



2020-2021

# **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



. Prof. M R 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 year 2020 was globally challenged by the COVID-19 pandemic, everything came to a standstill by the onslaught of CORONA, and we lost our dear ones. But life continued and we adapted fast and embraced Online/Digital Education. Dedicated faculty members worked relentlessly to create video lectures, virtual labs uploaded them in the online portal, conducted webinars so that our students didn't 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 Institute Profile**

#### 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**

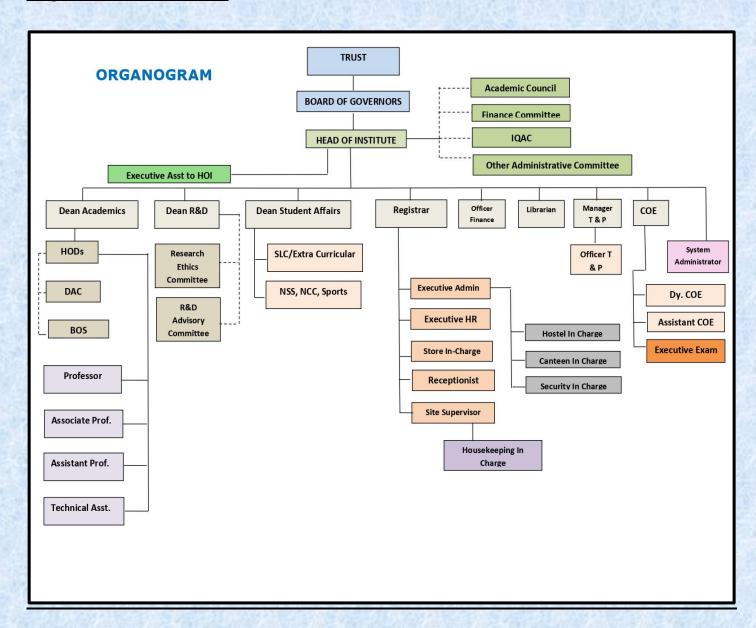
- Best standards and practices of good governance, to be put in place to bring in transparency of operations and improve credibility at all levels.
- Industry-ready professionals to be developed through Interactive Teaching-Learning Process, Corporate exposure and project work.
- Higher Studies/research 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.

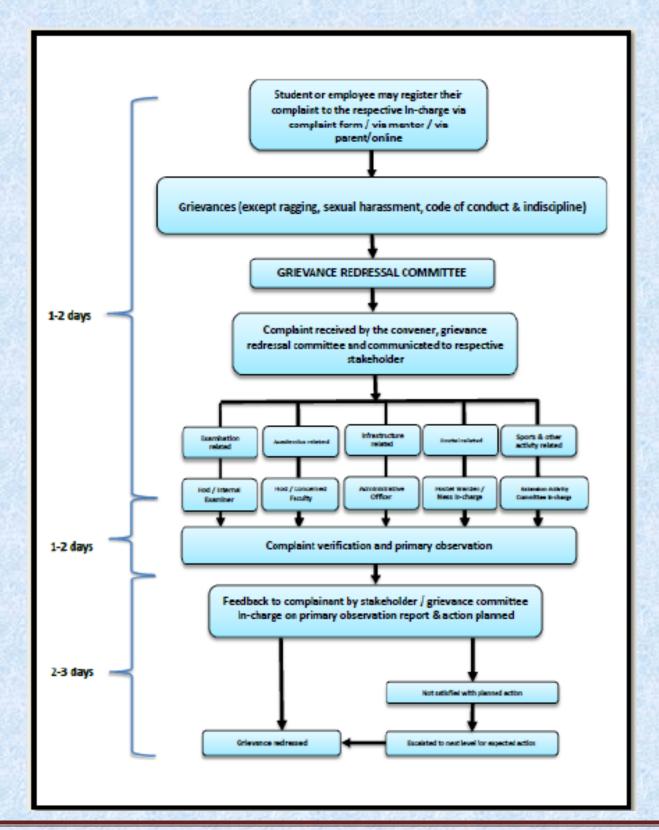
#### **OUTCOME BASED INSTITUTIONAL OBJECTIVE**

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**



# **Grevance Redressal System**



### **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 2<sup>nd</sup> year. The admission occurs through JELET.

Apart from this, admission also occurs through Common Entrance Examination AMPAI, which is an entrance examination conducted by the Association of Minority Professional Academic Institutes (AMPAI). Except for Lateral entry in Engineering, 50% seats are reserved in each course, whereby admission occurs through AMPAI.

Course	Stream	Intake	Admitted
B. Tech	CSE	180	180
B. Tech	ECE	150	142
B. Tech	IT	120	120
B. Tech	EE	120	109
B. Tech	CE	60	58
B. Tech	EIE	30	21
B. Tech	ME	60	42
B.Tech Lateral	CSE	18	18
B.Tech Lateral	ECE	12	12
B.Tech Lateral	IT	6	6
B.Tech Lateral	EE	12	12
B.Tech Lateral	CE	12	12
B.Tech Lateral	EIE	6	3
B.Tech Lateral	ME	6	6
M.Tech	CSE	18	10
M.Tech	EE-PS	12	9
M.Tech	CE-SE	30	30
MCA	MCA	60	60
MCA - Lat	MCA - Lat	6	5
Diploma	CE	30	25
Diploma	EE	60	23
Diploma	ETCE	30	21
Diploma	ME	60	17

# **Chapter 2 INSTITUTIONAL EVENTS**

## **Events Organized**

Amidst the fear and panic caused by the outbreak of the threatening pandemic, NiT hosted "Techstasy 2021-the Inter School competition on a digital platform" during 5-6th May. The Prize Distribution of the successful contestants was held on 9th May, 2021 through the institute's Facebook page.



The Department of Computer Science & Engineering has organized an International Webinar session on "Multi Agent System" on 28th April, 2021.

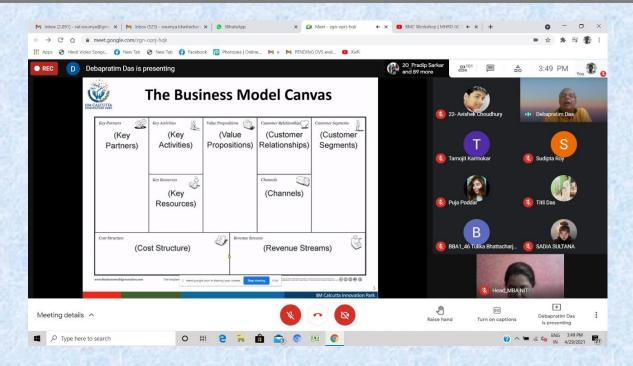
The resource person for the webinar was Ms. Abira Sengupta, an Alumnus of CSE 2013 passout batch from Narula Institute of Technology. She is presently doing her PhD in Otago University, New Zealand.



The Department of Electronics and Communication Engineering, Alumni association of NIT, IEEE-CAS Kolkata section and IETE student Branch ECE has conducted a Webinar on "Crash course to innovation and startups" by Mr. Soumyadeep Ghosh, an alumni ECE,2014 Passout batch, Advisory System Analyst at Client Innovation Center IBM On 30th April 2021, 12 PM onwards.



A Business Model Canvas Workshop was organized by the IIC section of NiT on 29th April, 2021 at 3.30 PM in the online mode. The main objective of the programme was the conversion of disseminated ideas into application-oriented successful Business Plan for the students. The Canvas Workshop is a platform for the students through which they will not only gather knowledge and ideas about the development of a true business model, but also would be motivated to transform their own ideas.



The Business Administration Department organised a webinar on 'Scope and Opportunities in Financial Market' on 20th April, 2021 at 11 AM. The objective was to address different types of instruments and scope of job opportunities in the financial market.

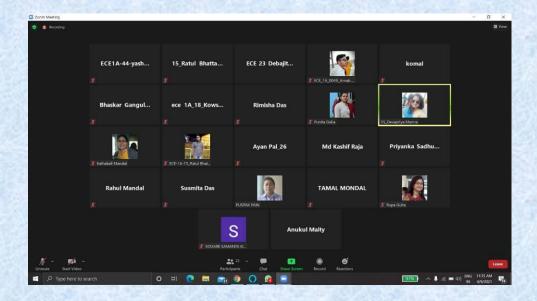
Mr. Sanjeev Goyal, CFO, JIS Group was present and participated at the animated discussion during the webinar. Dr.Arindam Saha, M.D. Vista Intelligence Pvt. Ltd. was the main speaker.



The Department of Computer Application, organized webinar on "Machine has Learning in the Internet of Things" on 16th from 2021 11 AM April, onwards. The session was facilitated by Mr. Atanu Roy Chowdhury, Founder CEO, Capsule Labs. More than 100 students and departmental faculty members participated in the session.



On 9th April, 2021, the NSS Committee had organized an event on "Elimination of Single Use Plastic". The event was attended by 1st year students from all disciplines of the Institute along with faculty and staff members.



The Festival of colours is celebrated with great enthusiasm and enjoyment during the Pre Holi Celebration at the institute premises on 26th March,2021. The Nit-ians chose the eco-friendly way by using organic colours and flowers to spread the festive fervour.

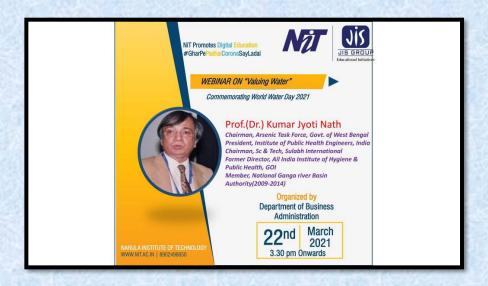


Narula Institute of Technology, under the aegis of JIS Group Educational Initiatives has organized a "One-day seminar on National Education Policy 2020" on 26th March 2021 at 11 AM on Zoom Platform.



The Business Administration Department of organised a webinar on 'Valuing Water' commemorating World Water Day on 22nd March, 2021 at 3:30 PM. Dr.Sriparna Guha, HOD-BA Department introduced Dr. Kumar Jyoti Nath before the house and Mr.

Somnath Chakraborty, Assistant Professor of the Dept, hosted the meeting along with Mrs, Manali Chowdhury, Assistant Professor.



The Department of Electronics and Communication Engineering, and Alumni association

of NIT, IEEE GRSS Kolkata Section, IEEE-CAS Kolkata section and IETE Branch student ECE has conducted an Online Webinar on "Data Science and Industry Trends" on 20th March 2021 from 10.15 AM onwards. The online webinar was coordinated by Dr. Anilesh Dey (Head, ECE Department), Ms. Moupali Roy (Assistant Professor, ECE), Ms. Rimpi Datta (Assistant Professor, ECE) and Mr. Bholanath Pal (TA, ECE).



The session was facilitated by Mr. Binayak Goswami, alumni ECE, Manager-AI/ML, Ernst & Young.

The MHRD IIC Council of Narula Institute of Technology organized Two Awareness Programme on Industrial Motivation Campaign-(Y)Industrial Motivation Campaign in collaboration with MSME on 4th and 5th March 2021 in the institute seminar hall. This programme was coordinated by Mr. Shiladitya Mandal, Mr. Goutam, Ms. Susmita Das, Ms. Pratyusha Biswas Deb, Mr. Soumya Bhattacharya, Ms. Punita Gaba Pattanayak, members of MHRD IIC Council of Dr. Sandhya Narula & Institute of Technology. The whole session was conducted by Mr. Shiladitya Mandal, Asst Prof. CE Dept, NiT.



The Electrical Engineering Department had organised a webinar on "Building a Global Career in Today's Corporate World" on 27th February, 2021 though the online mode.

The speaker for the session was Mr. Rupesh Kumar Singh, Assistant Vice President-CITI BANAMEX and also an alumni of this institute. He has more than 10 years of experience in various roles ranging from application, developer, business analyst & an expert in various digital domains. The programme was hosted by Soumya Subhra Biswas who is a student of B.Tech EE 4th year of this institute & coordinated by the faculty members of the EE Department.



