions Pvt. Ltd	Non government	6.70000	2021-2022	3 Years
Ms. Sanghamitra Layek	EIE	Prinston IT Solutions Pvt. Ltd	Non government	2.29000	2021-2022	3 Years
Dr. Sumit Chabri	ME	Bosh & Rexroth	Non government	7.00000	2021-2022	3 Years
Mr Argya Gupta	ME	Bosh & Rexroth	Non government	9.00000	2021-2022	3 Years

Journal publication 2021-2022

Name of the Dept.	Name of the faculty	Title of the Paper	Name of the Journal
Publication 2021-2022			
ECE	Anilesh Dey	How to realize the effect of Kundalini yoga and Chinese Chi meditation on the HRV and ANS with GAN architecture? HRV-GAN: An alternative approach	Biomedical Signal Processing and Control
ECE	Sangita Roy, Arnima Das, Arpita Santra	Door lock using Arduino motion detector by PIR sensor	International Journal of Advance Research, Ideas and Innovations in Technology
ECE	Sangita Roy	Smart pothole detection system using crowd sourcing	International Journal of Advance Research, Ideas and Innovations in Technology
ECE	Rimpi Datta	FINGERPRINT BASED BIOMETRIC ATTENDANCE SYSTEM USING ARDUINO	International Research Journal of Modernization in Engineering Technology and Science
ECE	Swastika Chakraborty	Modeling of Ka band Slant Path Rain Attenuation for Hilly Tropical Region	Advances in space research

ECE	Arpita Santra, Arnima Das, Dr. Sangita Roy	Renewable Energy: A Solution in Modern Era for Energy Sector	International Journal of Research Publication and Reviews
ECE	Arpita Santra, Arnima Das, Dr. Sangita Roy	Smoke Detector Using Smoke Detector	International Journal of Research Publication and Reviews
ECE	Pranab Hazra	Road Detection and Segmentation using OpenCV	Journal of Positive School Psychology
ECE	Dr. Sangita Roy	POTHOLE DETECTION SYSTEM USING YOLO ALGORITHM	International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), March,2022, Vol-4(3)
ECE	Amit Nigam,Sangita Roy	IMAGE DEHAZING ADVANCEMENT	JETIR (Journal of Emerging Technologies and Innovative Research)
ECE	Moupali Roy	Road Detection and Segmentation using OpenCV	Journal of Positive School Psychology
ECE	Dr. Anilesh Dey	Student Management System	JETIR (Journal of Emerging Technologies and Innovative Research)
ECE	Kaushik Sarkar	IoT in Agriculture	International Research Journal of Engineering and Technology (IRJET)

ECE	Sandhya Pattanayak	Smart Garbage Bin	IJARIIT Journal
ECE	Sandhya Pattanayak	Water sensor based automatic water levelmonitoring and pump system	Journal of Emerging technologies and innovative research (JETIR), April 2022, vol 9 issue 4
ECE	Sandhya Pattanayak	Sensor based Automatic Smart Medicine Dispensing Box	Journal of Emerging technologies and innovative research (JETIR), accepted
ECE	Anilesh Dey	Sensor based Automatic Smart Medicine Dispensing Box	Journal of Emerging technologies and innovative research (JETIR), accepted
ECE	Abhijit Ghosh	Road Detection and Segmentation using OpenCV	Journal of Positive School Psychology
ECE	Rimpi Datta	Virtual Personal Assistance the use of Python	Journal of Emerging technologies and innovative research, Volume 9 Issue 5 May-2022 eISSN: 2349-5162
ECE	Rimpi Datta	College Management System Using Python Programming	Journal of Emerging technologies and innovative research, Volume 9 Issue 5 , May-2022. (ISSN : 2349-5162)
ECE	Rimpi Datta	Smart Door Lock with YOLO-LITE ARDUINO motion Detector by PIR Sensorface Mask Detection	Journal of Emerging technologies and innovative research, Volume 9 Issue 5 , May-2022. (ISSN : 2349-5162)
ECE	Rimpi Datta	Smart Street light	Journal of Emerging technologies and innovative research, Accepted.

ECE	Dr. Sangita Roy	Importance of English in Engineering	International Conference on English Language and Literature in the Pedagogical Perspective: Embracing the Landscape Shift through Innovative Practices (ICELLP 2K22), 27-28 May,2022
ECE	Dr. Sangita Roy, Arpita Santra	Comparative Study of Edge-Preserving Smoothing Bilateral Filter	Journal of Emerging Technologies and Innovative Research (JETIR)
ECE	Dr. Sangita Roy	Development Of Improved Visibility Restoration Techniques	LAMBERT Academic Publishing
EE	MS. PRATYUSHA BISWAS DEB	ON THE EXTENSIONS OF VIRIAL AND FEYNMAN-HELLMAN THEOREM	INTERNATIONAL JOURNAL OF SCIENCE AND RESEARCH
EE	Prof. (Dr.) Ambarnath Banerji	Economic Analysis for the Players participating in a Hybrid Solar Virtual Power Plant	3rd IEEE Conference on VLSI Device, Circuit and System, IEEE VLSI DCS 2022
EE	Prof.(Dr.) Ambarnath Banerji	Emerging Trend in Power Generation and Utilization	Environmental Monitoring (ISSN Online: 2771-988X), 4D Publishing Group, April 2022 Vol.1, No.1, pp. 8-14
EE	Amlan Chakrabarti	A Method to Mitigate the impact of Cycling Operation and CarbonEmissions	International Journal of Energy for a Clean Environment (ISSN: 2150-363X), Volume 23 Issue (3) Pages: 77–103 (2022)
EIE	Dr. Dibyendu Sur	Atmospheric Sciences Perspectives on Integrated, Coordi-nated, Open, Networked (ICON) Science	Earth and Space Science
EIE	Dr. Dibyendu Sur	Geomagnetism, Paleomagnetism and Electromagnetism Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science	Earth and Space Science

EIE	Dr. Dibyendu Sur	High and mid latitude and near subsolar point ionospheric and thermospheric responses to the solar flares and geomagnetic storms during low solar activity periods of 2017 and 2020	Advances in Space Research, Elsevier
EIE	Dr. Dibyendu Sur	Investigation of the negative ionospheric response of the 8 September 2017 geomagnetic storm over the European sector	Advances in Space Research, Elsevier
BS&HU	Dr. Sumit Nandi and Swarnendu Mitra	Effect of mixing intensity for biodiesel production from coconut acid oil	International Journal of Enhanced Research in Science, Technology & Engineering
CSE	Chandrima Chakrabarti	iCredit: A Credit Based Incentive Scheme to Combat Double Spending in Post-Disaster Peer-to-Peer Opportunistic Communication Over Delay Tolerant Network	Wireless Personal Communications
CSE	Koushik Karmakar	A priority based routing protocol to improve Quality of Service (QoS) in Wireless Body Area Network for COVID and diabetic patients	Conference paper: 3rd International Conference on Communication, Devices and Computing - ICCDC 2021
CSE	Koushik Karmakar	Application of Relay nodes in WBAN based smart healthcare for energy conservation explained with case studies	Conference paper: 2nd - International Conference on Computer Vision, High Performance Computing, Smart Devices and Networks (CHSN-2021) 20-21 August, 2021

BS&HU	Dr. Avishek Chakraborty	A New Technique to Solve Transportation Problems Using De-Pythagorean Value in Generalized Interval Valued Pythagorean Environment	International Journal of Fuzzy System Applications (IJFSA)
BS&HU	Dr. Avishek Chakraborty	A job-sequencing problem using modified score function in PNN environment	International Journal of Hybrid Intelligence
CSE	Koushik Karmakar	FDRF: Fault Detection and Recovery Framework for Seamless Data Transmission in Remote Health Monitoring Using WBAN	Springer Journal: "Wireless Personal Communications"
BSHU	Sumit Nandi, Rupa Bhattacharyya and Binita Mandal	Enzymatic preparation of biodiesel from Mahua oil (Madhuca Indica) and its characterization	International Journal of Enhanced Research in Science, Technology & Engineering
BSHU(Mathematics)	Dr. Shilpi Pal	Nonlinear pentagonal intuitionistic fuzzy number and its application in EPQ model under learning and forgetting	Complex & Intelligent Systems
BSHU(English)	Sharmistha Basu	Ramification Of Unbridled Urbanization In Kolkata : A Study On The Increased Air Pollution And Health Issues	Indian Journal of Environmental Protection(Vol. 41 No. 11 pp 1310-1315)
BSHU(English)	Sharmistha Basu	Social Work Intervention amidst Covid-19 Pandemic(Book chapter) P:66-76	Pandemic And Social Work(Book name)978-ISBN: 93-88069-69-4 published by Levant Books India

BSHU (Chemistry)	Dr. Rupa Bhattacharyya, Dr. Sumit Nandi	Influence of nano CaCO3 in mechanical property modification of PVC-poly (ethyl acrylate) blends	Journal of Chemical, Biological and Physical Sciences
BSHU (Chemistry)	Dr. Sumit Nandi, Dr. Rupa Bhattacharyya	Effect of Mixing Intensity for Biodiesel Production from Palm Fatty Acid Distillate	Indian Journal of Natural Sciences
BSHU (Chemistry)	Dr. Sumit Nandi, Dr. Rupa Bhattacharyya	Blended fuel from Mahua Oil (Madhuca Indica) and its characterization	Journal of Environmental Science, Computer Science and Engineering & Technology
BSHU	Sarbani Ganguly and Sumit Nandi	Oil meals: A novel cheap source of prebiotic food materials	International Journal of Enhanced Research in Science, Technology & Engineering
CSE	Shubhendu Banerjee	Diagnoses of Melanoma Lesion Using YOLOv3	Springer Book Chapter: Lecture Notes in Electrical Engineering
ECE	Kaushik Sarkar	Word Boundary Detection Using Convolutional Neural Network (CNN) and Decision Tree Method	Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)
ECE	Dr. Anilesh Dey	Effect of Cognitive Task on the Central Nervous System	Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)
ECE	Dr. Anilesh Dey	Face Detection and Extraction Using Viola–Jones Algorithm	Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)

ECE	Dr. Anilesh Dey	Brain Computer Interface: A Review	Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)
ECE	Arpita Santra, Arnima Das, Dr. M. R. Kanjilal	Study of Micro-Strip Patch Antenna for Applications in Contact-less Door Bell Looking at the COVID-19 Pandemic Situation	Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)
Information Technology	Tamasree Biswas, Suchismita Maiti	Mask Detection and Alignment using Deep Learning Model	2nd International Conference on Microelectronics, Communication Systems, Machine Learning & Internet of Things (MCMI-2021)
EE	Dr. Bishaljit Paul	Contingency Analysis and Ranking for a 30 Bus System to Maintain Its Stability and Reliability	Computational Advancement in Communication, Circuits and Systems
EE	Dr. Bishaljit Paul	Price Sensitivity in a 30 Bus Congested Power System	Computational Advancement in Communication, Circuits and Systems
EE	Dr. Bishaljit Paul	Security of Load Flow Analysis with Photovoltaic Energy Sources	Computational Advancement in Communication, Circuits and Systems
EE	Dr. Bishaljit Paul	Evaluation of Azimuth Angle Profile for Solar Photovoltaic System in Humid Subtropical Climate of Varanasi City	Computational Advancement in Communication, Circuits and Systems
BSHU	Sumit Nandi, Debopriya Dey and Rupa Bhattacharyya	Prediction of blended fuel characteristic through regression modelling	Proceedings of ICCACCS 2020 (Springer)

CSE	Koushik Karmakar	An intelligent vehicular communication based framework to provide seamless connectivity in WBAN (Accepted)	Conference paper: International Conference on Communication, Devices and Networking (ICCDN 2021)
ECE	Sangita Roy	Single Image Very Deep Super Resolution (SIVDSR) Dehaze	IEEE BECITHCON 2021
BS&HU	Dr. Avishek Chakraborty and Dr. Shilpi Pal	Nonlinear pentagonal intuitionistic fuzzy number and its application in EPQ model under learning and forgetting	Complex and Intelligence System
BS&HU	Ms. Sharmistha Basu ,Dr. Avishek Chakraborty, Mr.Suvendu Banerjee, Mr.Atanu Das ,Mr.Rajib Bag, Mr.Sumit Kr.Singh	Diagnosis of Melanoma Lesion Using Neutrosophic and Deep Learning	Traitement du Signal
ECE	Sangita Roy	IoT based pothole recognition framework	(International Journal of Advance Research, Ideas and Innovations in Technology
ECE	Amit Nigam	IoT based pothole recognition framework	(International Journal of Advance Research, Ideas and Innovations in Technology

Conference publications 2020-2021

ECE

Sl. No.	Name of the Faculty	Title of the paper	Conference Details	Title of the proceedings of the conference	Academic Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher	Citations
1	Dr. Sangita Roy	Single Image Very Deep Super Resolution (SIVDSR) Dehaze	BECITHCON2021	Proceedings of BECITHCON2021	2021-2022	ISBN: 978-1-6654-6622-6 doi: 10.1109/BECITHCON54710.2021.9893583	BECITHCON2021	
2	ARPITA SANTRA, Arnima Das,	On some findings on Micro-strip Patch antenna for Biomedical applications	36th Indian Engineering Congress (IEC)	Proceedings of 36th Indian Engineering Congress (IEC)	2021-2022	ISBN 978-81-955500-1-2 DOI:10.36375/prepare_u.iei.a146	36th Indian Engineering Congress (IEC)	

3	Arpita Santra,	Study of Micro-Strip Patch Antenna for Applications in Contact-less Door Bell Looking at the COVID-19 Pandemic Situation	Computational Advancement in Communication, Circuits and Systems	Proceedings of Computational Advancement in Communication, Circuits and Systems	2021-2022	SBN: 978-981-16-4035-3 DOI https://doi.org/10.1007/978-981-16-4035-3_31	Computational Advancement in Communication, Circuits and Systems	
4	Dr. Anilesh Dey	face detection and extraction using Viola jones Algorithm	Computational Advancement in Communication, Circuits and Systems	Proceedings of Computational Advancement in Communication, Circuits and Systems	2021-2022	SBN: 978-981-16-4035-3 DOI https://doi.org/10.1007/978-981-16-4035-3_9	Computational Advancement in Communication, Circuits and Systems	
5	Dr. Sangita Roy	SINGLE IMAGE DEHAZING WITH DEEP RETINEX FRAMEWORK	NCSTCS-2K21	Proceedings of NCSTCS-2K21	2021-2022	ISBN: 978-93-89817-63-8	Ideal International E – Publication Pvt. Ltd.	

| 6 | Dr. Sangita Roy | Importance of English in Engineering | International Conference on English Language and Literature in the Pedagogical Perspective : Embracing the Landscape Shift through Innovative Practices (ICELLP 2K22) | Proceedings of International Conference on English Language and Literature in the Pedagogical Perspective : Embracing the Landscape Shift through Innovative Practices (ICELLP 2K22) | 2021-2022 | ISBN: 978-93-89817-77-5 | | Ideal International E – Publication Pvt. Ltd. | |

CSE

Name of Author	Name of the Co-Authors	Title of Publication	Name of the Conference	Topic of Relevance	Indexed in (SCI/Scopus/Web of Science/ Thomson Reuters/Others)	ISSN/ISBN/DOI	URL of the publications (Link of the International /National Conferenc)

Safikureshi Mondal	Z. Rehena	Challenges and Limitations of Social Data Analysis Approaches	Internet of Things Based Smart Healthcare: Intelligent and Secure Solutions Applying Machine Learning Techniques	SNA			
Safikureshi Mondal	Z. Rehena , N. Mukherje e	Social Data Analysis Techniques and Applicatio ns	Internet of Things Based Smart Healthcare: Intelligent and Secure Solutions Applying Machine Learning Techniques	SNA			

Safikureshi Mondal	Nandini Mukherjee	MICR: Mobile-Assisted Immunization of Child in Remote Healthcare	4th International Conference on Intelligent Computing and Communication (ICICC - 2020)	Healthcare		
Safikureshi Mondal	Nandini Mukherjee	Efficient NoSQL Graph Database for Storage and Access of Health data	4th International Conference on Intelligent Computing and Communication (ICICC - 2020)	Healthcare		
Md Ashifuddin Mondal	Zeenat Rehena	Common Ticketing Service in Multi-modal Transportation System	2nd International Conference on Advanced Comput-ing and Applications, Spring-er-AISC Series		978-981-16-5207-3	