The IETE Student Forum, Electronics and Communication Department of Narula Institute of Technology organised an online webinar - 5G Core Architecture and Use Cases at 7 PM on 20th February, 2021.



World Cancer Day is a truly global event and in order to achieve our objective to create awareness for the vicious disease called Cancer, Narula Institute of Technology has organized "Cancer Awareness Week-2nd-5th February,2021" through the virtual mode.

The NSS Unit & the Women Cell of the Institute had organized weeklong events to create awareness amongst our students, faculty & staff members and the neighboring areas.



The IETE Student Forum, Electronics and Communication organized an online webinar - "Machine Learning for Images" at 7 PM on 5th February 2021.

The event was facilitated by Dr. Abhishek Das. He is currently working as an Associate Professor and former Head in the Dept. of Computer Sc. & Engineering at Aliah University, Kolkata.



On the occasion of our Beloved Babuji, Sardar Jodh Singh's 101st Birth Anniversary, Narula Institute of Technology inaugurated Babuji Memorial Gallery on 5th February, 2021.

On the other hand the JIS Samman was conducted in the Institute level to felicitate the achievers in the academic categories and also the winners of JIS Spirit in the Intra college contest.



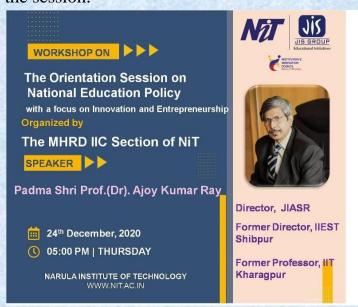
Narula Institute of Technology has organized an Awareness E-Workshop in Collaboration with IITM on 6th January, 2021. This awareness E-Workshop was intended to explain the details for taking the courses from NPTEL.

It started with the inaugural speech of MR. JAYANTA PAL, HoD, CSE Department and SPOC of NPTEL Local Chapter, Narula Institute of Technology. The session was then conducted by MR. S. S. DAS of IIT Kharagpur. The whole program was coordinated and anchored by Ms. Divya Dev, Project associate, NPTEL, IIT Madras



The MHRD IIC Council of Narula Institute of Technology organized an Orientation Session on the National Education policy with a focus on Innovation and on 24th 2020 from 5:00 Entrepreneurship held December. PM through Zoom platform. This programme was coordinated by Dr. Sandhya Pattanayak (Assistant Prof-ECE Dept.) & Mrs. Pratyusha Biswas Deb(Assistant Prof-EE Dept.), members of MHRD IIC Councill of Narula Institute of Technology.

The session was graced by Honorable Speaker Padmasree Prof. (Dr.) Ajoy Kumar JIS Institute of Advanced studies, Former Director, Ray, Director, Shibpur. Principal-NiT, Prof. (Dr.) M.R. Kanjilal and all the HoDs and members of the MHRD IIC attended the session.



The MHRD IIC section of Narula Institute of Technology has organized a webinar on "Entrepreneurship and Innovation Career Opportunity" as on 23rd December, 2020 from 4:30 PM on Google Meet Platform. The event was coordinated by Dr. Sandhya Pattanayak, Assistant Professor- ECE Department, Mrs. Deb, Assistant Professor- EE Department and Pratyusha Biswas Mr. Bhattacharya, Assistant Professor- IT Department & members of MHRD IIC Councill of Narula Institute of Technology.



The session was facilitated by Mr. Arijit Hajra, Founder -Think again Lab

The Women Cell of Narula Institute of Technology observed Women Empowerment Week (14-19 December, 2020) and had a weeklong celebration. This weeklong initiative comprised of a series of speaker events, performances, debate, panel discussions, displays, courageous conversations by students and invited speakers and was inaugurated by honourable Principal-Prof. (Dr.) M.R. Kanjilal.



The MHRD IIC(Institution's Innovation Council) of Narula Institute of Technology organized an Orientation Session on the National Innovation and Startup policy on 17th Dec, 2020 from 4:30 pm over Google meet.

This programme was coordinated by Assistant Prof.Dr. Sriparna Guha, Assistant Prof.Dr. Sandhya Pattanayak and Assistant Prof. Mr. Soumya Bhattacharyya, members of MHRD IIC of Narula Institute of Technology.



On 24th December 2020, the NSS committee of Narula Institute of Technology organized the "Annual Clothes Distribution programme" on the Christmas Eve.



The MHRD IIC section of Narula Institute of Technology has organized a webinar on 'Identifying Intellectual Property Component at the early stage of Innovation: Intelligence in IoT' on 16th December,2020 from 5 PM onwards on Google Meet Platform. The resource person for the webinar was Mr. Atanu Roy Chowdhury, Founder of Capsule Labs.



The 3rd International Conference on Computational Advancement in Communication Circuits and Systems (ICCACCS-2020) was organized by Narula Institute of Technology during 17th -19th December, 2020 over Zoom platform. The programme started with an inaugural session with the virtual lighting of the lamp followed by a spiritual hymn.

The welcome address was delivered by the Principal,NiT and Organizing Chair of the conference, Prof. Maitreyi Ray Kanjilal. The session was addressed by Padmashree Prof. Ajoy Kumar Ray, Director, JIS Institute of Advanced Studies, Former Director, IIEST, Shibpur, Prof. IndranilSengupta, Professor, IIT, Kharagpur, Prof. P.K.Banerjee, Adjunct Professor, NiT, Prof. Salil Kumar Sanyal, Organising Co- Chair and Ms. Nidhi Singh, Registrar, NiT.

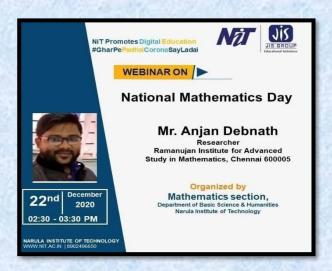
The book of abstracts of ICCACCS 2020 was published virtually by all the dignitaries present at the occasion. It was reported that out of 57 papers, 34 papers have been accepted by the reviewer committee which would be presented in the conference and published as Conference Proceedings by Springer under Book Series "Lecture Notes in Electrical Engineering". The inaugural session ended with the vote of thanks by Prof. S.C.Konar, Convener of ICCACCS 2020.

The Department of Electronics and Communication Engineering, and IEEE-CAS Kolkata section has conducted an Online Webinar on "Engineers in Real World" on 22nd December 2020, 8.00 PM onwards.

The session was facilitated by Mr. Ratnadip Paul, Senior Developer and Data Analyst, Portland, Oregon, USA.

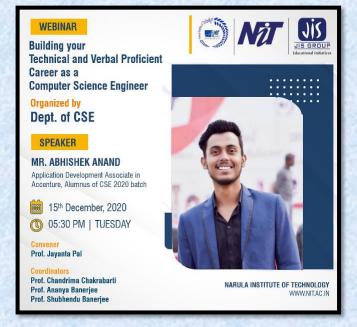


On the auspicious occasion of National Mathematics Day, the Mathematics section of Basic Science and Humanities department, had organised a webinar on "The Legacy of Srinivasa Ramanujan" on 22nd December, 2020 at 2:30 PM using Zoom platform. The focus of this webinar was to develop and inculcate the interest in Mathematics among the students. Mr. Anjan Debnath, Research Scholar of Ramanujan Institute of Advanced study in Mathematics, Chennai, was the keynote speaker of the session.

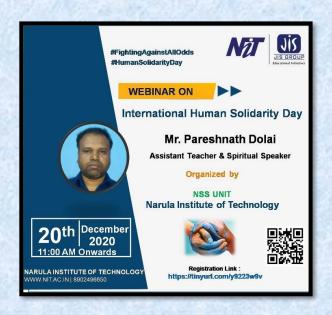


The Department of Computer Science & Engineering had organized a Webinar session on "Building your technical and verbal proficient career as a Computer Science Engineer" on 15th December, 2020.

The resource person for the webinar was Mr. Abhishek Anand. He is an Alumnus of CSE 2020 passout batch from Narula Institute of Technology. He is presently working as an Application Development Associate in Accenture.



On 20th December 2020, the NSS Unit of Narula Institute of Technology celebrated the "International Human Solidarity Day". This day is designated to be celebrated by the United Nations in order to celebrate our unity in diversity. The Guest Speaker-Mr.Pareshnath Dolai, Assistant teacher and a Spiritual Speaker enlightened all the participants with his speech and asked all to adopt an empathic attitude to make this world a better place followed by the question answer session.



The Institution's Innovation Council had organised a program 'My Story-Motivational Session by Successful Innovators' on 10th December 2020 on the virtual platform from 5 PM to 6 PM. The eminent speaker was Ms. Nilanjana Mukherjee from Universal Group. The program has been started with the introduction of the IIC Cell,NiT and its importance in the institution by Dr. Sriparna Guha, Head of BA Department & Member of the IIC Cell and ended with the vote of thanks given by Ms. Punita Gaba, Executive Administrative & Member of IIC Cell.



The Department of Computer Application, had organized a webinar on "Introduction to 5G" on 21st November, 2020 from 3 PM onwards.

The session was facilitated by MCA 2007 passed alumni Ms. Kumkum Baidya, Senior Software Engineer, Ericsson India Pvt.Ltd.



The Department of Computer Application had organized a webinar on "Digital Transformation and Cloud Management Issues during COVID Pandemic" on 7th November, 2020 from 3 PM onwards.

The session was facilitated by an eminent academician Dr. Madhu Agnihotri, Assistant Professor and HOD, Department of Information Technology, Commerce, St Xaviers College Autonomous Kolkata.



The Department of Civil Engineering had organized a webinar on 'TIPS TO SUCCESS' ' on 17th October, 2020 from 4.00 PM onwards. The Guest Speaker of the webinar was Sri. Subhasis Ghosh, Civil Engineer and an Entrepreneur.



NiT Jewels---The Annual Award Ceremony is an opportunity to recognise and reward those who have excelled academically or made an outstanding contribution to the college. Narula Institute of Technology organised its much awaited Annual Award Program on digital platform "Nit Jewels" on 20th October, 2020 where students and teachers were honored for their excellent performance and contribution.



The NSS UNIT of Narula Institute of Technology had organized a Digital Workshop on "Social Entrepreneurship" on 17th Oct 2020 from 2:00PM to 4:00PM over Google Meet platform. The resource person was Mr. Abhishek Ranjan from Mahatma Gandhi National Council of Rural Education (MGNCRE), Higher Education Department, Ministry of Education-Govt of India.



The Department of Electrical Engineering had organized a webinar titled "College to Corporate" under Engineering College Student Chapter- Institute of Engineers (India) on 17th October, 2020 from 6:30 PM to 8:30 PM over Google Meet platform. The speaker was Ms. Oindrila Saha, System Engineer, Tata Consultancy Services Ltd. and Alumni of the Department of Electrical Engineering (2012-2016).



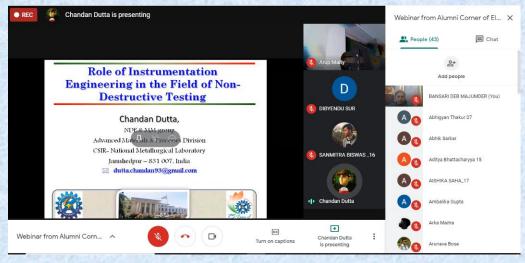
The Department of Computer Application had arranged a virtual Industry Visit on 17th October, 2020 for MCA students at TechTree Technologies.



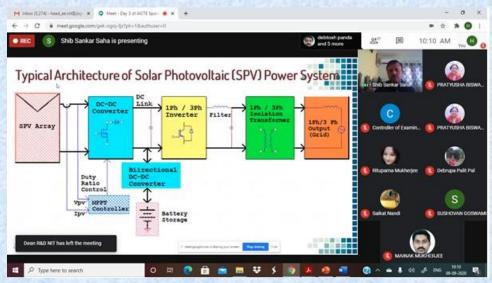
The Department of Civil Engineering of had organized a webinar on'Structural Detailing Using TEKLA Software' on 13th October, 2020 from 4PM onwards. The Guest Speaker of the webinar was Sri Shomo Banerjee, Co-Founder of "Imagiminds Cadd & Engineering Solutions, A CADPOINT AUTHORIZED Training Institute. In this session Sri Shomo Banerjee, enlightened about TEKLA software and its functions.



The Electronics and Instrumentation Engineering Dept. (EIE) had conducted a Webinar on "Role of Instrumentation Engineers in the field of Non-Destructive Testing" on the 10th October 2020 from 11 AM to 12:30 PM. Mr. Chandan Dutta, Alumni of the EIE Dept, NiT was the speaker of the session. He is presently working as a Senior Research Fellow in CSIR Metallurgical Laboratory of Jamshedpur. He has got four patients at his stake and has immense success in the research domain.



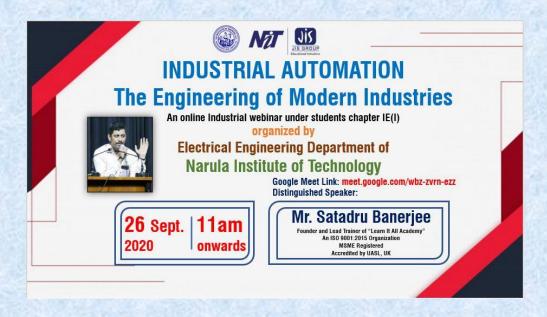
The Department of Electrical Engineering of had organized an AICTE Sponsored Short Term Training Programme titled Recent Trends in Internet of Things (IoT) and Monitoring and Embedded System Based Control of Distributed Generation (Phase III) from 7th-12th September,2020 . The programme was held in Google meet in which the lecture sessions were conducted and it was live broadcast on YouTube.



Basic Science and Humanities Department had organized a two-days online 3rd "National conference on Science, Technology and Communication Skills (NCSTCS 2K20)", during 25-26 September, 2020 using Zoom platform.



The Department of Electrical Engineering had organized a webinar titled "INDUSTRIAL AUTOMATION-The Engineering of Modern Industries" under Engineering College Student Chapter- Institute of Engineers (India) on 26thSeptember, 2020 from 11:00 AM to 1:30 PM over Google Meet platform. The speaker was Mr. Satadru Banerjee, Founder and Lead Trainer of "Learn It All Academy"- An ISO 9001:2015 Organization, MSME Registered & Accredited by UASL,UK.



A "Webinar on Law-Labour-Lockdown" was conducted by the Department of Business Administration on 8th September, at 4PM on Zoom platform. The Key speaker of this webinar was Mr. Kallol Dutta, Joint Labour Commissioner, .of West Bengal.



The Mechanical Engineering Department on behalf of Narula Institute of Technology organized Vishwakarma puja at the college workshop premises on 17th September, 2020.



Electrical Engineering department had organised a Short Time Training Programme (STTP) titled Recent Trends in Internet of Things (IoT) and Embedded System Based Monitoring and Control of Distributed Generation (Phase III), sponsored by the All India Council for Technical Education (AICTE) from 7th-12th September,2020 over online platform.



The Department of Mechanical Engineering had organised a weeklong Staff Development Program titled "Technical Skill Grooming and the Art of Living" from 10th -14th August, 2020 on Google Meet platform. The distinguished speakers include: Swami Vedatitananda Maharaj (Correspondent, Ramakrishna Mission Shilpamandira), Dr. Ratnakar Das, Assistant Professor, Manufacturing Engineering, NIFFT, Ranchi.



The Department of Mechanical Engineering had organised a weeklong webinar Program titled "Role of Engineers in Make in India" - The Talk Show from 17th -21st August, 2020 on Google Meet platform.



Narula Institute of Technology has organized the Farewell Program "BIDDING ADIEU 2020" for our 2020 passout batch on 9th August, 2020 from 6 PM onwards through digital mode.



Narula Institute of Technology has celebrated its 19th year of Foundation Day on 17th August, 2020 at the institute premises.



On 15th August, 2020, Narula Institute of Technology celebrated India's 74th Independence Day. This year due to unique drawbacks of having to maintain social distancing, the Institute celebrated in a unique manner- in both virtual and real life mode.



## Webinar on "Introduction to Big Data"

The Department of Computer Application, had organized a webinar on "Introduction to Big Data" on 27th June 2021 from 04:30 PM onwards.

The session was facilitated by Prof. Amlan Mukherjee, Assistant Professor, Cape Peninsula University of Technology, Cape Town, South Africa

#### *Topics covered in the session are:*

Introduction to Big Data

Use Case

Four V's of Big Data

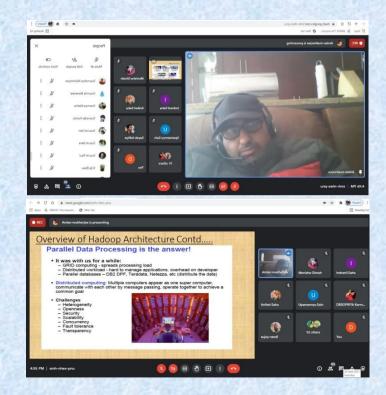
Commoditization of hardware enabling new analytics

Overview of Hadoop Architecture

Hadoop Distributed File System (HDFS)

<u>Around 110 students participated in the session.</u> The session was very interesting and all the participants enjoyed and interacted with the speaker throughout the session. It was coordinated by Ms. Debrupa Pal, Assistant Professor-CA Department.

Please find herewith the attached link and screenshots of the webinar. https://youtu.be/cBoms0Ivaa8



#### Webinar on "Prototype Validation - Prototype Converting into a Startup"

The MHRD IIC Council had organized a webinar on "Prototype Validation - Prototype Converting into a Startup" on 26th June, 2021 from 5:00 pm onwards over Google Meet Platform.

The resource person for the webinar was Mr. Atanu Roy Chowdhury, Founder of Capsule Labs. Mr. Atanu Roy Chowdhury is a maker and an IoT evangelist. He was a senior techno functional consultant for IoT/AI led digital transformations providing delivery and solutioning support to Altiux's global sales teams across India, South Korea, Japan, Taiwan and USA.

The program commenced with a Welcome Address by Ms Rupa Saha. Mr. Atanu Roy Chowdhury in his session highlighted the spirit of Entrepreneurship and how people bring products into a market. He gave ideas about the basic requirements and steps to be followed before forming a company.

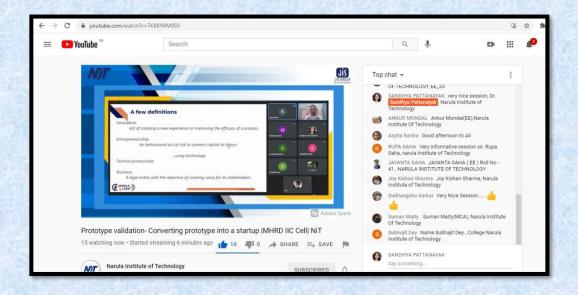
It was a great learning experience for all the participants as the sessions were very informative and interactive. A memento of Appreciation was also presented to Mr. Atanu Roy Chowdhury for his valuable session. This programme was coordinated by Ms. Rupa Saha (Asst. Prof.-CA Dept), Mr. Arkendu Mitra (Asst.Prof-EE Dept) & Dr. Biswajit Halder (Asst.Prof-CSE Dept), members of MHRD IIC Council of Narula Institute of Technology and Dr.Sandhya Pattanayak as Convener.

The session ended with a vote of thanks from Dr. Biswajit Halder member, MHRD IIC Council, Narula Institute of Technology.

Some of the snapshots and Youtube link are attached herewith for your reference.

#### YouTube link:

https://youtu.be/TKBKNfM9SII





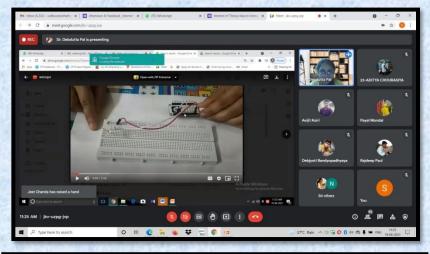
## Webinar on "Internet of Things-Idea to Innovation"

The Department of Computer Application, had organized a webinar on "Internet of Things-Idea to Innovation" on 19th June, 2021 from 10:30 AM onwards. The session was facilitated by Dr. Debdutta Pal, Associate Professor & HOD, Department of Computer science & Engineering, Brainware University.

Topics covered in the session are:
What is IOT
Why IOT
Architecture of IOT
IOT Protocols
A small project on IOT

More than 90 students participated in the session. The session was very interesting and all the participants enjoyed and interacted with the speaker throughout the session. It was coordinated by Ms. Subhasree Bhattacharjee, Assistant Professor-CA Department.

Please find herewith the attached link and screenshots of the webinar. https://drive.google.com/file/d/10B0\_30HvfLsWGBlxoZfrkx4eRiyZdxL8/view





## Webinar "Introduction to Deep Learning"

The Department of ComputerApplication hadorganized a Webinar on "Introduction to Deep Learning" on 12th June, 2021 from 3 PM onwards.

The session was felicitated by an eminent academician, Dr. Loshma Gunisetti, Professor, CSE Department, Sri Vasavi Engineering College, Andhra Pradesh.

Topics covered in the session are:

**Evolution of Deep Learning** 

Artificial Neural Network (ANN) & its features

Steps in Deep Learning

Types of Learning Algorithms

Types of Deep Learning Network Architectures

Applications of Deep Learning

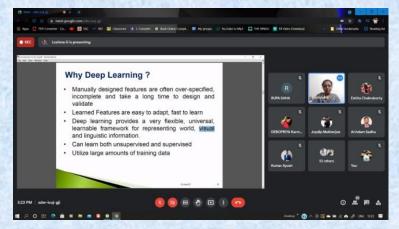
Around 70 students and all the departmental faculty members participated in the session. It was coordinated by Ms. Rupa Saha, Assistant Professor, CA department.

The session was very interesting and interactive. It continued for two hours with different aspects on Deep Learning.

Please find herewith the attached link and the screenshots of the webinar.

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#### Webinar on "Storage Concepts - SAN"

The Department of Computer Application, had organized a webinar on "Storage Concepts - SAN" on 5th June, 2021 from 10:30 AM onwards.

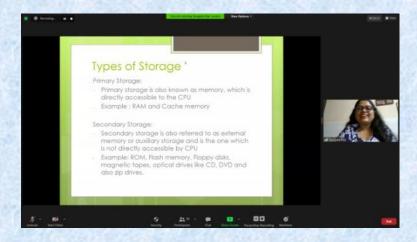
The session was facilitated by Ms. Saugata Das, Senior Project Engineer, Wipro Ltd, Alumni CA.

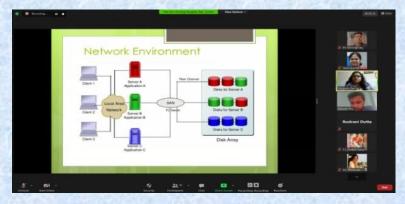
Topics covered in the session are: Storage Networking Technology Storage Area Network
Storage System & Types
RAID Technology
Virtualization
Server Virtualization
Storage Virtualization

Around 90 students participated in the session. The session was very interesting and all the participants enjoyed and interacted with the speaker throughout the session. It was coordinated by Ms. Debrupa Pal, Assistant Professor-CA Department.

Please find herewith the attached link and screenshots of the webinar.

https://youtu.be/8CGXd0iii6Q





#### Webinar on "Security Issues in Electronic Payment"

The Department of Computer Application, Narula Institute of Technology had organized a webinar on "Security Issues in Electronic Payment" on 28th May 2021 from 10:30 AM onwards.