Koushik karmakar	Sohail Saif, Suparna Biswas, Sarmistha Neogy	A priority based routing protocol to improve Quality of Service (QoS) in Wireless Body Area Network for COVID and diabetic patients	3rd International Conference on Communication, Devices and Computing (ICCDC 2021)	Healthcare			
Koushik karmakar	Sohail Saif, Suparna Biswas, Sarmistha Neogy	Application of relay nodes in WBAN based smart healthcare for energy conservation explained with case studies	International Conference on Computer Vision, High Performance Computing, Smart Devices and Networks (CHSN 2021) Jawaharlal Nehru Technological University Kakinada	Healthcare			

Shubhend u Banerjee	Sumit Kumar Singh, Atanu Das, Rajib Bag	Diagnoses of Melanoma Lesion Using YOLOv3	Computatio nal Advan cement in Communicati on, Circui ts and Syste ms	Medica l Imagin g	Scopus	1876-1100	https://link.spri nger.com/chap ter/10.1007/97 8-981-16-4035-3_26
Subhram Das	Arijit Das, Tanisha Khan, D. K. Bhattach arya	Proper choice of a machine learning algorithm for breast cancer prediction	Lectur e Notes in Electri cal Engin eering, Comp utatio nal Advan cement in Comm unicati on Circui ts and Syste ms	Machin e Learnin g	Scopus	978-981-16-4034-6	https://link.spri nger.com/chap ter/10.1007/97 8-981-16-4035-3_1
Subhram Das	Navoneel Moitra, Akanksh a Singh	Use of Convoluti onal Neural Network(CNN) to detect plant disease	Lectur e Notes in Electri cal Engin eering, Comp utatio nal Advan cement in Comm unicati on	Machin e Learnin g	Scopus	978-981-16-4034-6	https://link.spri nger.com/chap ter/10.1007/97 8-981-16-4035-3_5

			Circuits and Systems				
Subhram Das	Kumar Kalpadiptya Roy, Ipsita Mazumder, Arijit Das	Detection of COVID-19 using deep transfer learning-based approach from X-ray and Computed Tomography(CT) images	Lecture Notes in Electrical Engineering, Computational Advancement in Communication Circuits and Systems	Machine Learning	Scopus	978-981-16-4034-6	https://link.springer.com/chapter/10.1007/978-981-16-4035-3_27
Jayanta Pal	Ghosh, S., Maji, B. and Bhattacharya, D.K.	A Unique Approach for Comparison of Protein Sequence Using PCA Analysis	International Conference on Technological Advancements and Innovations(ICTAI-2021)	Bioinformatics		doi: 10.1109/ICTAI53825.2021.9673245.	doi: 10.1109/ICTAI53825.2021.9673245.

Jayanta Pal	Ghosh, S., Maji, B. and Bhattacharya, D.K.	Protein Sequence Comparison on Fuzzy Matrix Amino Acid Space	International Conference on Technological Advancements and Innovations(ICTAI -2021)	Bioinformatics		doi: 10.1109/ICTAI538 25.2021. 9673411	doi: 10.1109/ICTA I53825.2021.9 673411
Debjani Chakraborty	S.Choudhury,S.Dutta, B. Halder	Identification of Tampering Image Using SIFT Descriptor	2021 Sixth International Conference on Image Information Processing (ICIIP)	IMAGE PROCESSING		10.1109/ICIIP53038.2021.9702601	10.1109/ICIIP53038.2021.9702601

EE

Sl. No.	TitleoftheConferencePublication	DOI
1	EconomicAnalysisforthePlayersParticipatingi naHybrid SolarVirtual PowerPlant	https://doi.org/10.1109/VLSIDCS537 88.20 22.9811469
2	PSOOptimizedDecentralizedSecondaryControl for Frequency and Voltage Restoration inIslandedAC Microgrid	https://doi.org/10.1109/INDICON525 76.20 21.9691587
3	IntegrationofStocasticEnergyforRealTime Balancingand Pricing	https://doi.org/10.1109/ICEPE55035. 2022. 9798386
4	AReviewonDemandResponseTechniquesofL oadManagementin SmartGrid	https://doi.org/10.1109/IPRECON524 53.2 021.9640693

5	AnalysisofSeriesLoadResonant(SLR)DC–DCConverterunderDifferentModesofOperation	https://doi.org/10.1109/PARC52418.2022.9726544
6	ApplicationofSignalProcessingandArtificial Neural Network in Modelling of a scheme ofDistance Relaying System for Protection ofOverheadTransmission Lines	https://doi.org/10.1049/icp.2021.1094
7	Scheduling of Generation and Loads ThroughMarketClearingAuctioninaDynamicPowerMarket	https://doi.org/10.1109/ICEPE55035.2022.9798194
8	Application of FFT for Detection of LowImpedanceFaultsinPowerSystemNetwork	ISSN: 2278-0181
9	Application of FFT for Detection of HighImpedanceFaultsinPowerSystemNetwork	ISSN: 2278-0181
10	ApplicationofS-TransformforDetectionofHighImpedance FaultsinPowerSystem	ISSN: 2278-0181
11	Co-optimization of Energy and ReserveCapacitiesthroughExpectedLoadNotServed	https://actsoft.org/esda2021
12	BalancingPowerMarketinaCongestedSystemthroughStocasticProduction	https://actsoft.org/esda2021
13	ImpactofDGIntegrationonProtection Coordination&Possible Solutions	https://actsoft.org/esda2021

IT

S. No	Name of the Authors	Title	Title of the proceedings of the conference	Publisher	ISBN/ISSN number of the proceeding
1	Soumya Bhattacharyya, Sujata Kundu, Shyamapriya Chatterjee	Impacts of COVID-19: A Comprehensive Study Using Linear Regression Analysis in a Predictive Approach	Proceedings of 3rd ICCACCS 2020	Springer, Singapore	ISBN:978-981-16-4034-6
2	Tamasree Biswas, Mousumi Saha, Debpuja Dhar	Impact of Atmospheric Features for Covid-19 Prediction	Proceedings of 3rd ICCACCS 2020	Springer, Singapore	ISBN:978-981-16-4034-6
3	Sujata Kundu, Soumya Bhattacharyya, Shyamapriya Chowdhury	Women at Workplace	International Conference on The Future of Women in Technology FOWT-2021	-	-
4	Sujata Kundu, Soumya Bhattacharyya, Shyamapriya Chowdhury	Legal Status of Women's Rights in Indian Constitution	International Conference on The Future of Women in Technology FOWT-2021	-	-
5	Tamasree Biswas, Suchismita Maiti	Mask Detection and Alignment using Deep Learning Model	2nd International Conference on Microelectronics, Communication Systems, Machine Learning & Internet of Things (MCMI-2021)	Springer	-

CE

Name of Author	Title of Publication	Type of Publication International Journal/National Journal/International Conference/ National Conference/ Book Chapter/ Book	Name of the International Journal/National Journal/International Conference/ National Conference/ Book Chapter/ Book	Year of Publication	ISSN/ISBN/DOI
Prof. Anusua Mandal	Remedial Measures to Landslides and Utilisation of Runoff Water	National Conference	National Conference on Science, Technology & Communication Skills (NCSTCS 2K22)	2022	ISBN: 978-93-89817-42-3

ME

Name of the Faculty	Title of paper	Name of the conference	Year of Publication	Citations
Mr. Arghya Gupta	A study to find out how surface roughness, chip thickness and MRR are related to each other.	4th National Conference on Science, Technology & Communication Skills	24th -25th September, 2021	NA
Mr. Arghya Gupta	A comparative study between weight of material removed poer second v/s MRR, depth of cut v/s MRR and spindle speed v/s MRR	4th National Conference on Science, Technology & Communication Skills	24th -25th September, 2021	

BSHU

Sl. No.	Name of the Student(s) & Semester	Name of the faculty coordinator (if any)	Type of Publication (Journal/Conference/ Abstract/Proceedings/ Books/etc.)	Title of the Paper	National/ International	Date of publication	ISSN/ISBN No.
1	Nabanita Paul, Jeet Das (2nd Sem)	Dr Sarbani Ganguly	Conference Proceedings	VITAMIN–D DEFICIENCY IN CHILDERN DURING COVID PERIOD	National	24-02-2022	978-93-89817-63-8
2	Sana Afreen, Ishika Yadav(6th sem)	Dr Sarbani Ganguly	Conference Proceedings	NEW TECHNOLOGY FOR CYBER-SECURITY	National	24-02-2022	978-93-89817-63-8
3	Swagata Samanta ,Soindrila Deb (6th Sem)	Dr Sarbani Ganguly	Conference Proceedings	Prevention of Noise Pollution	National	24-02-2022	978-93-89817-63-8
4	Ankita Sen, Anoushka Dhar (3RD)	Dr. Shilpi Pal	Conference Proceedings	A STUDY ON LEAN SIX SIGMA MANAGEMENT	National	24-02-2022	978-93-89817-63-8
5	Suman Samanta, Christina Hira (3rd)	Dr. Shilpi Pal	Conference Proceedings	STUDY ON JUST-IN-TIME	National	24-02-2022	978-93-89817-63-8
6	Ishita Chatterjee, Anisha Das (3rd)	Dr. Shilpi Pal	Conference Proceedings	WAS 2020-LOCKDOWN A BOON FOR THE REDUCTION OF CARBON EMISSION OR WAS IT JUST A MYTH	National	24-02-2022	978-93-89817-63-8

7	Sudeshna Dey,Anudeepa Gon(M.Tech CSE	Sharmistha Basu	Conference Proceedings	STUDYING ENGLISH FACILITATES EMPLOYMENT: A BRIEF ANALYSIS ON COMMUNICATION SKILLS	National	24-02-2022	978-93-89817-63-8
8	Anudeepa Gona, Sudeshna Dey(M.Tech, CSE)	Sharmistha Basu	Conference Proceedings	ENGLISH: AN INDISPENSABLE LANGUAGE FOR SCIENTIFIC RESEARCH WORK	National	24-02-2022	978-93-89817-63-8
9	Anisha Das,Anoushka Dhar(B.Tech, CSE2)	Sharmistha Basu	Conference Proceedings	IMPACT OF SOFT SKILLS IN THE LIFE OF AN ENGINEER	National	24-02-2022	978-93-89817-63-8
10	Sujaan Maitra (CSE3) , Bhaskar Ganguly Neogi (ECE2)	Aparajita Paul	Conference Proceedings	SOFTWARE AND THE FUN WITH LANGUAGE ACQUISITION	National	24-02-2022	978-93-89817-63-8
11	Saswata Dhara (CSE2) , Isshita Ghosh (CSE2)	Aparajita Paul	Conference Proceedings	EBONICS AND BLACK ENGLISH	National	24-02-2022	978-93-89817-63-8
12	Debpuja Dhar (IT4) , Ankita Sen(CSE2)	Aparajita Paul	Conference Proceedings	CROSS-CULTURAL COMMUNICATION: A STUDY ON ETHNOCENTRISM	National	24-02-2022	978-93-89817-63-8
13	Soindrila Deb (CSE3) , Ayani Banerjee (CSE3)	Aparajita Paul	Conference Proceedings	OVERCOMING CULTURAL CLASHES	National	24-02-2022	978-93-89817-63-8
14	Saptarshi Bal(CSE2) , Shreya Adak (CSE2)	Aparajita Paul	Conference Proceedings	ROLE OF NON VERBAL COMMUNICATION IN CORPORATE COMMUNICATION	National	24-02-2022	978-93-89817-63-8

15	Shibayan Bakshi (EIE2) , Santanu Chowdhury (EIE2)	Rajasi Ray	Conference Proceedings	ARTIFICIAL INTELLIGENCE IN THE FIELD OF LITERATURE	National	24-02-2022	978-93-89817-63-8
16	Karishma Kumari (IT2)	Rajasi Ray	Conference Proceedings	ROLE OF TEACHER IN LANGUAGE ACQUISITION	National	24-02-2022	978-93-89817-63-8
17	Sayan Mondal(EIE2) , Ankita Kundu (EIE2)	Rajasi Ray	Conference Proceedings	DEVELOPMENT OF ROBOT NAVIGATION BASED ON GESTURE RECOGNITION	National	24-02-2022	978-93-89817-63-8
18	Rohit Shaw(EIE, SEM3)	Susmita Karan	Conference Proceedings	BIOMASS	National	24-02-2022	978-93-89817-63-8
19	Somak Kundu (EIE, SEM3)	Susmita Karan	Conference Proceedings	MASS ENERGY EQUIVALENCE	National	24-02-2022	978-93-89817-63-8
20	Shipra Singh and Sayaka Sinha (EIE, SEM3)	Susmita Karan	Conference Proceedings	SIMPLE HARMONIC MOTION AND LISSAJOUS FIGURE	National	24-02-2022	978-93-89817-63-8
21	Niladri Ganguly & Raktim Dutta (EIE, SEM3)	Susmita Karan	Conference Proceedings	NANOTECHNOL OGY: THE TECHNOLOGY THAT CAN BRING REVOLUTION	National	24-02-2022	978-93-89817-63-8
22	Kamya Kumari, IT	Dr. Sumit Nandi, Dr. Rupa Bhattacha ryya	Conference Proceedings	BLENDED FUEL FROM MAHUA OIL (MADHUCA INDICA)	National	24-02-2022	978-93-89817-63-8
23	Swarnendu Mitra, Moubani Majumder, EE	Dr. Sumit Nandi, Dr. Rupa Bhattacha ryya	Conference Proceedings	ANALYSIS OF STIRRING FOR TRANSESTERIFI CATION REACTION	National	24-02-2022	978-93-89817-63-8
24	Ananya Chakraborty, CSE	Dr. Rupa Bhattacha ryya, Dr. Sumit Nandi	Conference Proceedings	Role of Nano Graphene oxide in sustainability of PVC	National	24-02-2022	978-93-89817-63-8

25	Sayantan Bose, Debjani Dey	Dr. Rupa Bhattacharyya, Dr. Sumit Nandi	Conference Proceedings	Stabilization of PVC using nanosilica as the nanomaterial	National	24-02-2022	978-93-89817-63-8
26	Priyam Saha	Dr. Dhananjay Kumar Tripathi	Conference Proceedings	Effects of space weather on modern Communication system	National	24-02-2022	978-93-89817-63-8
27	Rohan Rowson & Arbaj Akhtar Ansari	Dr. Dhananjay Kumar Tripathi	Conference Proceedings	Communication in Antarctica using ANARESAT: A review	National	24-02-2022	978-93-89817-63-8
28	Sana Asif	Dr. Dhananjay Kumar Tripathi	Conference Proceedings	Limitations of air traffic Control using Radar	National	24-02-2022	978-93-89817-63-8
29	Debajit Dutta, Ratul Bhattacharjee, Debtosh Panda	Dr. Indrani Sarkar	Conference Proceedings	Bio Sensors and Applications	National	24-02-2022	ISBN: 978-93-89817-63-8
30	Devapriya Manna, Debtosh Panda	Dr. Indrani Sarkar	Conference Proceedings	Infrared Plastic Solar Cells	National	24-02-2022	ISBN: 978-93-89817-63-8
31	Saswata Ghosh, Soma Mukherjee	Dr. Indrani Sarkar	Conference Proceedings	Interactive Video Tutorials Can Be Used for Enhancing Problem Solving And	National	24-02-2022	ISBN: 978-93-89817-63-8
32	Adrija Saha, Sanlap Ghosh, Soma Mukherjee	Dr. Indrani Sarkar	Conference Proceedings	Nutritional Dietrics	National	24-02-2022	ISBN: 978-93-89817-63-8
33	Arnab Saha and Yash Raj Singh	Dr. Sumit Nandi	Conference Proceedings	Reasoning Skills of Science and Engineering Students	National	24-02-2022	978-93-89817-63-8
34	Yash Kumar Singh(3rd)	Payel Mondal	Conference Proceedings	Energy Everywhere	National	24-02-2022	978-93-89817-63-8