The session was facilitated by Prof Ramit Kumar Roy, Assistant Professor, Department of Information Technology, St Xavier's College Autonomous Kolkata.

Topics covered in the session are:

Advantages of e-payment

Importance of e-payment during a pandemic

How to keep our confidential information safe

Common mistakes committed during online transactions

Measures to take if confidential information is leaked

Around 100 students participated in the session. The session was very interesting and all the participants enjoyed and interacted with the speaker throughout the session. It was coordinated by Ms. Debrupa Pal, Assistant Professor-CA Department.

Please find herewith the attached link and screenshots of the webinar.

https://youtu.be/POf2Sygp9g8



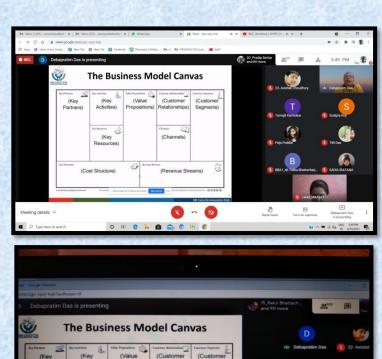
## Workshop on "Business Model Canvas"

A Business Model Canvas Workshop was organized by the IIC section,NiT on 29<sup>th</sup> April, 2021 at 3.30 PM in the online mode. The main objective of the programme was the conversion of disseminated ideas into application-oriented successful Business Plan for the students. The Canvas Workshop is a platform for the students through which they will not only gather knowledge and ideas about the development of a true business model, but also would be motivated to transform their own ideas.

The session was started by the inaugural speech of Dr.Saradindu Panda-Dean R&D,NiT and hosted by Dr.Sriparna Guha-Head,BA Department,NiT.

The online Workshop was one of its kind, where the revered speaker, Mr. Debapratim Das, Innovation Part of IIM Calcutta has discussed on the building blocks of a business model, where he elaborated his discussion on customer segmentation, value proposition and revenue generation models. The participation of the audience was encouraging, as there were more than 100 participants actively present in the Programme. One student did ask a question related to his own business. Other participants were also equally curious in the workshop.

The recording and few photographs of the workshop are attached herewith for your kind perusal. https://drive.google.com/file/d/17fcbtT9gYV2g74CEzbUVQpgdg7z94IOk/view?usp=sharing



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## Webinar on "Machine Learning in the Internet of Things"

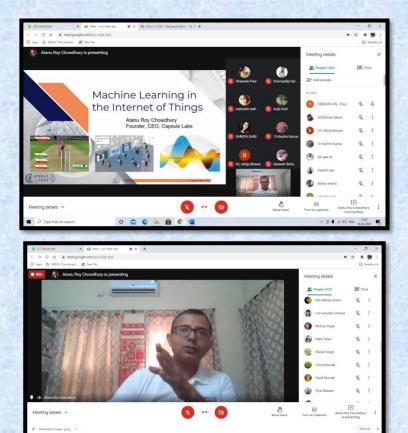
The Department of Computer Application, had organized a webinar on "Machine Learning in the Internet of Things" on 16th April, 2021 from 11 AM onwards. The session was facilitated by Mr. Atanu Roy Chowdhury, Founder CEO, Capsule Labs. Topics covered in the session are:

Definition of IoT system Usage of Deep Learning for classification Introduction to Prediction Algorithms for forecasting Infrastructure of an IoT system

More than 100 students and departmental faculty members participated in the session. The session was very interesting. All the participants enjoyed and interacted throughout the session. It was coordinated by Ms. Debrupa Pal, Assistant Professor of CA Department along with Ms. Subhasree Bhattacharjee, Assistant Professor, CA department.

Please find herewith the attached link and screenshots of the webinar.

https://drive.google.com/file/d/11dsyHO40VindXmzZGsJI5gqj1Azt7z5y/view?usp=sharing



## One-day seminar on "National Education Policy 2020"





## Webinar on "Automotive Application Software Development for Embedded System"

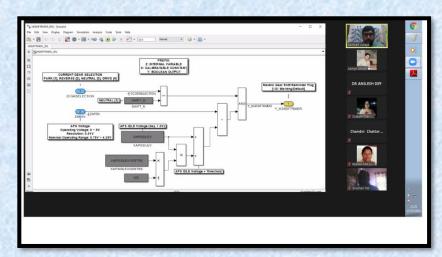
The Electronics and Communication Engineering Department of Narula Institute of Technology have successfully conducted a Webinar on the topic

"Automotive Application Software Development for Embedded System" on 13<sup>th</sup> March 2021 from 11AM onwards.

The resource person of this Webinar was Mr. Abhisek Juneja, a Systems Engineer at Tata Consultancy Services and also an alumni, NiT.

Mr.Juneja illustrated the automotive application and related processors in a very informative and interactive way. He also explained the applications of the embedded processors and IoT, like SCADA networks, embedded controllers etc.

Students from the ECE Departments of our college along with the faculty members have taken part in this program. More than 93 participants registered in this webinar and also asked some interesting questions in the interactive session. Overall it was an interesting session to attend with.





## Online Workshop on "Intellectual Property Rights and IP Management for Start Up"

The resource person for the webinar was Mr. Meghdut Bhattacharya, IPR Attorney & ISO Lead Auditor. The program commenced with a welcome address by Dr. Rupa Bhattacharya Assistant Professor, BS& HU Department.

Mr. Bhattacharya shared valuable information with the participants regarding filing of patents and the procedures to be followed in going for a startup. He also explained the way in which the patents should be written and the significance of Intellectual Property Rights. He interacted with the faculty and students and expressed his views regarding the importance of patenting. It was a marvelous experience for all the participants as the entire session was very informative and captivating. The session was concluded with a very interactive Q&A session on the different prospects of patenting and the vote of thanks given by Dr. Saradindu Panda, Dean R&D, Narula Institute of Technology.



#### Webinar on "Building a Global career in today's Corporate World"

The Electrical Engineering Department of Narula Institute of Technology has organised a webinar on "Building a Global Career in Today's Corporate World" on 27th February, 2021 though the online mode.

The speaker for the session was Mr. Rupesh Kumar Singh, Assistant Vice President-CITI BANAMEX and also an alumni of this institute. He has more than 10 years of experience in various roles ranging from application, developer, business analyst & an expert in various digital domains. The programme was hosted by Soumya Subhra Biswas who is a student of B.Tech EE 4th year of this institute & coordinated by the faculty members of the EE Department.

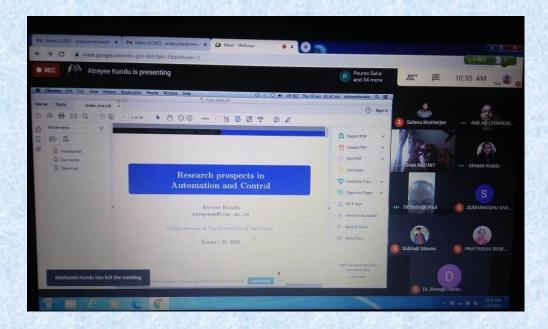
The welcome speech was delivered by Prof. (Dr.) Bishaljit Paul, Head-EE Dept followed by Prof. (Dr.) S. C. Konar, Professor - EE Dept. They shared different prospects & ways to build a career in the corporate world in the Engineering & science domain.

Mr.Singh discussed different programming language & software development & shared his how to build a Global career in today's Corporate World.He emphasized on people interaction, language skill & attitude in job scenario. More than 100 participants attended the webinar including students, faculty and staff members.

The session came to an end with the Vote of Thanks by Prof. Amlan Chakrabarti, COE - NIT.



## Webinar on "Research Prospects in Automation & Control"



## Webinar on "Data Warehouse and BI Development"

The Department of Computer Application, Narula Institute of Technology has organized a webinar on "Data warehouse and BI development" on 21st December 2020 from 6 PM onwards.

The session was facilitated by Mr. Suparno Chatterjee, Team Lead, Tech Mahindra and alumni, MCA-2010

Topics covered in the session are:

Database and Data warehouse

Data warehouse Architecture

Data warehouse benefits

**ETL Process** 

Data warehouse Schema

**Dimension-Fact Model** 

Slowly Changing Dimension(SCD)

**Business Intelligence** 

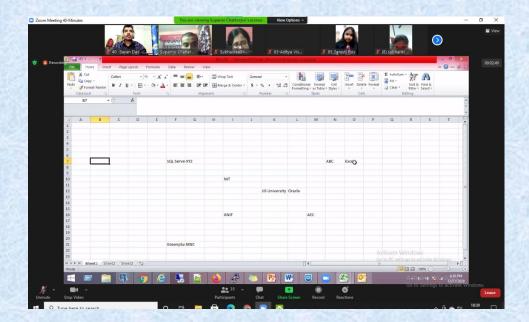
Sample Data warehouse Model

Students and all the departmental faculty members participated in the session. The session was very interesting. All the participants enjoyed and interacted throughout the session. It was coordinated by Ms.

Debrupa Pal, Assistant Professor of CA Department along with Ms. Subhasree Bhattacharjee, Assistant Professor, CA department.

Please find herewith the attached link and screenshots of the webinar.

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## Webinar on "Blockchain - A Technology Revolution for Smart Transactions"

The Department of Computer Application organized a webinar on "Blockchain – A Technology Revolution for Smart Transactions" on 19<sup>th</sup> December, 2020 from 4 PM onwards. Dr. S C Jain, Professor, CSE Department, Chairperson, Department Research Committee of CSE, Rajasthan Technical University, Kota, an eminent academician was the speaker of the session. Topics covered in the session are:

Issues with current Banking Systems
Cyber Crime & Other Issues
Revolutionary Concepts
Blockchains & Public Ledgers
Blockchain Working

- Digital Wallet
- Cryptography
- Miner
- Consensus

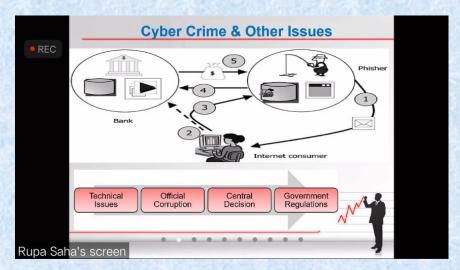
Blockchain Versions Cryptocurrency Solutions Bitcoin Introduction Blockchain Resolution

All the departmental faculties and students and few faculties and students from CSE & IT departments participated in the session.

The webinar continued for one and a half hours with different aspects on learning Blockchain. The webinar helped the participants to gather information about the various aspects and scopes of Blockchain.

Some snapshots of the Webinar and the link of the recorded session is attached herewith. https://drive.google.com/file/d/1m5hG\_AX2qGrPUhkEZwapmSOLjRXi9sf8/view?usp=sharing





#### Webinar on "Database development, business intelligence development hot skills & IT experience

The IETE Student Forum , Electronics and Communication Department of Narula Institute of Technology organised a webinar on -

"Database development, business intelligence development hot skills & IT experience" at 7 PM on 5th December 2020 ,through Zoom.

The speaker of the session was Mr. Dhiman Dey. He is currently working in the CGI, Hyderabad as ETL Developer Team Lead(Banking domain). He is also an alumni of the 2014 batch of ECE Department, Narula Institute of Technology.

The session was very much informative. Students interacted with the speaker and Chairman, IETE Kolkata centre. Mr. Dey gave the current scenario of IT Industries and their requirements. He also pointed out the subjects students should stress from a job point of view. The session came to an end by the vote of thanks given by our teachers and members of the organising committee.