35	Avishek Das(3rd)	Dr. Shilpi Pal	Conference Proceedings	Linear Algebra and Modern Cryptography	National	24-02-2022	978-93-89817-63-8
36	Nilormee Sarkar(ECE-4)	Sharmistha Basu	Conference Proceedings	Challenges of tech-savvy women in the

present era | International | 11-05-2022 | 978-93-89817-64-5 |
| 37 | Sudeshna Dey,(M.Tech CSE | Sharmistha Basu | Conference Proceedings | Tech-women: an indispensable boon to

modern era | International | 11-05-2022 | 978-93-89817-64-5 |
38	Debpuja dhar (IT4)	Sharmistha Basu	Conference Proceedings	Plight of women in the it sector: a study based on the bigotry	Conference Proceedings	11-05-2022	978-93-89817-64-5
39	Pratip Chakraborty	Dr. Nikhilesh Sil and Dibyendu Biswas	Conference Proceedings	THE EFFECTS OF ZIKA VIRUS	National	24-02-2022	978-93-89817-63-8
40	Avik Ghosh	Dr. Nikhilesh Sil and Dibyendu Biswas	Conference Proceedings	DYNAMICAL BEHAVIOR OF ZIKA VIRUS	National	24-02-2022	978-93-89817-63-8
41	Sujaan Maitra	Dr. Nikhilesh Sil and Dibyendu Biswas	Conference Proceedings	THE EFFECTS OF ZIKA VIRUS ON HUMAN POPULATION	National	24-02-2022	978-93-89817-63-8
42	Ankan Das	Dr. Nikhilesh Sil	Conference Proceedings	THE BEAUTY OF GOLDEN RATIO	National	24-02-2022	978-93-89817-63-8
43	Sayan Ghosh	Dr. Nikhilesh Sil and Dibyendu Biswas	Conference Proceedings	A MATHEMATICAL APPROACH TO CONTROL FILERIASIS THROUGH INSECTISIDE SPRAYING	National	24-02-2022	978-93-89817-63-8

Books / Book Chapters

ECE

Sl. No.	Name of the Faculty	Title of the book/chapters published	Title of the Book	Academic Year of publication	Indexed in	ISBN/ISSN number of the proceeding	Name of the publisher	Citations
1	Dr. Sangita Roy, Arpita Santra, Dr. Anilesh Dey, Sourav Dutta	EDGE PRESERVING SMOOTHING BILATERAL IMAGE FILTER: A REPORT	Lambert Academic Publishing	2021-2022	Lambert Academic Publishing	9786204 979397	Lambert Academic Publishing	
2	Dr. Sangita Roy	Development Of Improved Visibility Restoration Techniques	Lambert Academic Publishing	2021-2022	Lambert Academic Publishing	9 7 8 6 2 0 4 9 5 4 5 8 5	Lambert Academic Publishing	
3	Arnima Das,	Study of Micro-Strip Patch Antenna for Applications in Contact-less Door Bell Looking at the COVID-19 Pandemic Situation	Computational Advancement in Communication, Circuits and Systems	2021-2022	Computational Advancement in Communication, Circuits and Systems	ISBN: 978-981-16-4035-3 doi: https://doi.org/10.1007/978-981-16-4035-3_31	Computational Advancement in Communication, Circuits and Systems	

4	Dr. Sangita Roy	Single Image Very Deep Super Resolution (SIVDSR) Dehaze	BECITH CON2021	2021-2022	BECIT HCON 2021	ISBN: 978-1-6654-6622-6 doi: 10.1109/ BECITH CON547 10.2021. 9893583	BECITH CON2021
5	ARPITA SANTRA, Arnima Das,	On some findings on Micro-strip Patch antenna for Biomedical applications	36th Indian Engineer ing Congress (IEC)	2021-2022	36th Indian Engine ering Congre ss (IEC)	ISBN 978-81-955500-1-2 DOI:10. 36375/pr epare_u. iei.a146	36th Indian Engineer ing Congress (IEC)
6	Kaushik Sarkar	Word Boundary Detection Using Convolutional Neural Network (CNN) and Decision Tree Method	Computa tional Advance ment in Commun ication, Circuits and Systems (ICCAC CS 2020)	2021-2022	springe r Scopus	SBN: 978-981-16-4035-3 DOI: https://d oi.org/10 .1007/97 8-981-16-4035-3_2	springer

7	Dr. Anilesh Dey	Effect of Cognitive Task on the Central Nervous System	proceedings of Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)	2021-2022	springer Scopus	SBN: 978-981-16-4035-3 DOI: https://doi.org/10.1007/978-981-16-4035-3_23	springer	
8	Dr. Anilesh Dey	Face Detection and Extraction Using Viola–Jones Algorithm	proceedings of Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)	2021-2022	springer Scopus	SBN: 978-981-16-4035-3 DOI https://doi.org/10.1007/978-981-16-4035-3_9	springer Scopus	
9	Dr. Anilesh Dey	Brain Computer Interface: A Review	proceedings of Computational Advancement in Communication, Circuits and Systems (ICCAC	2021-2022	springer Scopus	SBN: 978-981-16-4035-3 DOI https://doi.org/10.1007/978-981-16-	springer	

			CS 2020)			4035-3_3	
10	Arpita Santra, Arnima Das, Dr. M. R. Kanjilal	Study of Micro-Strip Patch Antenna for Applications in Contact-less Door Bell Looking at the COVID-19 Pandemic Situation	proceedings of Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)	2021-2022	springer Scopus	SBN: 978-981-16-4035-3 DOI https://doi.org/10.1007/978-981-16-4035-3_31	springer

CSE

Name of the Faculty	Name of the Authors	Title	Name Of The Book	Publisher	ISBN/ISSN/DOI	LINK	Month of Publication
Sagarika Chowdhury	Sagarika Chowdhury, Kazi Amrin Kabir, Debasis Dhal, Rajat Kumar Pal, and Goutam Saha.	Multiple Fault Identification and Diagnosis in Cross-Referencing Digital Microfluidic Biochips	Lecture Notes in Networks and Systems	SPRINGER		https://doi.org/10.1007/978-981-16-4294-4_11	APRIL
Md Ashifuddin Mondal	Md Ashifuddin mondal, Zeenat Rehena	Common Ticketing Service in Multimodal Transportation System	Proceedings of International Conference on Advanced Computing Applications	Springer		https://link.springer.com/chapter/10.1007/978-981-16-5207-3_19	August
Koushik Karmakar	Sohail Saif, Pratik Bhattacharjee, Koushik Karmakar, Ramesh Saha, Suparna Biswas	IoT-Based Secure Health Care: Challenges, Requirements and Case Study	Internet of Things Based Smart Healthcare	Springer, Singapore		https://link.springer.com/chapter/10.1007/978-981-19-1408-9_15	September
Koushik Karmakar	Aritri Chakraborti, Koushik Karmakar,	Different Sensors in Modern day	Computational Advancement in Communi	Springer, Singapore		https://link.springer.com/chapter/10.1007/978-	April

	Ananya Banerjee	Healthcare Service	cation, Circuits and Systems Proceedings of 3rd ICCACCS 2020			981-16-4035-3_14	
Koushik Karmakar	Koushik Karmakar, Sohail Saif, Suparna Biswas & Sarmistha Neogy	A Priority Based Routing Protocol to Improve Quality of Service (QoS) in Wireless Body Area Network for COVID and Diabetic Patients	Proceedings of the 3rd International Conference on Communication, Devices and Computing (ICCDC 2021) / Part of the book series: Lecture Notes in Electrical Engineering (LNEE, volume 851)	Springer		https://link.springer.com/chapter/10.1007/978-981-16-9154-6_18	
Koushik Karmakar	Koushik Karmakar, Sohail Saif, Suparna Biswas & Sarmistha Neogy	Application of Relay Nodes in WBAN-Based Smart Healthcare for Energy Conservation Explained with Case Studies	High Performance Computing and Networking: Select Proceedings of CHSN 2021/ Part of the book series: Lecture Notes in	Springer		https://link.springer.com/chapter/10.1007/978-981-16-9885-9_52	March

			Electrical Engineering (LNEE, volume 853)				
Dr Biswajit Halder	Debjani Chakraborty, Sandeep Choudhury, Sanjib Kumar Dutta, Biswajit Haldar	Identification of Tampering Image Using SIFT Descriptor	2021 Sixth International Conference on Image Information Processing (ICIIP)		2640-074X, 10.1109/ICIIP53038.2021.9702601	https://ieeexplore.ieee.org/document/9702601	
Ananya Banerjee	Ananya Banerjee, Aritri Chakraborti, Koushik Karmakar	Different Sensors in Modern day Healthcare Service	Computational Advancement in Communication, Circuits and Systems	Springer, Singapore		https://link.springer.com/chapter/10.1007/978-981-16-4035-3_14	October
Ananya Banerjee	Ananya Banerjee, DK Bhattacharya, Anilesh Dey	Effect of Cognitive Task on the Central Nervous System	Computational Advancement in Communication, Circuits and Systems	Springer, Singapore		https://link.springer.com/chapter/10.1007/978-981-16-4035-3_23	December
Shubhendu Banerjee	Shubhendu Banerjee, Sumit Kumar Singh, Avishek Chakraborty, Atanu Das, Rajib Bag	Diagnoses of melanoma lesion using YOLOv3	Computational Advancement in Communication, Circuits and Systems	Springer	October	https://link.springer.com/chapter/10.1007/978-981-16-4035-3_26	Jan

Mousumi Saha	Mousumi Saha, Debpuja Dhar, Tamasree Biswas	Impact of Atmospheric Features for COVID-19 Prediction	Computational Advancement in Communication, Circuits and Systems, Proceedings of 3rd ICCACCS 2020 (pp.195-201)	Springer		https://link.springer.com/chapter/10.1007/978-981-16-4035-3_17	Octobar
Dr. Subhram Das	Arijit Das, Tanisha Khan, Subhram Das, and D. K. Bhattacharya.	Proper Choice of a Machine Learning Algorithm for Breast Cancer Prediction.	Lecture Notes in Electrical Engineering, vol 786.	Springer, Singapore,	978-981-16-4035-3_1	https://doi.org/10.1007/978-981-16-4035-3_1	Oct
Dr. Subhram Das	Navoneel Moitra, Akanksha Singh, and Subhram Das,	Use of Convolutional Neural Network (CNN) to Detect Plant Disease.	Lecture Notes in Electrical Engineering, vol 786.	Springer, Singapore,	978-981-16-4035-3_5	https://doi.org/10.1007/978-981-16-4035-3_5	Oct
Dr. Subhram Das	Kumar Kalpadiptya Roy, IpsitaMazumder, Arijit Das, and Subhram Das	Detection of COVID-19 using deep transfer learning-based approach from X-ray and Computed Tomography(CT) images,	Lecture Notes in Electrical Engineering, vol 786.	Springer, Singapore,	978-981-16-4035-3_27	https://doi.org/10.1007/978-981-16-4035-3_27	Oct

| Debjani Chakraborty | Debjani Chakraborty; Sandeep Choudhury; Sanjib Kumar Dutta; Biswajit Haldar | Identification of Tampering Image Using SIFT Descriptor | 2021 Sixth International Conference on Image Information Processing (ICIIP) | IEEE | 10.1109/ICIIP53038.2021.9702601 | https://ieeexplore.ieee.org/document/9702601 | Jan |

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Sl. No.	TitleoftheBookPublication	DOI
1	Application of Signal Processing Tools andArtificialNeuralNetworkinDiagnosisofPowerSystemFaults	https://doi.org/10.1201/9780367431143
2	TransmissionCongestionManagement:Pricingand Locational Marginal Pricing in theDeregulatedPower System	ISBN-10 : 6139993377,ISBN-13:978-6139993376
1	SecurityofLoadFlowAnalysiswithPhoto voltaicEnergySources	https://doi.org/10.1007/978-981-16-4035-3_20
2	EvaluationofAzimuthAngleProfileforSolarPhotovoltaic System in Humid SubtropicalClimateof Varanasi City	https://doi.org/10.1007/978-981-16-4035-3_21
3	ContingencyAnalysisandRankingfora30BusSystem toMaintainItsStabilityandReliability	https://doi.org/10.1007/978-981-16-4035-3_15

CA

Title	ISSN/ISBN No./doi	Author Name
Brain Computer Interface: A Review	https://doi.org/10.1007/978-981-16-4035-3_3	Debrupa Pal

BSHU

Sl. No.	Name of the faculty	Title of the Paper	Name of the Journal	Citation Index	Whether Elsevier/Web of Science	Impact factor
1	Dr. Susmita Karan	Mining and Environmental Crisis	Book Chapter		Handbook on present environmental Challenges: An overview Book Rivers, Lucknow, India	978 93 5515 086 8
2	Dr. Susmita Karan	Illegal, Unreported and Unregulated Fishing and Environmental Crisis	Book Chapter		Handbook on present environmental Challenges: An overview Book Rivers, Lucknow, India	978 93 5515 086 8

3	SHARMISTHA BASU	OZONE LAYER DEPLETION:A BRIEF ANALYSIS ON THE CONSEQUENCES AND THE ALTERNATIVE MEASURES FOR PROTECTION	Book Chapter		Handbook on present environmental Challenges: An overview Book Rivers, Lucknow, India	978 93 5515 086 8
5	Dr. Sumit Nandi, Dr. Rupa Bhattacharyya	Waste plastic to biodiesel	Book Chapter		Handbook on present environmental Challenges: An overview Book Rivers, Lucknow, India	978 93 5515 086 8
6	Dr. Sumit Nandi, Dr. Sarbani Ganguly, Dr. Rupa Bhattacharyya	A Handbook on Engineering Chemistry Laboratory	Book		A Handbook on Engineering Chemistry Laboratory	978 93 89817 70 6
7	Dr. Nikhilesh Sil	Air Polution: Cause, Effects and Possible Solution	Book Chapter		Handbook on present environmental Challenges: An overview Book Rivers, Lucknow, India	978 93 5515 086 8
8	Dr. Nikhilesh Sil	Solid Waste Management: Problems and Solution by Using Microbes & Bacteria	Book Chapter		Handbook on present environmental Challenges: An overview Book Rivers, Lucknow, India	978 93 5515 086 8

Seminar / Workshop Attended

In the academic year 2020 – 2021, due to pandemic Narula Institute of Technology has organised multiple numbers of different types of online programmes like Workshops, Faculty Development Programmes (FDP), Short Term Training Programme (STTP), Short Term Course, Staff Development Programme (SDP), Hands on Session, Conference, Webinars, and Industrial Seminar. This year total 40 number of Workshops have been organised by Institute and collectively more than 1458 participants have taken active participation. 6 STTPs have also been arranged with average 351 numbers of participants were present. 6 numbers of FDPs have been organised by Institute where internal faculties from different department as well as faculty members from other colleges also taken active participation. Overall, 312 participants including many renowned delegates have made these FDPs successful. Narula Institute of Technology has also arranged 1 Hands on sessions. 1 SDPs have also been organised for staff members of the Institute. Moreover, many National and International renowned delegates made these programmes successful.