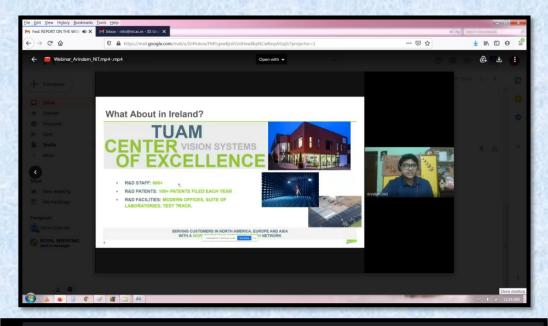
#### Webinar session on "MultiCamera Automotive Vision Systems- An overview"

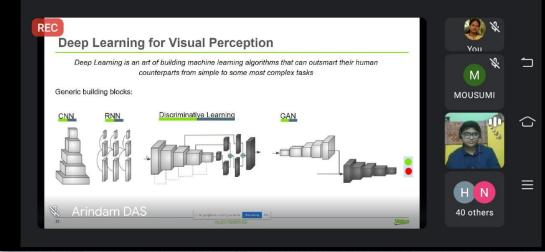
The Department of Computer Science & Engineering of Narula Institute of Technology has organised a Webinar session on "MultiCamera Automotive Vision Systems- An overview" on 5<sup>th</sup> December, 2020, which was delivered by MR. ARINDAM DAS, Senior Engineer, department of Detection Vision Systems (DVS) at Valeo India, Chennai. He is currently involved in deep learning based algorithm development activities in autonomous driving systems. He has over 7 years of industry experience in computer vision, deep learning, raster image processing and document analysis. He has authored 13 peer reviewed publications and 21 patents (US and German) including 17 grants. He is a member of the Irish Pattern Recognition and Classification Society (IPRCS), a member body of the

International Association for Pattern Recognition (IAPR). He is one of our prestigious alumni too, batch of 2013, CSE, NiT.

The session was attended by around 50 participants. Question-answer session became interesting, as not only the students raised questions, but teachers also took part actively and cleared their doubts. As the speaker is having 21 patents, including 17 grants, it was asked to share his experience of having so many international patents and how the students can move forward. This exposure was an added ornament of the session. The session was coordinated by Ms. Sagarika Chowdhury and Dr. Subhram Das, Assistant Professors, Department of CSE.

Some of the snapshots and the recorded link of the session are attached for all concern. https://drive.google.com/file/d/1HhqrYGQAF87\_7zUI-yE-GedzIQpjp5Mo/view?usp=sharing





#### Webinar on "Distributed Computing Environments"

The Department of Computer Science & Engineering of Narula Institute of Technology has organised a Webinar session on "MultiCamera Automotive Vision Systems- An overview" on 5<sup>th</sup> December, 2020, which was delivered by MR. ARINDAM DAS, Senior Engineer, department of Detection Vision Systems (DVS) at Valeo India, Chennai. He is currently involved in deep learning based algorithm development activities in autonomous driving systems. He has over 7 years of industry experience in computer vision, deep learning, raster image processing and document analysis. He has authored 13 peer reviewed publications and 21 patents (US and German) including 17 grants. He is a member of the Irish Pattern Recognition and Classification Society (IPRCS), a member body of the International Association for Pattern Recognition (IAPR). He is one of our prestigious alumni too, batch of 2013, CSE, NiT.

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## Webinar on "Introduction to 5G"

Department of Computer Application, Narula Institute of Technology has organized a webinar on "Introduction to 5G" on 21st November, 2020 from 3 PM onwards.

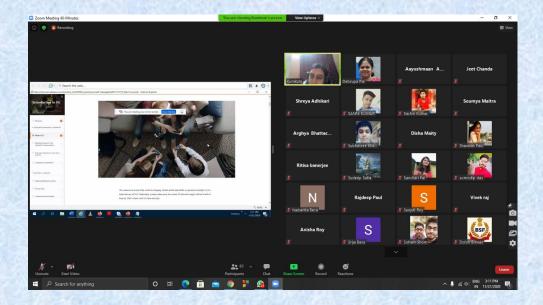
The session was facilitated by MCA 2007 passed alumni Ms. Kumkum Baidya, Senior Software Engineer .Ericsson India Pvt.Ltd.

Topics covered in the session are:

Remote Robotics
Enhanced mobile broadband
IOT
5G core network
Cellular IOT requirement
Introduction to critical IOT
Massive IOT use case diversity
Network slicing
Different 5G RANs

Around 95 students and all the departmental faculty members participated in the session. The session was very interesting. All the participants enjoyed and interacted throughout the session. It was coordinated by Ms Debrupa Pal, Assistant Professor of CA Department along with Ms Subhasree Bhattacharjee, Assistant Professor, CA department.

Please find herewith the attached link and screenshots of the webinar. https://youtu.be/0oGTqrqRIOk



## Webinar on "Digital Transformation and Cloud Management Issues"

The Department of Computer Application, Narula Institute of Technology has organized a webinar on "Digital Transformation and Cloud Management Issues during COVID Pandemic" on 7th November, 2020 from 3 PM onwards.

The session was facilitated by an eminent academician Dr. Madhu Agnihotri, Assistant Professor and HOD, Department of Information Technology, Commerce, St Xaviers College Autonomous Kolkata.

Topics covered in the session are:

Digital Transformation process and Cloud

Role of Cybersecurity in digital transformation initiative

Significant Features of Cloud computing.

Structure of Cloud computing.

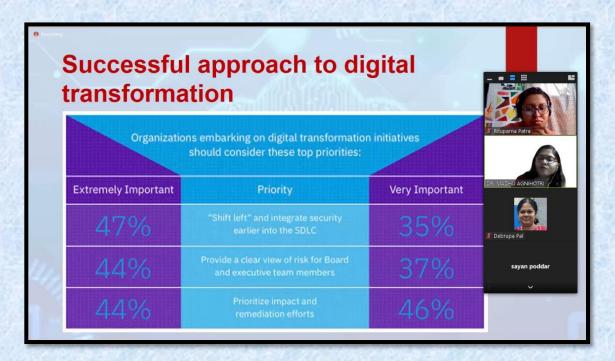
Different service models

Cloud data security issues

Around 80 students and all the departmental faculty members participated in the session. The session was very interesting. All the participants enjoyed and interacted throughout the session. It was coordinated by Ms Debrupa Pal Assistant Professor of CA Department along with Ms Rupa Saha, Assistant Professor & TIC, CA department.

Please find herewith the attached link and screenshots of the webinar.

https://youtu.be/\_84aTfe8JWY

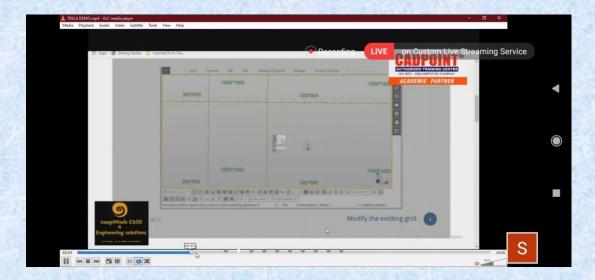


## Webinar on "Structural Detailing Using TEKLA Software (II)"

The department of Civil Engineering of Narula institute of technology has organized a webinar on'Structural Detailing Using TEKLA Software (II) ' on 20th October, 2020 from 4 PM onwards. The Guest Speaker of the webinar was Sri Shomo Banerjee, Co-Founder of " Imagiminds Cadd & Engineering Solutions, A CADPOINT AUTHORIZED Training Institute.

In this session Sri Shomo Banerjee, enlightened about TEKLA software, the main highlights of the discussion are as below.

- Tekla Structures for construction management is an information-model-based software solution that supports contractors, sub-contractors, and project management professionals by helping them to centralize and visualize project data. Scheduling and cost estimation and control can be carried out by an effective communication and decision-making process that results from managing the fragmented nature of both project planning and performance data. Tekla Structures can process large amounts of model and non-model data regardless of the source. The software can be used to leverage the critical transfer of design information and planning data between design and construction teams. This clarifies communication and decision-making throughout the design, construction, and site management phases of a building project.
- Managing the fragmented project planning and performance data is a challenge in streamlining the delivery process of construction organizations. Tekla Structures software helps to plan, communicate, and manage project information and thereby effectively supports Building Information Modeling (BIM). The Tekla model can be used to store all the structural data from preconstruction, construction planning through to site management and to monitor performance from design to supply and installation. Around 50 participants from 2nd, 3rd & 4th year B.Tech and Diploma along with faculty members of CE Department had participated and enquired about various queries related to this topic.



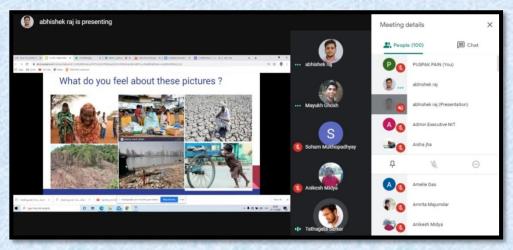
## Workshop on "Social Entrepreneurship"

The NSS UNIT of Narula Institute of Technology has organized a Digital Workshop on "Social Entrepreneurship" on 17th Oct 2020 from 2:00PM to 4:00PM over Google Meet platform. The resource person was Mr. Abhishek Ranjan from Mahatma Gandhi National Council of Rural Education (MGNCRE), Higher Education Department, Ministry of Education-Govt of India. The speaker shared his thoughts and requirements for social entrepreneurship. He discussed many social issues and solutions and lessons for walking the tightrope between social welfare and entrepreneurship. The session was indeed very motivating and informative and all the participants enjoyed and interacted with the speaker throughout the session. The speaker opens a new dimension for the new generation of students to become a social Entrepreneur .

Around 150 participants including students, faculty and staff members attended the session.

The session was coordinated by Dr Nikhilesh Sil, Convener and Ms. Debrupa Pal,Member-NSS Unit. Few screenshots along with the flyer are attached herewith for reference.





## **International webinar on "SUSTAINABLE CITY"**

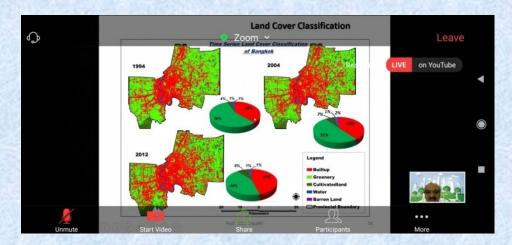
The Department of Civil Engineering of Narula Institute of Technology has organized an International webinar on 'SUSTAINABLE CITY' on 10th October,2020 from 12.00 PM onwards. The Guest Speaker of the webinar was Prof. Dr. Nitin Kumar Tripathi, Professor and Director of Special Degree Program in Asisn Institute of Technology, Bangkok.

The session began with a briefing by Prof. Dr.Biman Mukherjee, HoD-Civil Engineering-NiT, on the present scenario on sustainability and how to achieve it. There after rof. Dr. Nitin Kumar Tripathi took the lead and explained all aspects of sustainability.

The followings key points were discussed:

- Numerous challenges threaten the ability of cities to become viable pillars
  of sustainable development. Unequal access to, and inefficient use of, public services, as well as
  financial fragility and the harm inflicted by natural hazards, demand an integrated and coordinated
  response at the local, national and international levels.
- The predominance of small- and medium-sized cities provides an opportunity to invest in green infrastructures, bypassing old energy technologies, and in social development, before social inequities become unsustainable.
- Rural development is critical for an integrated approach to sustainability and for reducing poverty.
   Ensuring wider and inclusive access to public services can reduce rural/urban inequalities, disaster risk and food insecurity, as well as strengthen networks between cities and villages.
- Building sustainable cities requires investment in (a) renewable energy sources, (b) efficiency in the use of water and electricity, (c) design and implementation of compact cities, (d) retrofitting of buildings and increase of green areas, (e) fast, reliable and affordable public transportation and (f) improved waste and recycling systems. Cities in poor countries need resources to support green technology transfer, and capacity development, and to improve access to soundly constructed housing, water and sanitation, electricity, health and education.

Around 70 participants including students and faculties from different departments participated. The webinar was very motivating and enlightening for all the participants.

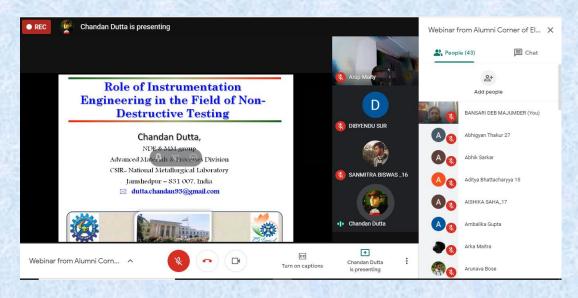


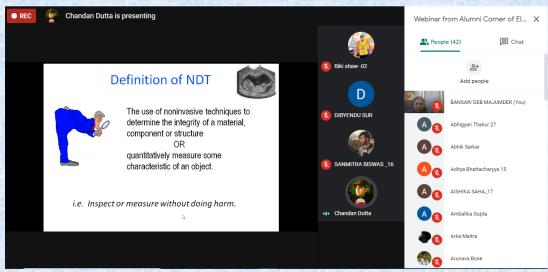
#### Webinar on "Role of Instrumentation Engineers in the field of Non-Destructive Testing"

The Electronics and Instrumentation Engineering Dept. (EIE) of Narula Institute of Technology has conducted a Webinar on "Role of Instrumentation Engineers in the field of Non Destructive Testing" on the 10th October 2020 from 11 AM to 12:30 PM.

Mr. Chandan Dutta, Alumni of the EIE Dept,NiT was the speaker of the session. He is presently working as a Senior Research Fellow in CSIR Metallurgical Laboratory of Jamshedpur. He has got four patients at his stake and has immense success in the research domain.

Mr. Dutta has explained the analytical instrumentations and the Non-destructive testing types of equipment presently used in R&D fields. He has also emphasized on the Strategy of preparation for GATE examinations and the scope of Instrumentation Engineering in the research field and higher studies. The students of the 2nd and 3rd year have participated in the webinar and a total of 50 students have attended.



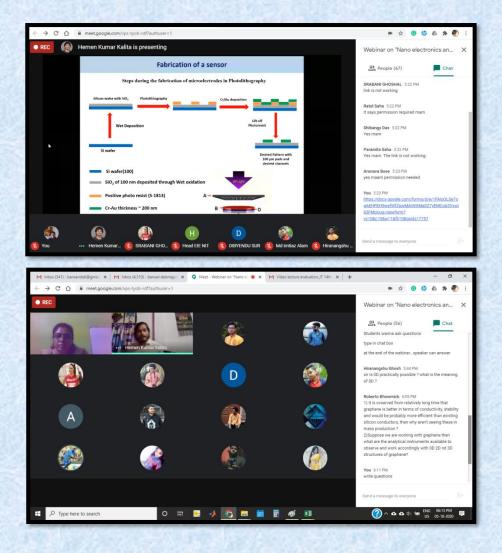


## Webinar on "Nanoelectronics and Nano-sensors"

The Electronics and Instrumentation Engineering Department (EIE) of Narula Institute of Technology has conducted a Webinar on "Nanoelectronics and Nano-sensors" on 5th October 2020 from 5PM-6:30PM.

The eminent speaker of the webinar was Dr. Hemen Kumar Kalita. He is a very renowned speaker in the field of Nano-sensors and has achieved a doctoral degree from IIT Bombay on Nano-sensors. Presently Dr. Kalita is associated with Guahati University, Assam.

The talk was very interesting and informative for the students. The students were mesmerized when he introduced the GRAPHENE and its Advantages over semiconductor devices. The webinar was attended by 72 students of the EIE Dept. He has introduced application-oriented NANO-SENSORS, NANO-BOTS, etc to the students. He has explained about the fabrication process of the Graphene. The chatbox of the Google meet portal was flooded by quality questions from the students.



## Webinar on "Building Information Modelling (BIM) Using REVIT Software"

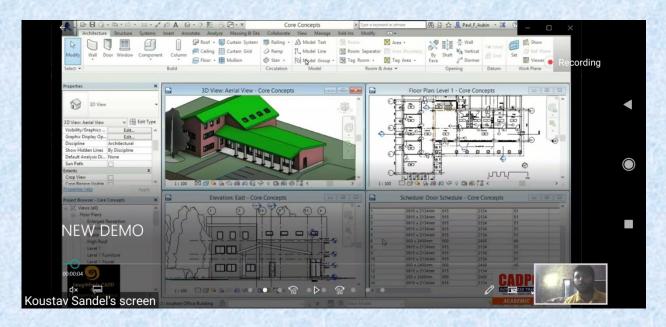
The Department of Civil Engineering of Narula institute of technology has organized a webinar on Building Information Modelling (BIM) Using REVIT Software' on 3rd October, 2020 from 4pm onwards.

The Guest Speaker of the webinar was Shri Koutav Sandel, Founder of "Imagiminds Cadd & Engineering Solutions, A CADPOINT AUTHORIZED Training Institute.

In this session Mr. Sandel, enlightened about Revit BIM software, the main highlights of the discussion are as below.

- It is a digital design software package. It allows to create models and drawings, with a focus on the core tenets of building information modelling.
- As such, Revit is a design software package. Most architects and engineers have used such packages before, which means the basics of the Revit software should feel familiar for most of the people. The real difference is that Revit places more of a focus on the architectural sector. Where packages like Maya and 3DS Max offer general model design functionality, Revit caters to the specific needs of architects and engineers. Of course, the software also incorporates BIM.
- The relationship between 2D and 3D drawings is a key element in Revit. Other digital design software packages require to create these drawings separately.
- The Revit BIM software resolves this issue through the relationship it creates between 2D and 3D drawing He also demonstrated a hands on practice on REVIT.

Around 50 participants from 2nd, 3rd & 4th year B.Tech along with faculty members of CE Department had participated and enquired about various queries related to this topic.



## NCSTCS 2K20

In this age of the new normal due to the global pandemic situation, Basic Science and Humanities Department of Narula Institute of Technology organized a two-days online 3rd "National conference on Science, Technology and Communication Skills (NCSTCS 2K20)", during 25-26 September, 2020 using Zoom platform. The focus of the conference was to bring the scientific fraternity at one platform after this lockdown situation throughout the world and also to boost the research work. More than 50 papers from Science, Technology and communication skills were presented orally by the researchers of different institutions of the state and outside the state and there were four Plenary sessions by the different invited experts of different fields of science, technology and humanity.

The program was inaugurated with a highly motivating and enlightening speech by honorable Principal, Prof. (Dr.) M. R. Kanjilal, who also welcomed all the respected dignitaries and participants and emphasized the benefits of a National Conference after this pandemic situation. Prof. (Dr.) S. C. Konar, Dean (R&D) briefly explained the necessity of organizing this conference and also declared the conference open. Prof. (Dr.) P. K. Banerjee, Advisor, NiT enlightened the importance of multidisciplinary research in the present situation through this type of conference.

Dr. Sumit Nandi, Programme coordinator and HOD of Basic Science and Humanities explained elaborately the need and exposures of the National Conference along with the student's encouragement for participation in this conference. Ms. Nidhi Singh, Registrar, NiT discussed the impact of this type of conference and its benefit in the future innovative research areas.

The inauguration ceremony was graced by all the HODs, faculty,staff members and students along with all the other dignitaries'. It ended with a vote of thanks by Dr. Sarbani Ganguly, Convener, NCSTCS 2K20.



## Webinar on "Role of Engineers in Make in India - The Talk Show"

The Department of Mechanical Engineering of Narula Institute of Technology organised a weeklong webinar Program titled "Role of Engineers in Make in India" - The Talk Show from 17th - 21st August, 2020 on Google Meet platform.

Various eminent speakers from the industry and academics added lustre to the weeklong event such as:

Prof. (Dr.) Goutam Sutradhar, Director, NIT, Manipur, Professor (On-lien) ME Dept. Jadavpur University,

Prof. (Dr.) Dipankar Sanyal, Professor, ME Department, Jadavpur University,

Prof. (Dr.) Subhasis Bhaumik, Dean, Research & Consultancy, Professor, Aerospace Engineering and Applied Mechanics, IIEST, Shibpur,

Mr. Arijit Bhattacharyya, Founder & CEO Virtual Infocom Angel Investor, Mentor, Technologist, Speaker, Adviser.

Prof. (Dr.) Santanu Das, Head & Professor, Department of Mechanical Engineering Kalyani Government Engineering College,

Mr. Tapas Piplai, Ex- Senior Vice President & Business Head, Lucas TVS Limited Ex- Executive Vice President, Kent RO Ltd. Chief Business

Advisor, ATA Informatics, Kolkata

Mr. Kanu Gopal Pilsima, GM, Design & Engineering, Electrosteel Castings Ltd. Kolkata.

The inaugural program were graced by

Prof. (Dr.) Maitreyi Ray Kanjilal, Hon'ble Principal, NIT,

Prof. (Dr.) Salil K. Sanyal, Professor, ECE, NIT,

Prof. Dr. S. C Konar, Dean, R&D, NIT and

Ms. Nidhi Singh, Registrar, NIT.

The program began with a Welcome Address by Prof. (Dr.) Maitreyi Ray Kanjilal and Introduction to Speakers by Dr. Sumit Chabri, HOD, ME &

Convener. Around 172 participants attended the program including students, faculty and staff members.

The participants were enriched on various topics like "The Make in India concept and its significance. Topics on Mechatronics, Automation and Robotics, Manufacturing Technology along with The impact of Make in India in the corporate sector. The emergence of newer technology and its boom was also explained.

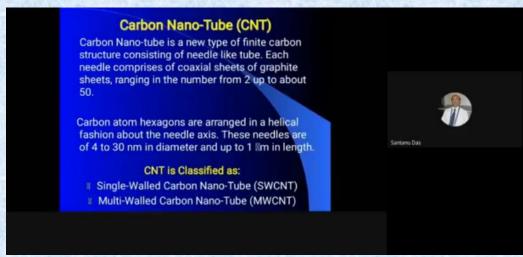
The program ended with a vote of thanks by Dr. Sumit Chabri, HOD, ME & Convener.



National Development refers to the ability of a country to improve the social welfare of the people by providing social amenities like good education, infrastructure, medical care and social services.

The role of Engineer in national development refers to the application of the knowledge of the mathematical and natural sciences, gained by study, experience, and practice in the provision of social amenities like good education, infrastructure, medical care and social services.





## Webinar on "Managing Intellectual Property during Covid-19"

The MHRD IIC Council of Narula Institute of Technology has organized a webinar titled "Managing Intellectual Property during Covid-19" on 30<sup>th</sup> July, 2020 from 4:00 PM to 5:30 PM over Zoom platform. The programme was coordinated by Dr. Sandhya Pattatnayak, Assistant Professor, ECE & Convenor of MHRD IIC Council along with Dr. Rupa Bhattacharyya, Assistant Professor, BS & HU, member of MHRD IIC Council.

The session was inaugurated by Ms.Nidhi Singh, Registrar,NiT and felicitated by Prof. (Dr.) Samir Chandra Das, System Manager & In-charge, BCW Cell University of Calcutta, Kolkata. Dr. Rupa Bhattacharyya introduced the speaker of the session.

Prof.Das shared his experience and enlightened the faculty members and the students regarding the different ideas of Managing Intellectual Property during Covid-19. His session and explanation was really overwhelming which cultivated great interest in the minds of the students and was appreciated by them. His

presentation was an engrossing experience for all followed by an excellent doubt clearing session. A virtual memento was also presented to the speaker.

Total 56 participants attended the webinar and it was a great learning experience for all the participants. The MHRD IIC Council of Narula Institute of Technology along with our students are looking forward to organising such webinars in future to improve our skills and to develop the knowledge in this field.