Type of program	Title	Organized by	Dates	No of participants
Workshop	Two Days Workshop on " Road Repairing and Maintenance"	Narula Intitute of Technology	15.07.2021 - 16.07.2021	38
	Online Workshop on Embedded Systems	Narula Intitute of Technology	21-06-2021 - 22-06-2021	35
	Two Days Workshop on " Drinking Water, Sanitary & Waste Management"	Narula Intitute of Technology	09.06.2021 - 10.06.2021	40
	Online Two-day workshop on "Fundamental of Rapid Prototyping"	Narula Intitute of Technology	21.05.2021 - 22.05.2021	52
	ONE DAYworkshop On "Nuclear Energy: The best alternative as clean affordable energy"	Narula Intitute of Technology	25.05.2021	22
	One day Workshop on "Crash course to innovation and startups"	Narula Intitute of Technology	30.04.2021	76
	ONE DAYworkshop On "Smart Technologies for Sustainable Development "	Narula Intitute of Technology	23.04.2021	25
	Online Workshop on "Applications of Machine Learning in Industries & Business"	Narula Intitute of Technology	44306	30

Online Two-day workshop on Autodesk Fusion 360	Narula Intitute of Technology	09.04.2021 - 10.04.2021	41
Online workshop on Multi Agent System	Narula Intitute of Technology	06.04.2021 - 07.04.2021	39
Online workshop on the industrial application of IoT (IIoT)	Narula Intitute of Technology	15-03-2021 - 16-03-2021	35
Workshop on Research and Development in Core sector	Narula Intitute of Technology	13.03.2021	20
Online Workshop on Recent Advancement in Thermo-Fluid in MechanicaL Engineering Aspect	Narula Intitute of Technology	26.02.2021 - 27.02.2021	50
Workshop on "Higher study opportunities in Abroad"	Narula Intitute of Technology	18.02.2021-20.02.2021	31
Two Days Workshop on " Concepts of Flood Shelter & Other Infrastructures "	Narula Intitute of Technology	18.02.2021 - 19.02.2021	38
Online workshop on Software Development Best Practices and Version Control with git	Narula Intitute of Technology	18.02.2021 - 19.02.2021	37
Workshop on "Development of Future Startup Based on Artificial Intelligence"	Narula Intitute of Technology	44245	30
Two days Online workshop on Machine Learning in Images	Narula Intitute of Technology	05.02.2021 - 06.02.2021	80
Workshop on "Latest insights of IT Industry"	Narula Intitute of Technology	20.01.2021-21.01.2021	25
Online Workshop on "Blockchain Technology"	Narula Intitute of Technology	06-01-2021 - 07-01-2021	35
FUTURE OF POWER & ENERGY SCENARIO AND ITS ENVIRONMENTAL ASPECTS"	Narula Intitute of Technology	24.01.2021	26
Online Two Days Workshop on "Solar Energy for Sustainble Development"	Narula Intitute of Technology	14.12.2020 - 15.12.2020	40
Online Two days' Workshop on "Database development, business intelligence and real-time"	Narula Intitute of Technology	05.12.2020 - 06.12.2020	38
Two Days Workshop on " Use of Recycled Waste Material in Road Construction"	Narula Intitute of Technology	26.11.2020 - 27.11.2020	35
Online workshop on "Embedded Systems and Robotics"	Narula Intitute of Technology	25.11.2020-27.11.2020	32
Online Workshop on "Recent Trends in Smart Materials : Research Aspects"	Narula Intitute of Technology	06.11.2020 - 07.11.2020	58

	3 day's workshop on "Role of Instrumentation Engineers in the field of Non-Destructive Testing"	Narula Intitute of Technology	8.10.2020-10.10.2020	25
	Two Days Workshop on " Embankment, Dam & River Protection Works"	Narula Intitute of Technology	22.09.2020 - 23.09.2020	35
	Online workshop on stable Matching Problem	Narula Intitute of Technology	07.10.2020 - 08.10.2020	35
	Online workshop on Cyber Security and Forensics	Narula Intitute of Technology	21.09.2020 - 22.09.2020	38
	Workshop on IPR & its Practices	Narula Intitute of Technology	44096	30
	Online Workshop on "Recent Advancement in Materials, Design and Manufacuring Technique"	Narula Intitute of Technology	18.09.2020 - 19.09.2020	54
	Workshop on Electric vehicles : opportunities, challenges, charging scenario in Indian perspective	Narula Intitute of Technology	08.09.2020 - 9.09.2020	35
	Two days Workshop on "Activity of Semiconductor Division, BEL-Bg"	Narula Intitute of Technology	03.09.2020 - 04.09.2020	32
	Online workshop on Wireless Body Area Network	Narula Intitute of Technology	25.08.2020 - 26.08.2020	36
	Online Workshop on "Developments in nonconventional machining for sustainable production"	Narula Intitute of Technology	20.08.2020 - 21.08.2020	62
	Two days Online Workshop on "Data Science and Industry Trends"	Narula Intitute of Technology	20.03.2021 - 21.03.2021	50
	Workshop on "Emerging Technologies in Industry 4.0"	Narula Intitute of Technology	17.08.2020 - 19.08.2020	27
	Online Workshop on "Machine Learning in Data Science"	Narula Intitute of Technology	13-08-2020 - 14-08-2020	35
	Online Workshop on Deep Learning	Narula Intitute of Technology	26-11-2020 - 27-11-2020	35
FDP	Online FDP on "Recent Trends in Semiconductor Devices, VLSI Circuits and Nano Technology" (RTSDVCNT-2021)	Narula Intitute of Technology	12.07.2021 - 17.07.2021	52
	FDP ON Modern Trends of Research in Electrical Engineering-Its Impact on Society and Future Aspects:	Narula Intitute of Technology	05.07.2021 - 09.07.2021	52
	Online FDP on New Trends in Machine Learning (NTML 2021)	Narula Intitute of Technology	22.03.2021 - 26.03.2021	64

	Online One Week FDP on "ANSYS Workbench"	Narula Intitute of Technology	11.01.2021 - 15.01.2021	52
	Two days FDP on "Wireless Transceiver IC"	Narula Intitute of Technology	18.08.2020 - 19.09.2020	29
	One Week FDP on "Recent Trends in Civil Engineering"	Narula Intitute of Technology	07.08.2020 - 11.08.2020	40
STTP	3 DAYS STTP on "IoT and its Application in Industry"	Narula Intitute of Technology	22.06.2021- 24.06.2021	31
	AICTE Sponsored Short Term Training Programme titled Data Science & Machine Learning (Phase III)	Narula Intitute of Technology	21.06.2021 - 25.06.2021	83
	AICTE Sponsored Short Term Training Programme titled Data Science & Machine Learning (Phase II)	Narula Intitute of Technology	07.06.2021 - 11.06.2021	94
	AICTE Sponsored Short Term Training Programme titled Data Science & Machine Learning (Phase I)	Narula Intitute of Technology	24.05.2021- 28.05.2021	98
	One Week STTP on "Hydrodynamics and Sediment Transport in Unsteady Flows"	Narula Intitute of Technology	19.04.2021 - 23.04.2021	40
	3 days sttp on Challenges and Opportunities of Renewable Energy	Narula Intitute of Technology	20.08.2020 - 22.08.2020	36
SDP	STAFF Development Program on "Digitization of Teaching Pedagogy"	Narula Intitute of Technology	22.03.2021 - 27.03.2021	50
Hands-on	Two Days Hands on Session on " Application of Q-GIS"	Narula Intitute of Technology	15.03.2021 - 16.03.2021	30

Faculty Orientation Programme

About The Programme

Narula Institute of Technology have organized Faculty Orientation Program for all the new recruits from 16th to 20thAugust, 2021. All the Faculty members coming from every department attended the programmeto achieve guidance over various aspects of teaching and learning from the experts. The primary objective of this Orientation Programme is to familiarize the participants with their roles and responsibilities towards various generic aspects of teaching, learning, instructional methodologies, assessment and evaluation techniques. The curriculum is segregated into three modules which are Pedagogy, Research, and Ethics in Profession.

16-08-2021: Day 1,which started with lectures on curriculum constituents, academic structure of NiT, course monitoring, MOOCs, flipped classroom paradigms, etc.

17-08-2021: Day 2 and it focused on Science and Engineering core. In this curriculum,NiT expert faculties guided the participants on preparing presentations and lectures on various courses across topics around the field of Physics, Mathematics, Electrical and Electronics Engineering.

18-08-2021: Day 3 in which the group was divided according to their respective departments and visits were arranged to each of the departments for closer interactions with faculty members. Lectures on departmental core teaching strategies were also included in the specified curriculum

19-08-2021: Day 4 where lab visits were organized to bring forward the different laboratories at NiT. These tours included Physics, Chemistry, central workshops, etc.

20-08-2021: Day 5 and the final day of the programme.Discussions included on this curriculum where focused on UG program, B. Tech. Project, faculty improvement, and how to engage the UG and PG students in academic and extracurricular activities. Faculty members were motivated in involving themselves in several activities that would guide them towards having a better and extensive understanding over the role as a Teacher. Following mentioned are some of the activities that can be beneficial for them:

- Teaching- learning methodology
- MOOCs on topics relevant to engineering education
- Training on how to generate new learning materials.
- Course on research methodologies
- Course on technical reading and writing

Objectives of the Programme

- To make the participants understand about the structure, functioning, governance, rules and regulations in Institutions of Higher Education and to orient them to become potential partners in institute building
- To enable the faculty in getting a deeper understanding of their roles and responsibilities in Higher Education and to impart essential professional skills, competencies and attitudes
- To enable the faculty to conceptualize the nuances of curriculum design and development in higher education at global standards.
- To train the participants in modern teaching methods and strategies
- To train the faculty on the use of ICT tools and integrating them in teaching and research
- To train the participants in methods of evaluation and assessment of diversified groups of students
- To provide research orientation to young faculty towards integrating research with pedagogy
- To develop practical knowledge in emotional balance of self and in student-counselling and mentoring
- To enable the faculty to generate new learning materials for enrichment of online open access platforms
- To provide knowledge about different models of leadership to the participants in order to enhance their academic leadership skills
- To enable the faculty to learn the principles of strategic planning and management.

Modules/Topics

1. General Principles

   - Welcome Talk – General Feature of Institute
   - Presentation on Academic Structure at NiT
   - Generic curriculum and its constituents
   - Learning evaluation through quizzes, exams, projects.
   - MOOCS, Flipped Classroom paradigms
   - Course monitoring mechanism at NiT
   - Teaching/Learning Management System (LMS)
   - Mentoring System

2. Basic Fundamental Subjects

   - Core Physics andMathematics – objectives, content, preparation, delivery, expectation
   - Need for simple experimentation in classroom teaching
   - Overcoming functional English deficiency
   - Introduction to Electronics Engineering
   - Introduction of Electrical Engineering

3. Departmental Core

   - Introduction to department – objectives, emphasis, course template, break-up of theory and labcomponent
   - Session on department core – major lab courses, including concept of lab lecture, visit to labs.

4. Autonomy Examination Process

   - Discussion on format of question paper.
   - Discussion on copy checking process.
   - Discussion on marks entry process.

5. R&D and Consultancy

   - Discussion on Faculty improvement - continued research
   - Critical Thinking + Ethics
   - Scope of Consultancy

Resource Persons

Sl No.	Name	Designation
1	Prof.Biman Mukherjee	Professor, Civil Engineering, NiT
2	Prof. B K Medya	Professor, Information Technology, NiT
3	Prof.Sumit Nandi	Professor, BS&HU, NiT
4	Dr.AnileshDey	Professor, Electronics & Communication Engineering, NiT

List of Registered Participants

Sl No.	Faculty Name	Designation	Department
1	AnirbanBasak	Assistant Professor	Computer Science and Engineering
2	Saubarna Dutta Chowdhury	Assistant Professor	Computer Science and Engineering
3	Samir Pramanick	Assistant Professor	Computer Science and Engineering
4	Moumita Ghosh	Assistant Professor	Information Technology
5	UdayPatra	Assistant Professor	Electrical Engineering
6	Poulami Ghosh	Assistant Professor	Civil Engineering
7	Debangshu Bose	Assistant Professor	Basic Science and Humanities
8	SatyakiMukhejee	Assistant Professor	Basic Science and Humanities
9	TarapadaGorai	Assistant Professor	Basic Science and Humanities
10	Poulomi Mukherjee	Assistant Professor	Basic Science and Humanities

Some Glimpses of the Event

Speakers of the session

About The Programme

Narula Institute of Technology have organized Faculty Orientation Program for all the new recruits from 21st to 25th February, 2022. All the Faculty members coming from every department attended the programme to achieve guidance over various aspects of teaching and learning from the experts. The primary objective of this Orientation Programme is to familiarize the participants with their roles and responsibilities towards various generic aspects of teaching, learning, instructional methodologies, assessment and evaluation techniques. The curriculum is segregated into three modules which are Pedagogy, Research, and Ethics in Profession.

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- To provide research orientation to young faculty towards integrating research with pedagogy
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   - Discussion on Faculty improvement - continued research
   - Critical Thinking + Ethics
   - Scope of Consultancy

Resource Persons

Sl No.	Name	Designation
1	Dr. Sourav Saha	Dean R&D, NiT
2	Dr. Subhram Das	Professor, Computer Science & Engineering, NiT
3	Prof. Sumit Nandi	Professor, BS&HU, NiT
4	Dr. Bansari Deb Majumdar	Professor of Electronics & Instrumentation Engineering , NiT

List of Registered Participants

Sl No.	Faculty Name	Designation	Department
1	Chetana Bhattacharya	Assistant Professor	Computer Science and Engineering
2	Swarnali Daw	Assistant Professor	Computer Science and Engineering
3	Arkadip Datta	Assistant Professor	Information Technology
4	Sayak Bose	Assistant Professor	Information Technology
5	Sayon Mazumder	Assistant Professor	Information Technology
6	Rituparna Kar	Assistant Professor	Information Technology
7	Abhisikta Sinha	Assistant Professor	Civil Engineering
8	SankarParai	Assistant Professor	Basic Science and Humanities
9	Subhankar Laga	Assistant Professor	Basic Science and Humanities
10	Soumi Sadhukhan	Assistant Professor	Basic Science and Humanities
11	Riya Saha	Assistant Professor	Basic Science and Humanities
12	Sayantan Bakshi	Assistant Professor	Basic Science and Humanities
13	Nivedita Khatua	Assistant Professor	Basic Science and Humanities
14	Samir Kumar Roy	Assistant Professor	Basic Science and Humanities

Some Glimpses of the Event
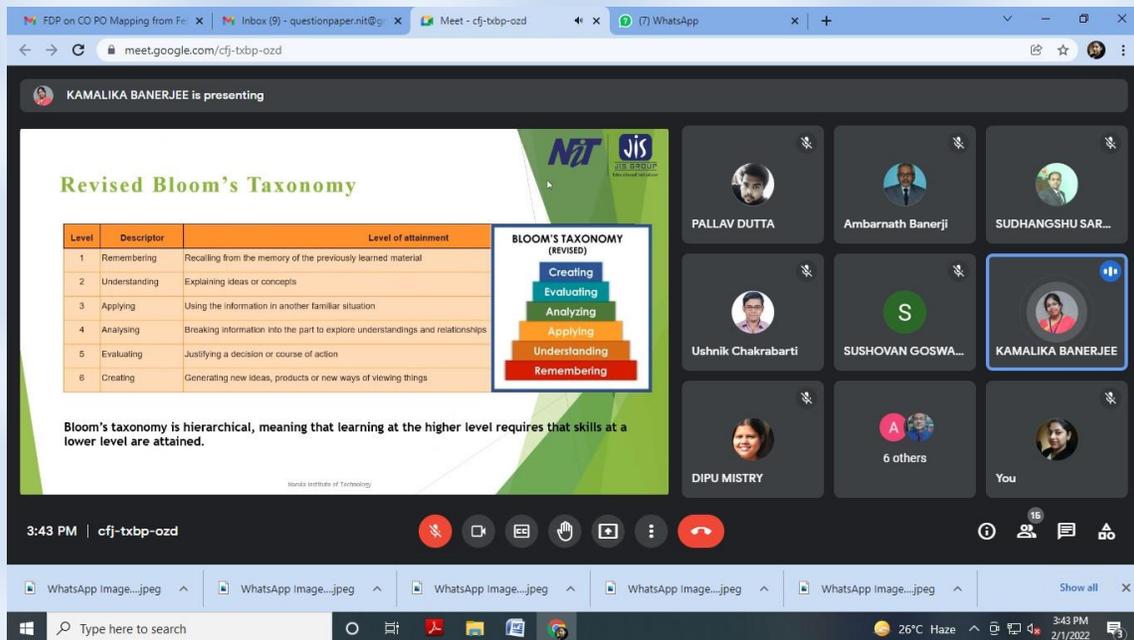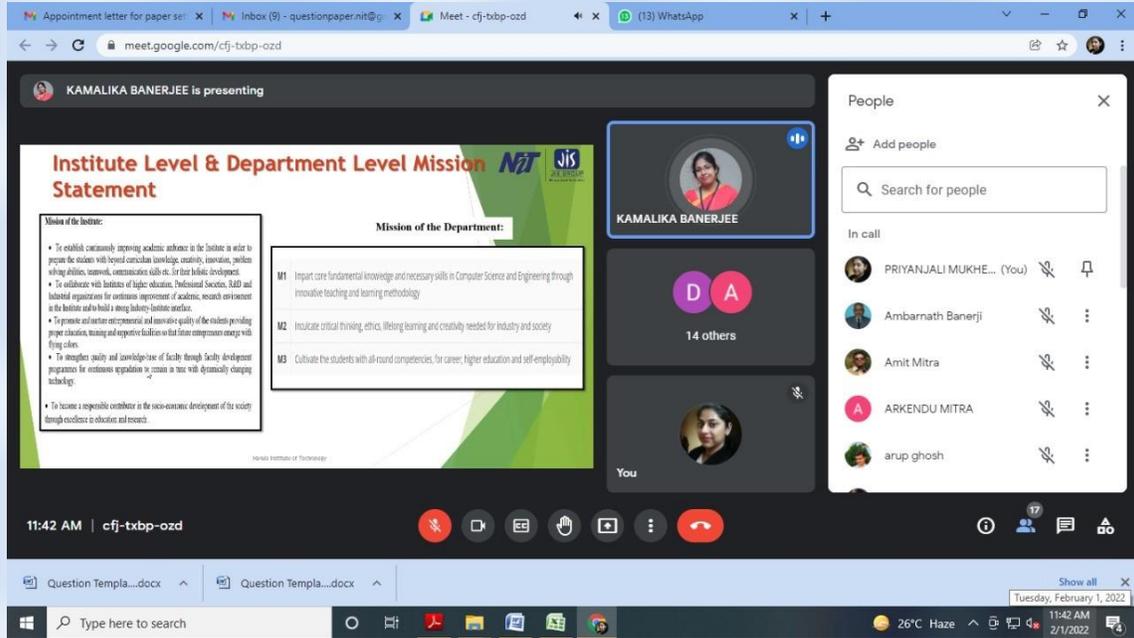
Speaker of the session

Faculty Professional Development Program:

Like every year in academic year 2021-2022, Narula Institute of Technology has organized multiple numbers of different types of programmes like Faculty development Programes (FDP), Workshops, Short Term Training Programme (STTP), Conferences, Webinars, Seminars. This year total 20 number of workshops have been organized by Institute and collectively more than 2000 participants have taken active participation. 1 STTP have also been arranged with average 50 umbers of participants were present. 9 numbers of FDPs have been organized by Institute where internal faculties from different department as well as faculty members from other colleges also taken active participation. Overall 500 Participants including many renowned delegates have made these FDPs successful.

2 National Conference and 1 International Conference have been organised in this academic year where many participants have taken active participation. Moreover, many national and international delegates made this programm successful. Moreover 4 seminars/webinar have been arranged and conducted successfully in this academic year. Also a refresher program was organized.

Types of Program	Title	Organized By	Dates	No of Participants
Workshop	Online Two days Workshop on "Production, Planning and Inventory "	Narula Institute of Technology	26.07.2021- 27.07.2021	52
	Online Two days Workshop on "Autonomous Vehicle Technology"	Narula Institute of Technology	27.08.2021- 28.08.2021	55
	Workshop on Supply Chain Management	Narula Institute of Technology	13.09.2021- 14.09.2021	60
	Two days Workshop on "Fundamental of BIOMECHANICS"	Narula Institute of Technology	12.11.2021- 13.11.2021	50

3 Days Workshop "Artificial Intelligence in Communication & Signal Processing"	Narula Institute of Technology	04-01-2022 - 06-01-2022	42
2 Days Workshop on "Python 3.4.3"	Narula Institute of Technology	15-11-2021 - 16-11-2021	46
2 Days Workshop on "MEMS System Design"	Narula Institute of Technology	14-09-2021 - 15-09-2021	34
Workshop on Python Programming and Digital Marketing	Narula Institute of Technology	19-01-2022	35
Workshop on Innovation and Opportunities in Digital Era	Narula Institute of Technology	25-02-2022	39
Workshop on ICT:Current Trends and Future Perspective	Narula Institute of Technology	26-11-2021	42
Workshop on Block ChainTechnology	Narula Institute of Technology	16-09-2021	42
Workshop on Social Network Analysis using Big Data in Cloud	Narula Institute of Technology	04-11-2021	42
Workshop on Data Mining and Data Warehousing	Narula Institute of Technology	15-09-2021	42
Workshop on Data Analytics using R	Narula Institute of Technology	30-08-2021	44
Workshop on Deep Learning and Neural Network using Python	Narula Institute of Technology	18-03-2022	38

	Workshop on Wireless Body Area Network	Narula Institute of Technology	17.08.2021	50
	Workshop on Journey Towards Deep Learning	Narula Institute of Technology	15.11.2021	46
	Two days Workshop on "Design Concept of RCC Sructures"	Narula Institute of Technology	14-09-2021 - 15-09-2021	40
	Two days Workshop on "Environmental Impact Due Rapid Infrastuctural Growth"	Narula Institute of Technology	15-11-2021 - 16-11-2021	30
	Two days workshop on "Curriculum Development and CO PO PSO Mapping"	Narula Institute of Technology	16-02-2022 - 17-02-2022	47
FDP	Online One Week FDP on "Hybrid Machining"	Narula Institute of Technology	17.01.2022- 21.01.2022	53
	FDP on "Curriculum Development and CO PO PSO mapping"	Narula Institute of Technology	07-02-2022 - 09-02-2022	35
	Online FDP on "Recent Trends in Semiconductor Devices, VLSI Circuits and Nano Technology", RTSDVCNT-2021	Narula Institute of Technology	12-07-2021 - 17-07-2021	53
	FDP on "Curriculum Development and CO PO PSO mapping"	Narula Institute of Technology	02-02-2022 - 04-02-2022	40
	FDP on "Challenges and Opportunities in Geotechnical Consultancy"	Narula Institute of Technology	10-01-2022 - 14-01-2022	40
	AICTE SPONSORED FDP on Digital Pedagogy	Narula Institute of Technology	05.07.2021- 16.07.2021	20

	AICTE Sponsored FDP on Digital Pedagogy	Narula Institute of Technology	16-07-2021	47
	AICTE Training And Learning (ATAL) Academy	Narula Institute of Technology	05-07-2021	40
	Modern Trends of Research in Electrical Engineering- Its impact on Society and future aspects		05.07.2021-10.07.2021	84
Conferences	4th National Conference on Science, Technology and Communication Skills (NCSTCS2K21)	Narula Institute of Technology	2021-09-24 to 2021-09-25	70
	International Conference 2K22 in association with Indian Society for the Promotion of English Language and Literature	Narula Institute of Technology	2022-05-27 to 2022-05-28	250
	5th National Conference on Science, Technology and Communication Skills (NCSTCS2K22)	Narula Institute of Technology	2022-09-09 to 2022-09-10	60
STTP	Online Short Term Training Program (STTP) on Data Science and Machine Learning	Narula Institute of Technology	21-25 July, 2021	35
Refresher Program	AICTE-ISTE Refreshers Program Brochure	Narula Institute of Technology	24-01-2022 - 31-01-2022	57
SEMINAR/ WEBINAR	Online webinar on "Demystifying Machine Learnig"	Narula Institute of Technology	11-07-2021	95
	Online webinar on "Blockchain Technology and its Applications"	Narula Institute of Technology	17-07-2021	50
	Seminar on Machine Learning Approach for Predictive Analytics	Narula Institute of Technology	27.01.2022	40

Seminar on Formal verification of machine learning and its application in cyber-physical systems	Narula Institute of Technology	08.03.2022	43
Seminar on Applications of AI in Flying Robots	Narula Institute of Technology	10.05.2022	49
Seminar on Spatio-Temporal DNN techniques for Video Analytics	Narula Institute of Technology	09.06.2022	44
Entrepreneurship and Atmanirbhar Bharat for Start up India	Narula Institute of Technology	17-07-2021	100
Innauguration of IEEE PES Students Chapter, Presentation and Exchange of Information with Startup Entrepreneur	Narula Institute of Technology	01.04.2022	100

Chapter 6 <u>**Student Centric Activities**</u>

<u>**INDUCTION PROGRAMME FOR 1ST YEAR STUDENTS**</u>

<u>SWAGATAM 2K21</u>

Every year Narula Institute of Technology conducts orientation programme for the newly admitted students to ensure their smooth intake, familiarise with the institution's facilities, norms and cultures and to inform students about the exciting world of technology and management. This year challenged by the pandemic, the three week Orientation Programme "**Swagatam 2K21**" for the first-year B.Tech and Diploma students was organised by individually all departments through the online mode from 4th October'2020 to 8th October'2021 and after that continued by the respective departments.

The students were welcomed by the Principal Prof. Dr. Maitreyi Ray Kanjilal, the Registrar Dr. Nidhi Singh and the Head of the respective Departments and they introduced the students with all the departmental faculty members. The students were explained about the curriculum detail, the syllabus and the examination system. A tour of the laboratories and college was conducted so that the students could get a glimpse of the campus. In-house faculties conducted a session name "Know your Subjects" where they were introduced briefly about the subjects as well as the online platforms through which the lectures would be delivered. During these tenure 3 week programme, intellectually engaging sessions were delivered by renowned academicians and industry personnel.

On the last day a cultural programme was organized through which the 1st year students were able to engage their passions, engage in exchange of thoughts with their seniors so that they continue to grow intellectually and emotionally. This entire 3weeklong Orientation Programme served as an ice breaking session and the 1st year student was ushered to get gradually introduced to the NiT college life to be cherished and made memorable in the upcoming years.

National Social Service (NSS)

The students of Narula Institute of Technology are involving in different types of social work such as

- To plant trees inside college campus and their home.
- Making Fast aid box
- Making different things using waste material- Waste management.
- Designing flex for laboratory.
- Writing moral & great people stories and making different posters regarding awareness of Anti-Smoking, Anti-Ragging, Global Warming, Anti-Dowry etc.
- Modeling of Thermal Power Plant.
- Surveying nearest slum area & preparing a report of their educational and social status:

➢ How many people of the area are primary educated or doing higher studies?
➢ How many of them are suffering from fatal & acute disease?
➢ Number of members in each family & so on.

➢ All these activities are done in a group. Every group has group leader & progression of work is informed by the group leader.

TREE PLANTATION

Narula Institute of Technology always aimed at producing globally responsible citizens. Thus on the occasion of 20th the Foundation Day of the College the NSS unit organized an extensive tree plantation programme within the campus following the strict COVID protocols. The Guest of Honour Mr.Dhrubajyoti Dey, Joint CP, Barrackpore Police Commissionerate participated in the tree plantation program.

BLOOD DONATION CAMP

Every year Blood Donation Camp is being organised by the NSS unit of Narula Institute of Technology to meet up the scarcity of human Blood in summer season. This year on the grand occasion of the 20th Foundation Day of the Institute a blood donation Camp has been organised. 102 donors including students, staffs and faculties of the institute donated Blood.

VISIT TO AN ORPHANAGE

The NSS Coordinators along with students visited the "Panihati Handicapped Welfare society" to meet the disabled children. They distributed sweets along with masks and sanitizers to the children. Though the time spent was just a few hours but it was taught us the lesson for a lifetime. The day turned out to be a happy day where all enjoyed a lot by sharing some good times together.

AWARENESS CAMPAIGN ON WATER CONSERVATION & RAIN WATER HARVESTING

In today's world, water scarcity has become one of the major issues which might turn out to be a hazard if not dealt with in time. The NSS Unit of Narula Institute of Technology organized a series of programs on water conservation and rain water harvesting program to raise awareness among the people of various localities Baguihati, Chakdaha, Birati, Barasat, Nabadwip, Khushiganj and Balurghat. The main goals of these programs were to aware people and train them to conserve water, minimize its wastage and ensure optimal usage of water resources.

VISIT TO OLD AGE HOME

A noble initiative was taken by the NSS unit, Narula Institute of Technology on 3rd November, 2021.
The NSS Coordinators with few students visited the "Ramakrishna Old Age home", Panihati and "Panihati Handicapped Welfare society" for disabled children. The students distributed sweets along with masks and sanitizers to all and their cheerful faces made the occasion more colourful to all of them.Though the time spent with them was just a few hours, however, it taught us the lesson for a lifetime. The day turned out to be fruitful and happy where all enjoyed a lot by sharing some good times together.

CLOTH & BLANKET DISTRIBUTION

"The biggest pleasure is to see others happy, and knowing that you've made a small contribution to that happiness".

Narulites celebrate Christmas each year on a different note. This year the students were on a mission at Kolkata Road. They were the Secret Santa for many needy ones. They distributed food packets, stationeries and winter garments to them.

While many of us enjoy the warmth of blankets in winter, there are many who are homeless shivering in the cold. To help alleviate their discomfort, our volunteers distributed hundreds of blankets to the homeless in Sodepur station area, Dakshineswar Temple area, Slum area near college. In Panihati Bengal Chemical area the students went in small groups and celebrated the upcoming NEW YEAR 2022 with sharing goodies and a cake cutting moment.

The visit had made us empathetic and compassionate for the under-privileged and the needy ones and they decided that they too would surely contribute to such worthy causes when they grow up. It was a life-changing experience as it was filled with many emotions and sentiments along with a bunch of valuable life-lessons.
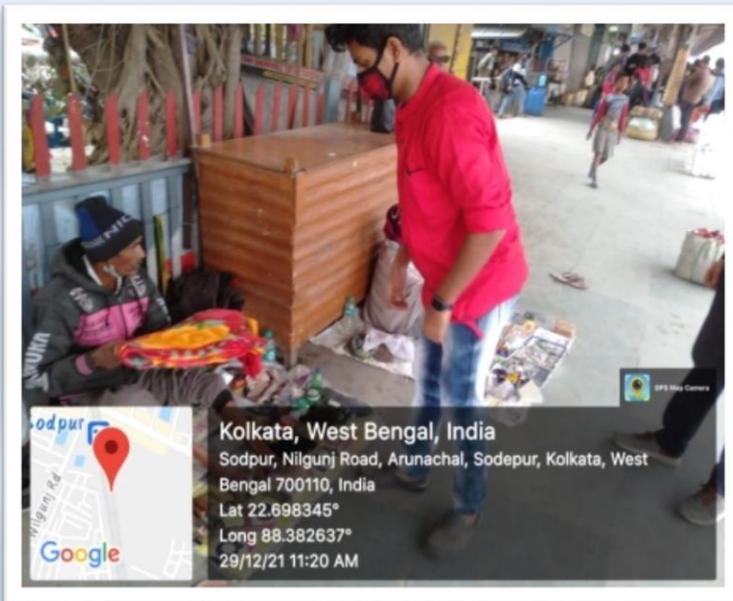
CELEBRATION OF NATIONAL YOUTH DAY

Date: 12th -13TH January, 2022
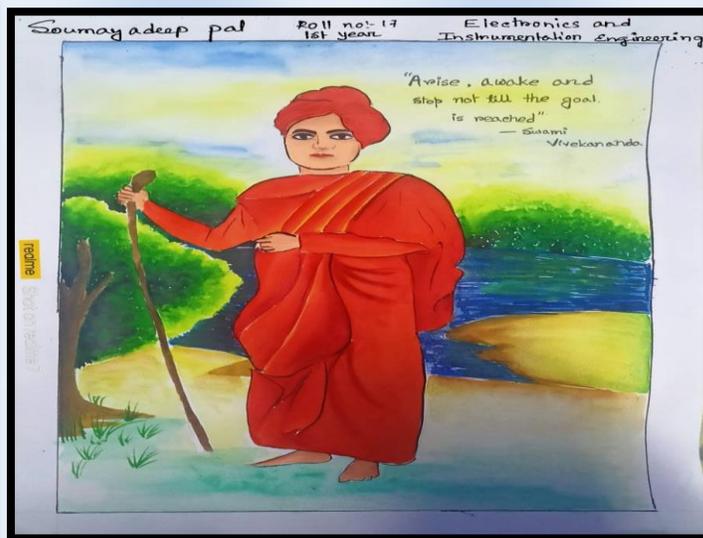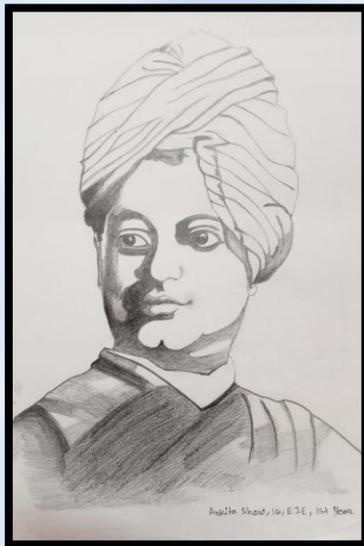
The Birth Anniversary of Swami Vivekananda is celebrated every year as National Youth Day. This year the 159th Birth Anniversary of Swami Vivekananda was celebrated on 12th & 13th January by the NSS unit of of Narula Institute of Technology.The students celebrated the day by making portraits, paintings, and PPTs on Swamiji.

The program started with paying homage to our beloved Chairperson, JIS Group - Late Sardarni Satnam Kaur followed by the main event. More than 168 students participated in the events virtually and showcased their creative side by portraying ideologies of Swamiji.