The session came to an end by the vote of thanks by Ms. Punita Gaba, Executive Administration, Narula Institute of Technology, member of MHRD IIC Council.

Video Link: https://drive.google.com/file/d/1bmfOJT-mSsrMzLAF5T92DPhxZk6RWYUq/view?usp=sharing



## **Alumni Report**

## Nostalgia 2020 - 7th Alumni Meet

We are delighted to have organized a wonderful and memorable 7th Alumni meet-Nostalgia, 2020 at Narula Institute of Technology on 26th December, 2020 from 7 PM onwards on the Zoom platform. The alumni meet is conducted in order to reconnect with the alumni even during this pandemic.

The function commenced with the welcome address by our honourable Principal- Prof.(Dr.) M.R Kanjilal and Registrar-Ms.Nidhi Singh followed by the virtual Lighting of Lamp and Cake Cutting. The event was hosted by Ms. Sagarika Chowdhury, Precedent -Alumni Association and Asst. Prof. CSE Department and co hosted by our students-Shubham Saurabh(CE), Nilormee Sarkar(ECE), Priyanka Nandy(CSE) and Debpuja Dhar(IT). Ms Chowdhury welcomed all the participants and the alumni for responding to the invitation from college and being present for the alumni meet in spite of their busy schedule. The Alumni Association portal was also inaugurated and demonstrated at this meet.

The event was glittered by cultural performances done by our students and alumni and the live cooking & Mime Act by our alumni was the highlight of the event. Throughout the meet, all the faculty members and alumni were enchanted with so many memories. It was a life cheering as well as nostalgic moment for them as they met the faculty members as well as their colleagues after a long time on an online platform. The meet went about two and half hours as all of them have shared about their life experiences. More than 200 alumni from different parts of India and abroad participated through the virtual platform.Mr. Abhijit Ghosh, Secretary-Alumni Association presented the vote of thanks.

The FB Link along with some snapshots of the gala event is attached herewith

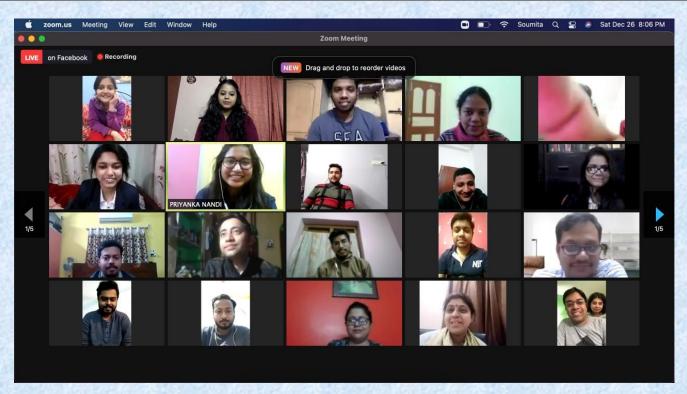
https://fb.watch/2I004zXy7c/

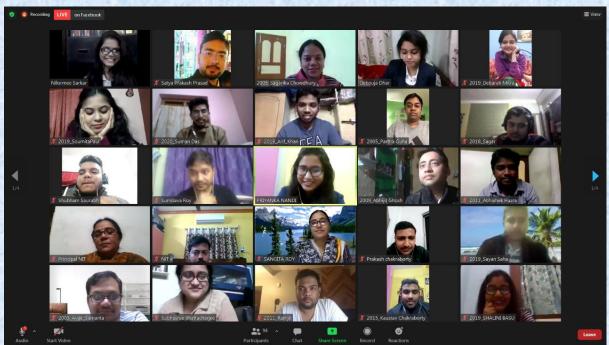
# Trip down the Memory Lang





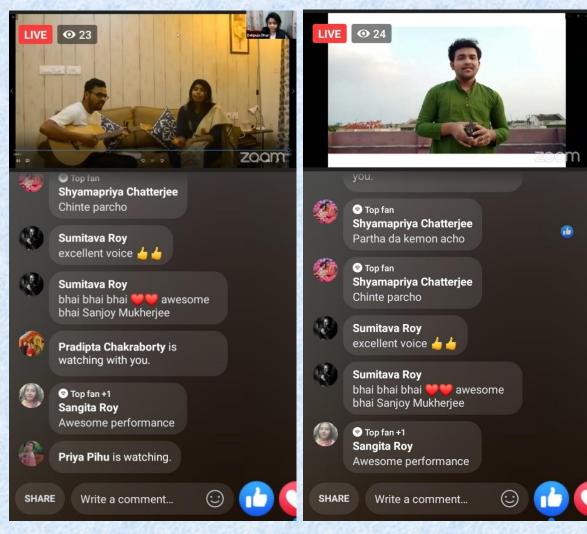






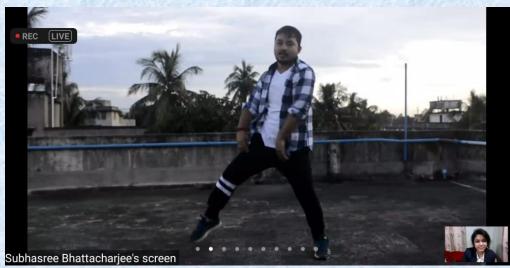
























The Meet ended with a sweet hope of Meeting again with Alumni next year. NiT looks forward for a greater partnership with the Alumni in the days to come.

# CHAPTER 3 <u>INFRASTRUCTURE</u>

## **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.

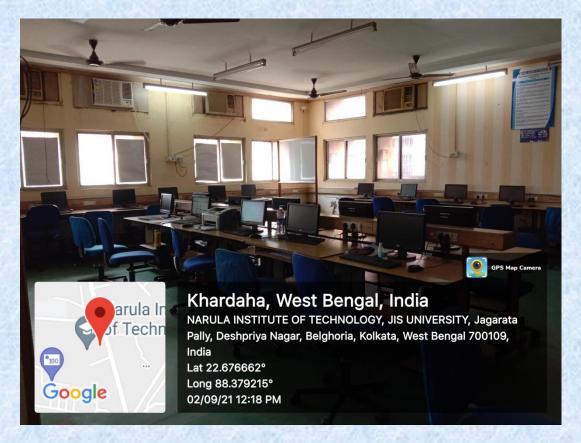
Classrooms for Theory/Tutorial Classes: The institute has 52 ICT-enabled ergonomically designed classrooms each with proper ventilation and reverberation free ambience for smooth conduction of theory classes. Additionally, there are also adequate numbers of tutorial rooms to cater to the special needs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



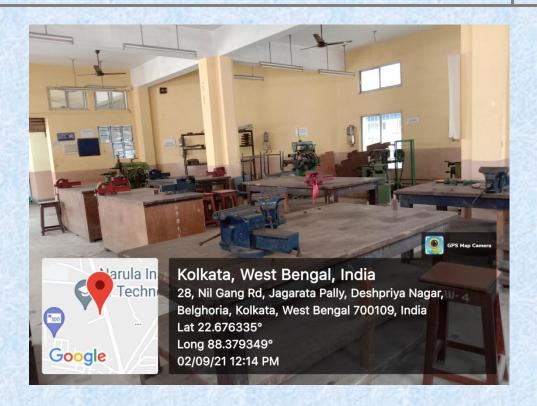
**Laboratory & Computing Facilities:** Adhering to the specifications as laid down by the regulatory body, the institute always makes sincere endeavours to ensure quality of all of its UG and PG laboratories (including research laboratories). All the laboratories including workshops are equipped with 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 11<sup>th</sup> 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	
Document Type	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	
1 eai	Title	Volume
2020-2021	54	935

## **Library Transaction**

Academic Year	<b>Teaching Days</b>	<b>Total Transaction</b>	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.

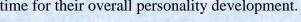
### Mobile Library Facility

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, Agarpara Kol 114	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

## **MEDICAL CENTRE**

- The institute has an exclusive medical centre equipped with all facilities for providing firstaid 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

# **Teaching Learning Process**

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 Calendar for Session 2020-21**

"Academic Calendar" contains key dates important to all student and faculty of the Institution including the start and end dates of classes, holidays, exam dates, Registration dates (for regular and repeater courses) etc. Academic Calendar for all programs was released by the office of the Principal. An academic year in the Institute comprises of two semesters, i.e. ODD and EVEN semesters.

#### **UG** Examination and Result Publication Schedule:

Semester	Date of End of Exam	Date of Declaration of Result
ODD (For 3 <sup>rd</sup> , 5 <sup>th</sup> , 7 <sup>th</sup> Semester)	16/01/2021	30/01/2021
ODD ( For 1 <sup>st</sup> Semester)	01/04/2021	19/04/2021
EVEN (For 4 <sup>th</sup> , 6 <sup>th</sup> , 8 <sup>th</sup> , Semester)	12/06/2021	23/06/2021
EVEN (2 <sup>nd</sup> Semester)	31/07/2021	12/08/2021

## PG Examination and Result Publication Schedule:

Semester	Date of End of Exam	Date of Declaration of Result
ODD (Other than First Semester)	16/01/2021	30/01/2021
ODD (First Semester)	01/04/2021	19/04/2021
EVEN (Other than Second Semester)	12/06/2021	23/06/2021
EVEN (Second Semester)	31/07/2021	12/08/2021

## **Examination Compliance Report:**

Based on the Academic Calendar of the institute, the department of COE prepares the Examination Calendar. It contains the dates for all examinations and related activities such as appointment of paper-setters and moderators, question paper formatting, appointment of examiners and Head Examiners, answer script distribution and collection, Result processing & Result Publication. All examination activities complied with the schedule of examination calendar given below.

Sl. No.	Description of Activity Other than 1st Semester	Odd Semester	
		Schedule	Compliance
1	Examination Committee meeting of Slot Test 1	13/10/2020	13/10/2020
2	Notification for Slot Test 1	15/10/2020	15/10/2020
3	Submission of marks of Slot Test 1	17/11/2020	17/11/2020
4	Request for Nomination of Paper-setters & Moderators	20/10/2020	20/10/2020
5	Examination Committee meeting for Slot Test 2 for other than first semester.	21/11/2020	21/10/2020
6	Notification for Slot Test 2	21/11/2020	21/11/2020
7	Issue of Appointment letters to Paper-setters	01/12/2020	02/12/2020
	Examination Committee meeting for Semester	02/12/2020	02/12/2020

Sl. No.	Description of Activity Other than 1st Semester	Odd So	emester	
<b>51.</b> 140.	Description of receivity other than 1 Semester	Schedule	Compliance	
	Examination			
8	Issue of Appointment letters to Moderators	15/12/2020	15/12/2020	
9	Notification for Form fill-up for semester examination	04/12/2020	04/12/2020	
10	Publication of Examination Schedule	15/12/2020	16/12/2020	
11	Submission of marks of Slot Test 2 for	24/12/2020	24/12/2020	
12	Notice for Submission of Internal Marks in online portal	04/01/2021	04/01/2021	
13	Request for Nomination of Examiner and Head Examiner from Departments	06/01/2021	06/01/2021	
14	Submission of Examiner and Head Examiner mapping for online system	11/01/2021	11/01/2021	
15	Coordinate digital evaluation of Answer scripts by Examiners and 10% re-evaluation by Head Examiners	18/01/2021	18/01/2021	
16	Coordinate Completion of Result Processing	27/01/2021	27/01/2021	
17	Meeting of Examination Committee to discuss the results	30/01/2021	30/01/2021	
18	Publication of Results	30/01/2021	30/01/2021	
19	Notice for Review applications	30/01/2021	30/01/2021	
20	Submission of approved Review applications from students for online system	16/02/2021	16/02/2021	
21	Coordination of Re-evaluation of Answer scripts	23/02/2021	23/02/2021	
22	Publication of Review Results	01/03/2021	01/03/2021	

Sl. No.	Description of Activity for First Semester	Odd Semester	
SI. NO.	Description of Activity for First Semester	Schedule	Compliance
1	Examination Committee meeting of Slot Test 1	15/02/2021	15/02/2021
2	Notification for Slot Test 1	15/02/2021	15/02/2021
3	Submission of marks of Slot Test 1	09/03/2021	09/03/2021
4	Request for Nomination of Paper-setters & Moderators	10/03/2021	10/03/2021
5	Issue of Appointment letters to Paper-setters	13/03/2021	13/03/2021
6	Examination Committee meeting for Semester Examination	15/02/2021	15/02/2021
7	Issue of Appointment letters to Moderators	17/03/2021	17/03/2021
8	Notification for Form fill-up for semester examination	16/02/2021	16/02/2021
9	Publication of Examination Schedule	05/03/2021	05/03/2021
11	Notice for Submission of Internal Marks in online portal	17/03/2021	17/03/2021
12	Request for Nomination of Examiner and Head Examiner from Departments	19/03/2021	19/03/2021
13	Submission of Examiner and Head Examiner mapping for online system	24/03/2021	24/03/2021
14	Coordinate digital evaluation of Answer scripts by Examiners and 10% re-evaluation by Head Examiners	27/03/2021	27/03/2021
15	Coordinate Completion of Result Processing	10/04/2021	10/04/2021
16	Meeting of Examination Committee to discuss the	13/04/2021	13/04/2021

Sl. No.	Description of Activity for First Semester	Odd Semester	nester
		Schedule	Compliance
	results		
17	Publication of Results	13/04/2021	13/04/2021
18	Notice for Review applications for other than first semester.	13/04/2021	13/04/2021
19	Submission of approved Review applications from students for online system for other than first semester.	21/04/2021	21/04/2021
20	Coordination of Re-evaluation of Answer scripts for other than first semester.	26/04/2021	26/04/2021
21	Publication of Review Results for other than first semester.	28/04/2021	28/04/2021

Sl. No.	Description of Activity Other than 2 <sup>nd</sup> Semester	Even Semester	
		Schedule	Compliance
1	Examination Committee meeting of Slot Test 1	24/02/2021	24/02/2021
2	Notification for Slot Test 1	24/02/2021	26/02/2021
3	Submission of marks of Slot Test 1	13/04/2021	13/04/2021
4	Examination Committee meeting for Slot Test 2	16/04/2021	16/04/2021
5	Notification for Slot Test 2	16/04/2021	16/04/2021
6	Request for Nomination of Paper-setters & Moderators	22/04/2021	22/04/2021
7	Examination Committee meeting for Semester Examination	10/05/2021	10/05/2021

Sl. No.	Description of Activity Other than 2 <sup>nd</sup> Semester	Even Semester	
		Schedule	Compliance
8	Issue of Appointment letters to Paper-setters	10/05/2021	10/05/2021
9	Notification for Form fill-up for semester examination for Regular & Backlog	13/05/2021	13/05/2021
10	Submission of marks of Slot Test 2	24/05/2021	24/05/2021
11	Issue of Appointment letters to Moderators	17/05/2021	17/05/2021
12	Publication of Examination Schedule	22/05/2021	22/05/2021
13	Notice for Submission of Internal Marks in online portal	31/05/2021	31/05/2021
14	Request for Nomination of Examiner and Head Examiner from Departments	03/06/2021	03/06/2021
15	Submission of Examiner and Head Examiner mapping for online system	10/06/2021	10/06/2021
16	Coordinate digital evaluation of Answer scripts by Examiners and 10% re-evaluation by Head Examiners	14/06/2021	14/06/2021
17	Coordinate Completion of Result Processing	21/06/2021	21/06/2021
18	Meeting of Examination Committee to discuss the results	23/06/2021	23/06/2021
19	Publication of Results	23/06/2021	23/06/2021
20	Notice for Review applications	28/06/2021	28/06/2021
21	Submission of approved Review applications from students for online system	05/07/2021	05/07/2021
22	Coordination of Re-evaluation of Answer scripts	10/07/2021	10/07/2021
23	Publication of Review Results	12/07/2021	12/07/2021

Sl. No.	Description of Activity for 2 <sup>nd</sup> Semester	Even Semester	
		Schedule	Compliance
1	Examination Committee meeting of Slot Test 1	24/04/2021	24/04/2021
2	Notification for Slot Test 1	24/04/2021	24/04/2021
3	Submission of marks of Slot Test 1	20/05/2021	20/05/2021
4	Examination Committee meeting for Slot Test 2	29/05/2021	29/05/2021
5	Notification for Slot Test 2	29/05/2021	29/05/2021
6	Request for Nomination of Paper-setters & Moderators	28/06/2021	28/06/2021
7	Examination Committee meeting for Semester Examination	16/06/2021	16/06/2021
8	Issue of Appointment letters to Paper-setters	01/07/2021	01/07/2021
9	Notification for Form fill-up for semester examination for Regular & Backlog	23/06/2021	23/06/2021
10	Submission of marks of Slot Test 2	24/06/2021	24/06/2021
11	Issue of Appointment letters to Moderators	12/07/2021	12/07/2021
12	Publication of Examination Schedule	30/06/2021	30/06/2021
13	Notice for Submission of Internal Marks in online portal	17/07/2021	17/07/2021
14	Request for Nomination of Examiner and Head Examiner from Departments	17/07/2021	17/07/2021
15	Submission of Examiner and Head Examiner mapping for online system	26/07/2021	26/07/2021
16	Coordinate digital evaluation of Answer scripts by Examiners and 10% re-evaluation by Head Examiners	02/08/2021	02/08/2021

Sl. No.	Description of Activity for 2 <sup>nd</sup> Semester	Even Semester	
		Schedule	Compliance
17	Coordinate Completion of Result Processing	10/08/2021	10/08/2021
18	Meeting of Examination Committee to discuss the results	12/08/2021	12/08/2021
19	Publication of Results	12/08/2021	12/08/2021
20	Notice for Review applications	13/08/2021	13/08/2021
21	Submission of approved Review applications from students for online system	18/08/2021	18/08/2021
22	Coordination of Re-evaluation of Answer scripts	21/08/2021	21/08/2021
23	Publication of Review Results	23/08/2021	23/08/2021

### **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 2020-21			
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 2020-21		
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	
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 2020-21			
Semester Examination	EVEN Semester		
Number of Rooms Allocated	NA		
Examination Sessions per day	2		
Number of Staff for monitoring	15		
Number of Supervisors	3		
Number of Internal Roving Observer per session	NA 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). Vivavoce 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 2020-21			
Description	ODD Semester	EVEN Semester	
Number of Answer scripts	14370	14340	
Number of Evaluators (External)	65	65	
Number of Head Examiners (Internal)	30	30	

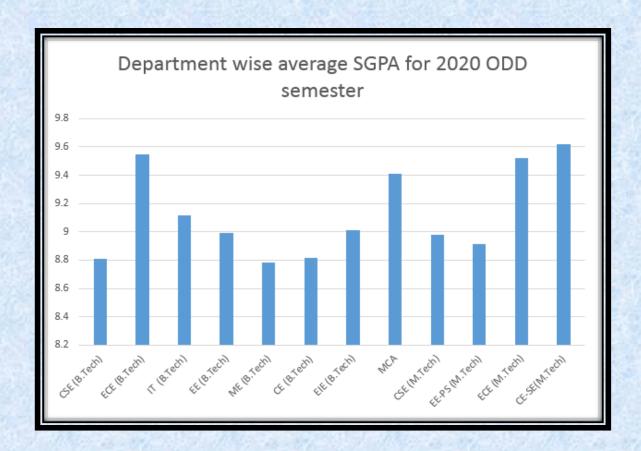
#### **Result Publication**

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.

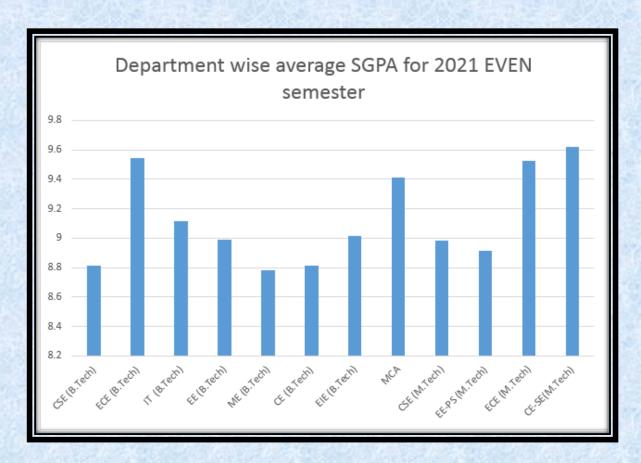
#### **Result Analysis**

Department wise SGPA analysis of ODD and EVEN semester is presented here.

The average SGPA of the college for odd semester 2020 is **8.03** 



The average SGPA of the college for even semester 2021 is **9.13.** 



Average Pass percentage of final year students:

Student Appeared	Student Passed	Pass Percentage
818	814	99.51%

#### **Grievances 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 and Development**

### **Grants Received**

**CSE** 

Principal Investigator/Co-	Project	Duration	Funding	Amount (in
investigator	Title		Agency	Rupees)
Biswajit Halder	MODROB	2020-21	AICTE	4,51,961.00

#### ECE

	Project Title	Name of PI	Funding Agency	Duration	Funding Amount (INR)	Letter date
THE RESIDENCE OF THE PARTY OF T	Electro-oculogram based wheel chair	Dr. Anilesh Dey	ESBEE Spring Manufacturing Company	2020 - 2022	6,00,000	20 August 2020
	Total= Rs.6,00,000/-					

# <u>EE</u>

Project Title	Duration	Funding Agency	Amount (in Lakh)	Govt/ Non- Govt
Increasing Energy Efficiency of DFIG	2 Years	Habbtech Technologies	3.80	Non- Govt
Advanced Wireless Power Transfer System	2 Years	Habbtech Technologies	4.00	Non- Govt
Health-Monitoring of Power Semiconductor Modules	2 Years	AG Engineering	4.50	Non- Govt
Cycle Switching without Harmonics for Industrial Power Control	2 Years	AG Engineering	3.50	Non- Govt
Development of Low-cost Switched Reluctance Motors	2 Years	AG Engineering	3.90	Non- Govt
AC Power Controller with Programmable Interface	2 Years	AG Engineering	3.00	Non- Govt
Industrial Power Consumption, Penalty Minimization using AFPC unit.	2 Years	AG Engineering	4.00	Non- Govt
医发生性 医二氏	Total (in Lac	s) 26.7	354	

# BS & HU

Project title	Duration	Funding agency	Amount (Rs in lakhs)
Analysis of the potential of oil seed meals	2 years	Jharna Chemicals	3

<u>IT</u>

Project title	Funding agency	Amount (Rs in lakhs)	Duration	Total Amount (Rs in lakhs)
Deep Learning Based Noise Reduction and Quality Enhancement of Brest Ultrasound image for early detection of cancer	Lord Buddha Koshi Medical College and Hospital	55,000/-	2019-2024	529000/-
Recommendation System in e-healthcare Scenario	ICARE Institute of Medical Sciences and Research and Dr. Bidhan Chandra Roy Hospital, Haldia	1,17,000/-	2020-2024	
Recent Advancement of Data Science	AICTE	3,57,000/-	2020-2021	

# EIE

Teacher Consultant	Consulting/Sposoring Agency	Amount(in Lakhs)	Total(in Lakhs)	Name of consultancy project/corporate training program
Bansari Deb Maumder	Habtech Technologies	3	4.23	Over current relay testing System
Susmita Das	AG Enggineering and Consultancy	1.23	4.23	Quality Analysis and maintainanceof surge protectors in electrical machines

# **CONSULTANCY BREAKUP DEPARTMENT WISE**

### CSE