Celebration of World Earth Day

Date: 22nd April, 2022
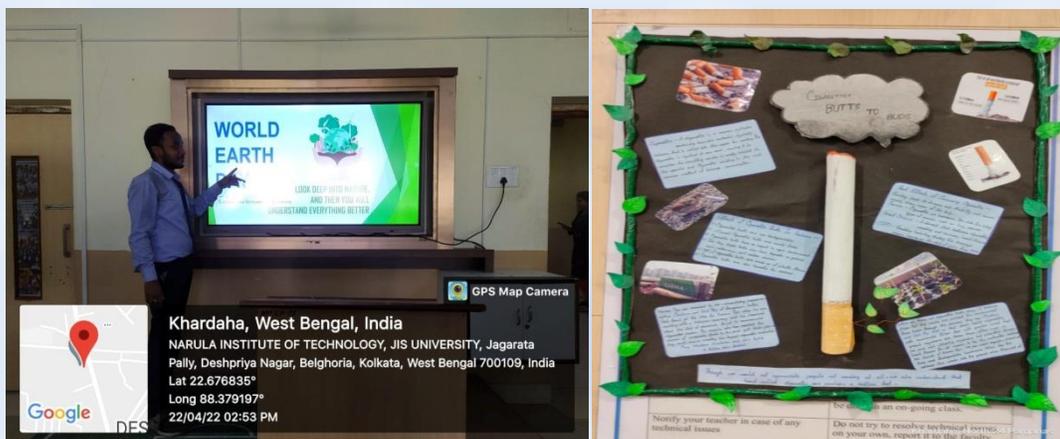
Every year, April 22 is celebrated as International Mother Earth Day to create awareness about the increasing pollution and environmental degradation which are leading us towards destruction. Initiated in 1970, the theme of Earth Day this year is 'Invest in our planet'. Prof. Dr.M. R. Kanjlal, Principal explained necessity of protection of mother earth and Dr. Nidhi Singh, Registrar mentioned various sustainable initiatives of NiT.

The NSS unit of Narula Institute of Technology organized International Mother Earth Day where students from all departments presented their ideas in the form of Powerpoint presentations on the theme of "Invest on our Planet". With the help of the public and government, innovation in the private sector is bringing the change we need to support our planet at a fast pace. It is time to build a sustainable future.

More than 70 Students and faculty members participated enthusiastically and the programme ended with a pledge taking ceremony "All our activities and initiatives will be on the path of protecting our mother earth".

Webinar on Stress Management

Date: 29th April, 2022
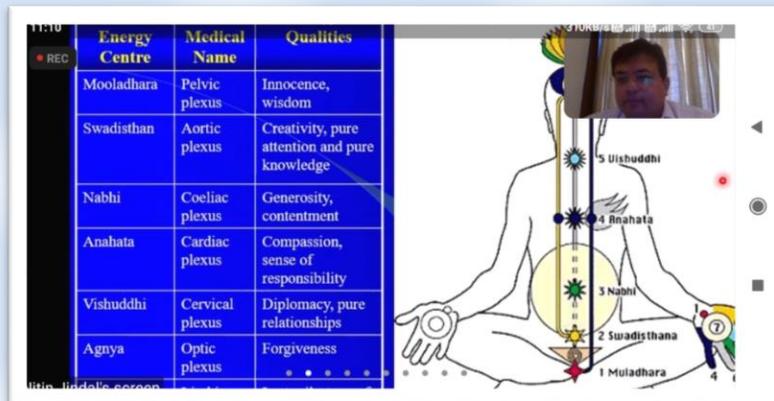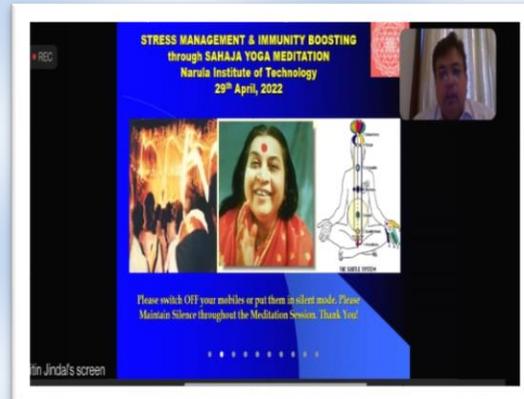
The NSS unit of Narula Institute of Technology has organized an awareness program on "Stress Management, Immunity Boosting and Balanced Life through Sahaja Yoga Meditation" on 29th April,2022 at 10.30AM through virtual mode. The objective was to empower participants to learn positive attitude, time management and acquire skills to control events beyond control. Prof. M.R.Kanilal, Principal in her address explained necessity of yoga in our daily life. Dr. Nidhi Singh mentioned that yoga can be reliever of stress in every walk of our life

The resource persons of the webinar was Mr. Nitin Jindal and Prof. Ravindra Gaonkar. They described sahaja yoga elaborately and explained the benefits of sahaja yoga in our daily life. He also took a practical session on Sahaja Yoga.

Approximately 100 students, faculty and staff members participated in the program with full enthusiasm. All have actively followed the instructions and practiced various asanas instructed by Mr. Nitin Jindal. It was indeed an engrossing experience for all our participants. The program ended with the formal vote of thanks by the NSS Coordinator & Assistant Professor-BS&HU, Dr. Nikhilesh Sil.

CELEBRATION OF WORLD ENVIRONMENT DAY

DATE: 6TH JUNE, 2022

World Environment Day is the opportunity for everyone to realize the responsibility to care for the Earth and to become the agents of change. Started on 5th June 1972 World Environment Day is celebrated each year on 5th June. Ban of plastics, planting of saplings, waste segregation, exploring renewable energy are some of the issues. This year the theme was 'Only one Earth'.

The NSS Unit and the Environment club of Narula Institute of Technology has celebrated the World Environment Day on 6th June 2022 at the institute.

Prof. (Dr.) M.R.Kanjilal, Principal, NIT in her brief address explained necessity of environment protection. More than 80 students and the faculty members of NSS brought seeds of Mango, Lichi and Jamun and they sowed the seeds in the college premises.In addition to this, students were inspired and motivated to plant more trees in and around their own surroundings contributing to a healthier and cleaner society which in turn will make a greener Earth.

Observance of World Day against Child labour

World day against child labour aims to focus attention on the global extent of Child labour and action and efforts to eliminate it. Since its' inception in 2002, each year this brings together government, employee, workers organisation and civil society together. The 2022 theme of the World Day against Child Labour calls for increased investment in social protection system as globally 160 million children still engaged as child labour.

The students of Narula Institute of Technology celebrated the World Day against Child Labour on 12th June, 2022 under the NSS unit. The International Labour Organization (ILO) started observing World Day against Child Labour in 2002 with an aim to highlight the plight of children who are the victims of child labour. The day serves as a catalyst to take forward the global movement against the practice. The theme for this year is "Universal Social Protection to End Child Labour".

The students from all department spread the awareness by preparing posters to stop child labour. They requested people to stop the cruel system as it deprives children from their childhood, their potential and their dignity and that is harmful to physical and mental health". Their main aim was to educate people and ask them to stop child labour, protect the right of children, educate and support them.They also tried to spread joy by distributing chocolates and snacks to the child laborers to bring smiles to their faces.

Observance of International Yoga Day

The International Day of Yoga is celebrated every year on 21st June to raise awareness worldwide about the benefits of Yoga in daily life since 2015. The Yoga day is celebrated at the largest day on northern hemisphere and every year it was celebrated with some theme. This year the theme is 'Yoga for Humanity'. Yoga is an invaluable gift of India's ancient tradition. It is not a mere exercise but to discover oneness with world and nature. Yoga brings balance between body, soul and mind. It helps us to understand the purpose of life and how to survive in the changing environment.

After the pandemic,the NSS unit organised the International Yoga Day in the institute premises on 21st June,2022. More than 100 students and Faculty members performed several Asanas, Deep breathing, Meditation and at the end, they chanted Onkar dhani. The NSS Unit has also organised yoga sessions in previous months in association with Sahaja Yoga Meditation center through virtual mode where students and faculty members participated whole-heartedly.
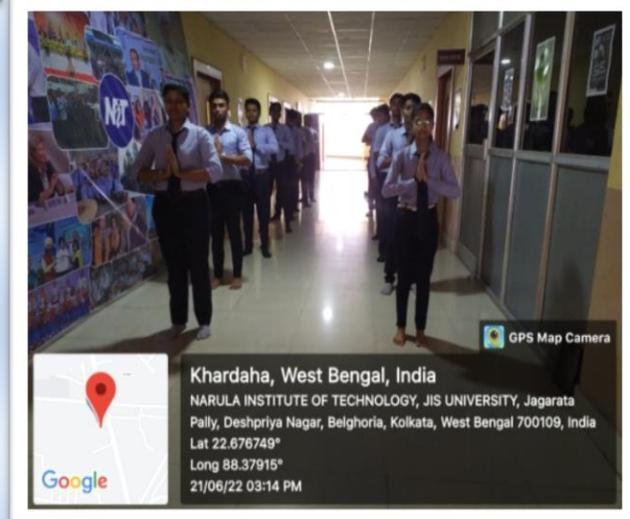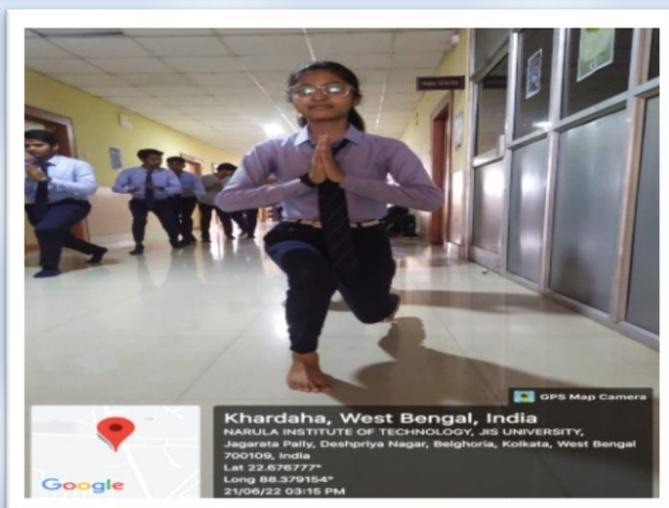
Skill Enhancement Activities

Student Centric Activities are a conglomeration of the development of Soft Skills, Language and Communication Skills, Life Skills, Trends in Technology Skills.

Soft skills focus on who people are, as opposed to what they are trained in. They serve to represent your approach to life and work meaning soft skills are interpersonal skills hardwired to an individual's personality, and they characterize how you interact with other people in the workplace. The training on Language and Communication Skills intends to create awareness of one's current presentation skills and practice & develop effective skills for presentation, understand the importance of communication types, developing effective verbal communication, importance of grooming and etiquette and cross-cultural communication. Learning and adapting new Life skills, we increase our understanding of the world around us and equip ourselves with the tools we need to live a more productive and fulfilling life, finding ways to cope with the challenges that life, inevitably, throws at us. Technology is rapidly changing the way we live and interact. It is changing the face of every field and every sector in the best way possible. Education technology can help to eliminate current barriers of providing quality education to all and will provide a chance to widen the imagination of the students and help them grasp better. The education sector and the entities such as students, teachers, management, parents, etc. will benefit a lot from the latest and upcoming trends in education technology.

Soft Skills

The purpose of soft skill training is to improve students' time management, decision-making, problem-solving, and interviewing abilities. Students that receive this type of training are prepared for various campus recruitment opportunities and competitive exams.The training and placement division organizes numerous value-added programs to give students possibilities for general improvement

Name of the capability enhancement program	Year	Name of the agencies/consultants	Objective
Soft Skill Training - MCA and M.Tech	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd,	Enhancement of Soft Skills
Soft Skill Training - IT 3rd year	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd,	Enhancement of Soft Skills
Soft Skill Training - EIE 3rd year	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd ,	Enhancement of Soft Skills
Soft Skill Training - EE 3rd year Sec B	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills

Soft Skill Training - EE 3rd year Sec A	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills
Soft Skill Training - ME 3rd year	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills
Soft Skill Training - CE 3rd year Sec B	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills
Soft Skill Training - CE 3rd year Sec A	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills
Soft Skill Training - ECE 3rd year Sec B	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills
Soft Skill Training - ECE 3rd year Sec A	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills
Soft Skill Training - CSE 3rd year Sec B	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills
Soft Skill Training -CSE 3rd year Sec A	2022	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of Soft Skills
Soft Skill Training - EIE 1st year	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training - EE 1st year Sec B	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training - EE 1st year Sec A	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training - ME 1st year	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training - CE 1st year	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training - ECE 1st year Sec B	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training - ECE 1st year Sec A	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills

Soft Skill Training - CSE 1st year Sec C	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training - CSE 1st year Sec B	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training -CSE 1st year Sec A	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training -CST 1st year	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training -CSBS 1st year	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Soft Skill Training -CSE AIML 1st year	2021	Mr. Tapas Mukherjee, Target Education	Enhancement of Soft Skills
Verbal, Non-Verbal Training EIE 2nd year	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training- ME 2nd year	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training- CE 2nd year	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training- IT 2nd year	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training - EE 2nd year Sec B	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training - EE 2nd year Sec A	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training- ECE 2nd year Sec B	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training- ECE 2nd year Sec A	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training- CSE 2nd year Sec C	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication

Verbal, Non-Verbal Training-CSE 2nd year Sec B	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-CSE 2nd year Sec A	2021	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication

Language and Communication Skill Enhancement Program

Language is regarded as both the greatest communication enabler and the greatest communication barrier. Students receive training so that they can be groomed in a variety of areas, such as the value of effective communication, different forms of communication, communication hurdles, presenting skills, etc. Distinguished academic and business leaders present workshops on these subjects to assist students in being ready for the demands of the workplace.

Name of the capability enhancement program	Year	Name of the agencies/consultants	Objective
Language and Communication Skills Training-CSE 1st year Sec C	2022	Ms Rajashi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training-CSE 1st year Sec B	2022	Ms Rajashi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training-CSE 1st year Sec A	2022	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training ECE 1st year Sec B	2022	Ms. Aparajita Paul, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training ECE 1st year Sec A	2022	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training IT 1st year	2022	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training ME 1st year	2022	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training CE 1st year	2022	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training EE 1st year	2022	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training EIE 1st year	2022	Ms. Aparajita Paul, Narula Institute of Technology	Understanding of language and proper communication skills

Language and Communication Skills Training -CST 1st year	2022	Ms. Aparajita Paul, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training -AIML 1st year	2022	Ms. Aparajita Paul, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training -CSBS 1st year	2022	Ms Rajashi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training -CSE 2nd year Sec C	2021	Ms Rajashi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training-CSE 2nd year Sec B	2021	Ms Rajashi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training-CSE 2nd year Sec A	2021	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training- ECE 2nd year Sec B	2021	Ms. Aparajita Paul, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training-ECE 2nd year Sec A	2021	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training- IT 2nd year	2021	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training-ME 2nd year	2021	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training- CE 2nd year	2021	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training-EE 2nd year	2021	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and Communication Skills Training- EIE 2nd year	2021	Ms. Aparajita Paul, Narula Institute of Technology	Understanding of language and proper communication skills

Language and Communication Skills Training

Life Skills

Life skills refers to a collection of fundamental abilities acquired through education and/or practical application that empowers both individuals and groups to successfully address concerns and problems that are frequently faced in daily life. It also refers to the abilities required to fully enjoy life. The phrase is generally used to refer to any abilities required to successfully navigate life's problems. They include initiative, critical thinking, self-awareness, self-control, resilience, and the capacity for problem-solving, decision-making, collaboration, and communication, as well as personal and social responsibility that promotes good citizenship for both flourishing and employable individuals and healthy societies. Institute arranges such types of programs on regular basis.

Name of the capability enhancement program	Year	Name of the agencies/consultants	Objective
Awareness Program on Environment Day	2022	Dr. Nihilesh Sil, Assistant Professor, Narula Institute of Technology	Awareness about the environment
International Yoga Day	2022	Dr. Nihilesh Sil, Assistant Professor, Narula Institute of Technology	Enhancing physical and mental health
Webinar on Recycle of Waste Water- Key to Sustainable Water Management	2022	Dr. Ashim Kumar Bhattacharjee, Principal Technology Investor	Awareness creation about sustainable water
Stress Management and Immunity Boosting through Sahaja Yoga and Meditation	2022	Mr Nitin Jindal, Business Development and Marketing	Knowledge about dealing with stress through yoga
Kuari Pass Trek, The Grand Himalayan Spectacle	2022	Dr. Subhram Das, HOD, CSE Department, Narula Institute of Technology	Enhancing physical and mental health
Winsome 2022- Visit to Sex Workers for creating awareness of menstrual hygiene	2022	Ms. Sharmistha Basu, Assistant Professor, BS & HU Department, Narula Institute of Technology	Awareness creation about menstrual hygiene
Breast Cancer Awareness Programme	2022	Dr. Rajesh Jindal,MD, Director Medella Cancer Cure Centre	Imparting knowledge about breast cancer
Webinar on Pollution Control- Order of the Day	2021	Prof. (Dr.) Srimanta Pramanik, Sr. Principal Scientist, National Environmental Engineering	Awareness about ways of controlling pollution

		Research Institute (NEERI)	
Webinar on Women Health and Hygiene	2021	Ms. Ankita Sukhwal, CSR Executive, Unicharm India	Imparting knowledge about mental health
Digitization of Healthcare during COVID-19 Pandemic and Beyond	2021	Prof (Dr.) Sharmin Praveen, Dept of Health Informatics, Bangladesh University	Knowledge about Healthcare during pandemic
Mass Vaccination drive (2nd dose)	2021	CMRI Kolkata	Free of cost vaccination for all
Blood donation Camp	2021	NSS Unit, Narula Institute of Technology	Spreading awareness about importance of blood donation
Health and Wellness with Yoga	2021	Ms. Madhu Goyel, Faculty Art of Living	Enhancing physical and mental health
Cancer Awareness Week	2021	Dr Nikhilesh Sil, Narula Institute of Technology	Spreading awareness for cancer
Mass Vaccination drive (1st dose)	2021	CMRI Kolkata	Free of cost vaccination for all

Trends in Technology

Regular seminars and workshops are held to enhance students' understanding of current trends in manufacturing methods in business. These programmes aid in producing graduates who are prepared for the workplace. Additionally, industrial visits are made to expose students to the realities of the workplace. They give students a great chance to learn everything there is to know about business operations.

Name of the capability enhancement program	Year	Name of the agencies/consultants	Objective
Seminar on Future Aspects of Engineering and Technology	2022	Dr Bishaljit Paul, HOD, EE Department, Narula Institute of Technology	Awareness of Future Aspects of Engineering and Technology
Workshop on Prototype/Process Design and Development-Prototyping	2022	Mr. Ishan Bajpai. CEO MELT, Kolkata	Knowledge gain about development protyping
Workshop on Intellectual Propery Rights and IP Management for Startup	2022	Mr. Samparti Basant, Managing Partner, Panasian IP Services	Knowledge gain about Intellectual Propery Rights
Industrial Visit to Euphoria GenX, Group I	2022	Ms. Rupa Saha, HOD, CA Department, Narula Institute of Technology	Industrial Exposure about software development process
Industrial Visit to Euphoria GenX, Group II	2022	Ms. Rupa Saha, HOD, CA Department, Narula Institute of Technology	Industrial Exposure about software development process
Workshop on Business Model Canvas	2022	Mr. Atanu Roy Chowdhury, Founder, Capsule Labs	Knowledge gain about business model canvas
Industrial visit to MSME Tool Room and Training Cente	2022	Dr. Sandhya Pattanayak, Associate Professor, ECE Department, Narula Institute of Technology	Industrial Exposure about MSME tool room
Industrial Visit to Incubation Centre, NASSCOM	2022	Dr Sandhya Pattanayak, Convenor, MHRD Cell, Narula Institute of Technology	Industrial Exposure about incubation centre

Robotics Workshop	2022	Dr Bansari Deb Majumdar, HOD, EIE Department, Narula Institute of Technology	To obtain knowledge about the robotics workshop
Industrial Visit to Kolaghat Thermal Power Station	2022	Dr Bansari Deb Majumdar, HOD, EIE Department, Narula Institute of Technology	Knowledge gain about working of a thermal power station
Two weeks Industrial Camp on Why to Built your expertise in Core Engineering	2022	Dr Bansari Deb Majumdar, Convenor and HOD, EIE Department, Narula Institute of Technology	Knowledge gain about the latest trend in technology
Innovation Development, Technology Readiness Level (TRL), Commercialization and Technology Transfer	2022	Mr. Sanket Sarkar, Founder and CEO of ZERON	Knowledge gain about Innovation Development, Technology Readiness Level
Webinar on Achieving Problem Solution Fit and Product Market Fit	2022	Mr. Tapas Piplai, CEO, Capability Enhancement Center	Knowledge gain about Achieving Problem Solution and Product Market Fit
Virtual Industry Visit, Steel Authority of India Ltd, Bokaro Steel Plant	2022	Mr Rakesh Kumar, Construction Manager, L & T Ltd	Knowledge gain working of Steel Authority of India Ltd
Design Thinking, Critical Thinking and Innovation Design	2022	Dr. Arijit Banerjee, Director Ramaesis RPL Perfect	Knowledge gain about design thinking, critical thinking and innovation design
Fostering Creativity and Innovation in Science and Technology	2022	Prof Dr. Alok Misra, Indian Institute of Science, Bangalore	Creating interest towards innovation in science and Technology
Industrial Visit at Mukesh Hyundai Group II	2021	Dr. Bikash Panja, HOD ME Department, Narula Institute of Technology	Knowledge gain about manufacturing process
Industrial Visit at Mukesh Hyundai Group I	2021	Dr. Bikash Panja, HOD ME Department, Narula Institute of Technology	Knowledge gain about manufacturing process
AICTE Sponsored Study Tour - ATAL Tunnel, Rohtang, Himachal Pradesh	2021	Prof (Dr.) Biman Mukherjee, CE Department, Narula Institute of Technology	To study different features of Tunnel
Hands on Workshop on Machine Learning with Python	2021	Mr. Arnab Mandal, Trainer of Sikharthy Infotecth Pvt Ltd	Knowledge gain about machine learning with Python
4th National Conference on Science, Technology and Communication Skills (NCSTCS 2K21)	2021	Dr. Sumit Nandi, Convenor and HOD, BS & HU Department, Narula Institute of Technology	Knowledge gain about science and technology

One day Virtual International Workshop on Data Science and Machine Learning Essentials	2021	Prof. Ashish Ghosh, Indian Statistical Institute	Knowledge enhancement about Data Science and Machine Learning
Demystifying Machine Learning	2021	Dr. Siddhartha Roy, Assistant Professor, Heritage College, Kolkata	Knowledge gain about basics of machine learning

Chapter 7   **Training and Placement**

Career Counselling Programs during 2021-2022

With a right to the best education available, and a wide range of jobs open to them, the students of the Institute need relevant and mature assistance in making the judicious occupational choice. The details of such programmes in this year are as follows.

Training on Aptitude & Verbal & Non Verbal Reasoning Test

To develop the logical reasoning capability and aptitude solving skills of a student, the institute conducts rigorous Training on Aptitude, verbal and non-verbal reasoning classes, and Mock tests from second year to final year. In the year 2021-2022, the resource person for this program was Mr.Tapas Mukherjee. He is a renowned national level trainer, currently associated with Constellation Training & Placement Services.

PLACEMENT RECORD FOR OUT GOING BATCH

Sl No	Company Name	Date of Interview	ECE	CSE	IT	EEE	CE	EIE	ME	MCA	M.Tech-CS	M.Tech-ECE	M.Tech-EE	M.Tech-CE	Total Placed
															Placement Status for 2021 Batch
1	Persistent	04.09.2020	NE	6	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	6
2	Capgemini	16.09.2020	19	26	6	6	0	1	3	0	NE	NE	NE	NE	61
3	Hexaware	18.09.2020	1	1	1	NE	NE	0	NE	NE	NE	NE	NE	NE	3
4	TCS(Digital & Ninja)		15	34	7	11	0	2	1	0	NE	NE	NE	NE	70
5	Nagarro Software	07.10.2020	1	3	0	NE	NE	NE	NE	0	0	NE	NE	NE	4
6	Accenture	18.10.2020	21	35	3	4	0	3	1	1	NE	NE	NE	NE	68
7	CTS	18.10.2020	17	29	4	9	0	3	3	0	NE	NE	NE	NE	65
8	Infosys		0	1	2	0	0	0	0	0	NE	NE	NE	NE	3
9	Innoraft Solution	07.10.2020	1	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1

No	Company	Date													
10	White Hat Jr	10.10.2020	1	0	0	0	0	0	0	0	NE	NE	NE	NE	1
11	Netasia		1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1
12	LIC		NE	NE	NE	NE	NE	NE	NE	1	NE	NE	NE	NE	1
13	Knouldus	28.11.2020	1	2	0	0	NE	1	NE	0	0	NE	NE	NE	4
14	Anza Services	30.11.2020	NE	NE	NE	NE	0	NE	NE	NE	NE	NE	NE	NE	0
15	Amdocs	06.12.2020	5	0	0	NE	NE	NE	NE	0	NE	NE	NE	NE	5
16	Xento Systems	08.12.2020	NE	0	0	NE	NE	NE	NE		NE	NE	NE	NE	0
17	Repos Energy India	16.12.2020	NE	NE	NE	0	NE	NE	1	NE	NE	NE	NE	NE	1
18	AO Smith	17.12.2020	NE	NE	NE	NE	NE	NE	1	NE	NE	NE	NE	NE	1
19	Zycus	18.12.2020	0	0	0	0	0	0	0	0	0	NE	NE	NE	0
20	Manikaran Power	22.12.2020	NE	NE	NE	2	NE	NE	NE	NE	NE	NE	NE	NE	2
21	XL Dynamics	07.01.2021	0	0	0	0	0	0	0	NE	NE	NE	NE	NE	0
22	Pinnacle Infotech	08.01.2021	NE	NE	NE	5	7	NE	1	NE	NE	NE	NE	NE	13
23	ISC Software	08.01.2021	NE	1	0	NE	NE	NE	NE		NE	NE	NE	NE	1

24	Paapri Business Technology	09.01.2021	NE	2		NE	NE	NE	NE	NE	NE	NE	NE	NE	2
25	Nerdy Turtelz	27.01.2021	NE	0	0	NE	0	NE	0	1	0	NE	NE	NE	1
26	Elphill	31.01.2021	0	0	0	NE	NE	NE	NE	0	NE	NE	NE	NE	0
27	Cvent	02.02.2021	0	0	0	0	0	0	NE	0	0	0	0	0	0
28	ARC Documents	03.02.2021	NE	4	1	0	NE	1	NE	NE	NE	NE	NE	NE	6
29	High Tech Next	08.02.2021	NE	NE	NE	NE	NE	NE	1	NE	NE	NE	NE	NE	1
30	Blue Couch	09.02.2021	2	1	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	3
31	Chegg India	10.02.2021	3	12	5	2	0	0	2	NE	NE	NE	NE	NE	24
32	Archetive Solutions	12.03.2021	NE	NE	0	0	1	NE	NE	NE	NE	NE	NE	NE	1
33	Cue Logic	15.03.2021	NE	3	0	NE	NE	NE	NE	0	0	0	NE	NE	3
34	Maventic	18.02.2021	0	0	0	0	0	0	0	0	NE	NE	NE	NE	0
35	Techno Exponent	19.02.2021	NE	1	0	NE	NE	NE	NE	0	NE	NE	NE	NE	1
36	Tirumala Seven Hills	19.02.2021		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
37	Unified Infotech	22.02.2021	NE	0	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	1

No	Name	Date													
38	Mongia Green	22.02.2021	NE	0	0	NE	NE	NE	NE	0	NE	NE	NE	NE	0
39	Codezin	23.02.2021	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Paperlink Software		2	1	0	1	NE	NE	NE	NE	NE	NE	NE	NE	4
41	Zucol	24.02.2021	NE	NE	NE	NE	0	NE	0	NE	NE	NE	NE	NE	0
42	Planate spark	26.02.2021	2	0	0	0	0	1	0	NE	NE	NE	NE	NE	3
43	Experis IT	03.03.2021	NE	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
44	TCG Digital	04.03.201	0	1	0	0	0	0	0	NE	NE	NE	NE	NE	1
45	E- Clinical	08.03.2021	0	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
46	Hansa Solution	08.03.2021	NE	0	0	NE	NE	NE	NE	0	NE	NE	NE	NE	0
47	Toujous Peritus	10.03.2021	NE	NE	NE	12	11	2	5	NE	NE	NE	NE	NE	30
48	Byjus	11.03.2021	6	4	1	6	0	3	1	0	NE	NE	NE	NE	21
49	Persistent	14.03.2021	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	5
50	Technosolis	15.03.2021	NE	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1
51	ICICI Prudential	20.03.2021	0	0	0	0	0	0	0	NE	NE	NE	NE	NE	

#	Name	Date													Total
52	Idiosys	19.03.2021	0	0	1	0	0	0	0	1	NE	NE	NE	NE	2
53	Embee Software	03.04.2021	NE	2	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	2
54	CBNITS	06.04.2021	2	1	0	NE	NE	NE	NE	0	NE	NE	NE	NE	3
55	Pulsar Rubber	09.04.2021	NE	NE	NE	NE	NE	NE	NE	1	NE	NE	NE	NE	1
56	Bitwise	11.04.2021	0	0	0	0	0	0	0	0		NE	NE	NE	0
57	Wekart	12.04.2021	NE	0	0	NE	NE	NE	NE	0	NE	NE	NE	NE	0
58	HCL Technoligies	16.04.2021	0	0	0	0	0	0	0	0	NE	NE	NE	NE	0
59	CRM Next	20.04.2021	2	1	2	0	0	0	0	0	0	0	0	0	5
60	Huawai	20.04.2021	9	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	9
61	Salasar InSurance	27.04.2021	NE	NE	NE	NE	NE	NE	NE	0	NE	NE	NE	NE	0
62	New Vision Software	27..04.2021	NE	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
63	Wipro DOP	27.04.2021	0	0	0	0	0	0	0	0	NE	NE	NE	NE	0
64	Senrysa Technologies	27.04.2021	NE	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
65	Indusnet Technologies	03.05.2021	0	0	0	NE	NE	NE	NE	0	NE	NE	NE	NE	0

66	Wipro		1	5	1	0	0	0	0	0	NE	NE	NE	NE	7
67	Cloud kaptan	06.05.2021		0	0	0	0	0	0	0	NE	NE	NE	NE	0
68	Artech		1	0	0	0	0	0	0	0	NE	NE	NE	NE	1
69	Bombay Coated	12.05.2021	NE	NE	NE	NE	NE	NE	0	NE	NE	NE	NE	NE	0
70	KEC International	17.05.2021	NE	NE	NE	1	1	NE	NE	NE	NE	NE	NE	NE	2
71	E-dominer		0	0	0	0	0	0	0	0	NE	NE	NE	NE	0
72	Inceptrial		6	3	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	10
73	Yardi Software	31.05.2021	0	1	1	0	0	0	0	0	NE	NE	NE	NE	2
74	Si Five	01.06.2021	0	0	0	0	0	0	0	0	NE	NE	NE	NE	0
75	Mindtree		1	1	1	1	NE	NE	NE	NE	NE	NE	NE	NE	4
76	Tech Mahindra	22.06.2021	1	0	0	1	0	0	0	NE	NE	NE	NE	NE	2
77	Infogain	21.06.2021	0	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0
78	Stella blue Interactive	20.05.2021	NE	1	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1
79	Vedantu	23.06.2021	NE	NE	NE	NE	NE	NE	1	NE	NE	NE	NE	NE	1

80	ANG	07.07.2021	NE	NE	NE	4	4	NE	NE	NE	NE	NE	NE	NE	8
81	Huron	09.07.2021	NE	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1
82	Lido	06.07.2021	1	0	0	0	0	0	0	NE	NE	NE	NE	NE	1
83	Mphasis		NE	1	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1
84	Synpulse	03.07.2021	NE	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1
85	Maharastra Knowledge corp. Ltd.		NE	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1
86	British Telecom	16.07.2021	0	1	1	0	NE	1	NE	NE	NE	NE	NE	NE	3
87	ITC Infotech	24.07.2021	4	2	2		NE	NE	NE	NE	NE	NE	NE	NE	8
88	Integer Telecom	27.07.2021	NE	NE	NE	NE	2	NE	0	NE	NE	NE	NE	NE	2
89	ACC	10.08.2021	NE	NE	NE	NE	3	NE	NE	NE	NE	NE	NE	NE	3
90	Tecknowledge	22.10.2021	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	0
91	Vodafone Idea	27.10.2021	1	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1

			ECE	CSE	IT	EE	CE	EIE	ME	MCA	M.Tech-CS	M.Tech-ECE	M.Tech-EE	M.Tech-CE	Total Placed
	TOTAL Number of Offers		**132**	**190**	**41**	**65**	**29**	**18**	**22**	**4**	**0**	**0**	**0**	**0**	**501**

	Placement Status for 2022 Batch (B.Tech, M.Tech & MCA) On going…														
Sl No	Company Name	Date of Interview	ECE	CSE	IT	EE	CE	EIE	ME	MCA	M.Tech-CS	M.Tech-ECE	M.Tech-EE	M.Tech-CE	Total Placed	Salary Lacs / Annum
1	A B Polypacks Pvt. Ltd.	12.07.2021	NE	NE	NE	NE	NE	NE	1	NE	NE	NE	NE	NE	1	1.20 LPA
2	High Radius Technologies Pvt. Ltd.	30.07.2021	4	15	5	5	0	1	4	0	NE	NE	NE	NE	34	7.00 LPA
3	Capgemini	27.08.2021	26	36	14	9	0	2	0	3	NE	NE	NE	NE	90	4.00 LPA & 7.50 LPA
4	Persistent Systems Ltd.	27.08.2021	10	14	3	NE	NE	NE	NE	NE	NE	NE	NE	NE	27	4.71LPA,7.50LPA & 9.00 LPA

5	Cuelogic Technologies Pvt. Ltd.	30.08.2021	NE	5	0	NE	NE	NE	NE		NE	NE	NE	NE	5	3.50 LPA
6	SAP Labs	09.08.2021	0	0	0	0	0	0	0	0	NE	NE	NE	NE	0	4.20 LPA
7	Cognizant Technology Solutions	04.09.2021	63	55	18	27	5	10	5	12	1	2	0	0	198	4.50 LPA & 7.50 LPA
8	Accenture	12.09.2021	20	31	13	4	1	5	0	3	1	1	0	0	79	4.50 LPA
9	Daasault Systems	16.09.2021	NE	NE	NE	NE	NE	NE	0	NE	NE	NE	NE	NE	0	7.50 LPA
10	Blueconch	24.09.2021	2	1	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	3	4.50 LPA
11	IBM	27.09.2021	12	15	5	1	NE	1	NE	4	1	0	0	NE	39	4.50 LPA
12	Wipro	27.09.2021	54	54	17	20	2	7	3	NE	NE	1	NE	NE	158	3.50 LPA
13	Hexaware	29.09.2021	8	3	3	NE	NE	2	NE	0	NE	NE	NE	NE	16	3.50 LPA
14	TCG Digital	27.09.2021	2	0	0	0	0	0	0	NE	NE	NE	NE	NE	2	3.36 LPA
15	Tech mahindra	02.10.2021	3	4	1	0	0	0	0	0	NE	NE	NE	NE	8	3.25 LPA
16	TCS	15.09.2021	17	14	4	3	0	2	0	2	0	0	0	0	42	3.36 & 7.00 LPA
17	IBS	29.09.2021	0	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0	
18	Optum	08.10.2021	1	0	0	0	NE	0	NE	1	NE	NE	NE	NE	2	5.15 LPA
19	Birlasoft	09.10.2021	0	0	1	0	NE	0	NE	0	0	NE	NE	NE	0	3.60 LPA

20	infogain	18.10.2021	NE	1	1	NE	NE	NE	NE	2	NE	NE	NE	NE	4	4.00 LPA
21	Nagarro	22.10.2021	0	0	0	NE	NE	NE	NE	2	0	NE	NE	NE	2	4.50 LPA & 6.00 LPA
22	J.K.Tech	29.10.2021	NE	NE	NE	NE	NE	NE	NE	0	NE	NE	NE	NE	0	4.00 LPA
23	Kinglong	02.11.2021	NE	NE	NE	NE	3	NE	0	NE	NE	NE	NE	NE	3	2.70 LPA
24	Virtusa	03.11.2021	0	1	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1	6.50 LPA
25	Hasandin	09.11.2021	0	0	0	0	0	0	0	0	0	0	0	0	0	8.10 LPA
26	Indusnet Technology	09.11.2021	0	1	0	NE	NE	NE	NE	0	0	NE	NE	NE	1	4.70 LPA
27	Mantralabs	11.11.2021	0	1	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1	4.00 LPA
28	Unified Infotech	16.11.2021	0	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0	3.50 LPA
29	Zensar Technology	20.11.2021	0	0	0	0	NE	0	NE	NE	NE	NE	NE	NE	0	4.00LPA
30	Alumnus	20.11.2021	0	0	0	NE	NE	NE	NE	0	0	0	NE	NE	0	4.00 LPA
31	Exavalu	21.11.2021	NE	NE	NE	NE	NE	NE	NE	1	NE	NE	NE	NE	1	5.00 LPA
32	Yash Technology	22.11.2021	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0	6.00 LPA
33	Byjus	25.11.2021	2	2	0	2	4	0	0	1	NE	NE	NE	NE	11	10.00 LPA

34	Maventic	26.11.2021	1	0	0	NE	NE	NE	NE	1	0	NE	NE	NE	2	4.00 LPA
35	Ericssion	29.11.2021	8	3	2	7	NE	3	NE	NE	NE	NE	NE	NE	23	4.50 LPA
36	HCL	01.11.2021	0	1	0	0	0	0	0	NE	NE	NE	NE	NE	1	
37	Manikaran Power	01.12.2021	1	NE	NE	1	NE	NE	NE	NE	NE	NE	NE	NE	2	1.86 LPA
38	Coditas	06.12.2021	0	0	0	0	NE	1	0	NE	NE	NE	NE	NE	1	6.00 LPA
39	ARC	08.12.2021	NE	1	2	NE	NE	NE	NE	NE	NE	NE	NE	NE	3	5.00 LPA
40	Tiger Analytics	09.12.2021	0	0	0	0	NE	0	NE	NE	0	0	0	NE	0	8.50 LPA
41	Artech	15.12.2021	0	0	0	0	0	0	0	1	NE	NE	NE	NE	1	4.68 LPA
42	ACC	17.12.2021	NE	NE	NE	0	2	NE	1	NE	NE	NE	NE	NE	3	3.50 LPA
43	NSEIT	20.12.2021	3	4	2	NE	NE	NE	NE	NE	0	0	NE	NE	9	6.00 LPA
44	Labvantage	22.12.2021	1	1	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	3	4.50 LPA
45	Simplex	23.12.2021	NE	NE	NE	0	5	NE	0	NE	NE	NE	NE	NE	5	3.00 LPA
46	ITO BUZ	24.12.2021	NE			NE	NE	NE	NE	NE	NE	NE	NE	NE	0	4.00 LPA
47	Keross	30.12.2021	NE	0	2	NE	NE	NE	NE	NE	NE	NE	NE	NE	2	3.60 LPA
48	Pinnacle	31.12.2021	NE	NE	NE	2	2	NE	3	NE	NE	NE	NE	NE	7	2.18 LPA
49	Amdocs	04.01.2022	0	0	0	NE	NE	NE	NE	0	NE	NE	NE	NE	0	5.00 LPA

No	Company	Date													Total	Package
50	Skipper	05.01.2022	NE	NE	NE	NE	1	NE	NE	NE	NE	NE	NE	NE	1	3.50 LPA
51	TTN	11.01.2022	NE	1	0	NE	NE	NE	NE	0	0	NE	NE	NE	1	6.00 LPA
52	KEC International	11.01.2022	NE	NE	NE	9	2	NE	NE	NE	NE	NE	NE	NE	11	2.85 LPA
53	NTT India	13.01.2022	0	1	3	NE	NE	NE	NE	NE	NE	NE	NE	NE	4	3.50 LPA
54	Piaggio	25.01.2022	NE	NE	NE	1	NE	NE	NE	NE	NE	NE	NE	NE	1	3.00 LPA
55	CBNITS	27.01.2022	1	3	0	4	NE	0	NE	1	1	NE	NE	NE	10	3.00 LPA
56	Harman	27.01.2022	3	6	2	2	NE	2	NE	NE	NE	NE	NE	NE	15	5.00 Lpa
57	Sasken Technology	30.01.2022	0	0	0	NE	NE	NE	NE	0	0	0	NE	NE	0	5.00LPA
58	Blue Star	31.01.2022	NE	NE	NE	0	NE	NE	0	NE	NE	NE	NE	NE	0	4.84 LPA
59	Aloha Technology	31.01.2022	0	0	0	NE	NE	NE	NE	1	NE	NE	NE	NE	1	2.50 LPA
60	Mindtree	02.02.2022	4	3	0	2	0	0	1	1	0	0	0	0	11	4.00 LPA
61	Citus	07.02.2022	2	0	0	NE	NE	NE	NE	NE	0	0	NE	NE	2	5.50 LPA
62	Embee	08.02.2022	NE	2	2	NE	NE	NE	NE	4	NE	NE	NE	NE	8	3.00 LPA
63	Usha Martin	21.02.2022	0	0	0	NE	NE	0	NE	2	NE	NE	NE	NE	2	4.00 LPA
64	Utkarsh	21.02.2022	NE	NE	NE	0	1	NE	0	NE	NE	NE	NE	NE	1	3.00 LPA
65	Qualicom	28.02.2022	NE	NE	NE	1	NE	NE	0	NE	NE	NE	NE	NE	1	2.16 LPA

No	Company	Date													Total	Package
66	Salasar Services	26.02.2022	NE	NE	NE	0	NE	NE	0	NE	NE	NE	NE	NE	0	2.50 LPA
67	Jhonson Control	07.03.2022	NE	NE	NE	0	NE	0	NE	NE	NE	NE	NE	NE	0	4.25 LPA
68	Krishworks Technologies	11.03.2022	0	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0	3.00 LPA
69	Genesys	15.03.2022	NE	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0	3.00 LPA
70	Infosys		6	0	2	3	1	1	0	0	NE	NE	NE	NE	13	3.50 LPA
71	JSW	16.03.2022	0	0	0	0	0	1	0	NE	NE	NE	NE	NE	1	5.50 lPA
72	Panasonic	25.03.2022	0	NE	NE	0	NE	NE	NE	NE	NE	NE	NE	NE	0	2.50 LPA
73	ITC	26.03.2022	0	1	0	1	NE	0	NE	NE	NE	NE	NE	NE	2	4.25 LPA
74	Amazon	27.03.2022	1	3	0	NE	NE	NE	NE	0	NE	NE	NE	NE	4	7.00,12.69,9.60,12.00 LPA
75	Prism Jhonson	28.03.2022	NE	NE	NE	1	0	0	0	NE	NE	NE	NE	NE	1	3.24 LPA
76	Pursuit Software	29.03.2022	0	0	1	0	NE	1	NE	4	NE	NE	NE	NE	6	2.40 LPA
77	Techno Exponenet	01.04.2022	0	0	0	NE	NE	NE	NE	2	NE	NE	NE	NE	2	3.00 PA
78	New Vision Software	02.04.2022	NE	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0	3.20 LPA
79	Vyrazu Labs	08.04.2022	0	0	0	NE	NE	NE	NE	2	NE	NE	NE	NE	2	2.40 LPA
80	Archetive solutions	12.04.2022	2	0	0	2	0	0	0	0	NE	NE	NE	NE	4	1.80 LPA
81	Clirnet	18.02.2022	0	1	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1	2.50 LPA

No	Company	Date													Total	Package
82	Mapline	21.04.2022				NE	NE	NE	NE	NE	NE	NE	NE	NE	0	3.60 LPA
83	Sun Vacumn	22.04.2022	NE	NE	NE	0	NE	NE	2	NE	NE	NE	NE	NE	2	1.80 LPA
84	Ayant Software	25.04.2022	0	0	0	3	0	1	0	0	NE	NE	NE	NE	4	1.80 LPA
85	Green Wave	28.04.2022	0	0	0	0	NE	NE	NE	0	NE	NE	NE	NE	0	2.40 LPA
86	Innoraft	05.05.2022	0	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	0	4.80 LPA
87	Bitwise	14.05.2022	NE	0	0	NE	NE	NE	NE	2	0	0	NE	NE	2	4.00 LPA
88	Quality Kiosk Technologies	07.05.2022	0	1	0	1	0	1	NE	NE	NE	NE	NE	NE	3	3.50 LPA
89	Tega Industries	20.05.2022	NE	NE	NE	NE	NE	NE		NE	NE	NE	NE	NE	0	4.00 LPA
90	La exactly	23.05.2022									NE	NE	NE	NE	0	1.94 LPA
91	BNP Paribas	01.04.2022	0	0	1	0	NE	NE	NE	NE	NE	NE	NE	NE	1	5.50 LPA
92	JUS Pay	14.04.2022	1	0	0	0	NE	0	NE	0	NE	NE	NE	NE	1	27.00 LPA
93	Debson Pumps	02.01.2022	NE	NE	NE	1	NE	NE	NE	NE	NE	NE	NE	NE	1	3.00 LPA
94	Relaxo		1	NE	NE	1	NE	NE	1	NE	NE	NE	NE	NE	3	3.60 LPA
95	Pyramid Consulting	23.05.2022	0	0	0	2	NE	0	0	NE	NE	NE	NE	NE	2	4.67 LPA
96	Reventure		0	0	0	1	0	0	0	0	NE	NE	NE	NE	1	
97	Workmates Core2Cloud		1	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1	3.00 LPA

	Solution Pvt. Ltd														
98	Atos Syntel		1	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1	3.40 LPA
99	Vodafone		1	0	0	NE	NE	NE	NE	NE	NE	NE	NE	NE	1	
100	KPIT		1	0	0	0	NE	0	NE	NE	NE	NE	NE	NE	1	
101	EY		0	0	0	0	NE	NE	NE	0	0	1	NE	NE	1	
102	Suraj Build con		NE	NE	NE	NE	2	NE	NE	NE	NE	NE	NE	NE	2	2.28 LPA
103	L&W		NE	NE	NE	NE	7	NE	7	NE	NE	NE	NE	NE	14	1.80 LPA
104	SGI Engineers		NE	NE	NE	2	NE	NE	NE	NE	NE	NE	NE	NE	2	1.20 LPA

CORE FEATURES

•   A safe and peaceful environment • Relevant and responsive to the changing needs of our students and the society • Academic autonomy and flexibility • Sustainable and all-inclusive growth, including community outreach programmes • Lifelong commitment to learning • Encouragement of merit • Passion and motivation for work • Professionalism • Respect for law • Concern for the improvement of the society • Transparency in functioning of the Institute • Dedication to the Institute Values • Meritocracy • Unparalleled quality and excellence • Honesty, Integrity, Sincerity and Devotion • Trust and freedom with accountability • Appreciation and celebration of creativity • Willingness to try new ideas and make mistakes • Social and Moral responsibility • Respect for every individual, and diversity

WE THUS TARGET

•   To build and develop an excellent institution for creating and imparting knowledge at the undergraduate, post graduate and doctoral levels, contributing to the development of the nation and the humanity at large.

•   To develop leaders with vision, creative thinking, social awareness and respect for our values. • To foster excellence in teaching and research to make a global impact. • To be the leader for academic and industrial collaborations in various disciplines, nationally and internationally. • To create awareness of the true significance of learning and teaching. • To enrich local schools and communities through value-added interactions. • To encourage excellent language skills as part of the institutional culture. • To prepare students not just for their first job but last job as well.

I thus thanking all the stakeholders of this Institute conclude presenting the annual report of 2020-21

INNOVATION CELL
(Government of India)

Ministry of Education
(Government of India)

ATAL RANKING OF INSTITUTIONS
ON INNOVATION ACHIEVEMENTS

Certificate of Recognition

This is to certify that

NARULA INSTITUTE OF TECHNOLOGY

is recognised in the band "PERFORMER" under the category
"Colleges/Institutes (Private / Self Financed) (Technical)"
in Atal Ranking of Institutions on Innovation Achievement(ARIIA) 2021,
a flagship program of the Ministry of Education, Government of India.
29th December 2021.

Dr. Anil D Sahasrabudhe
Chairman, AICTE

Shri K Sanjay Murthy
Secretary (HE), MoE

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell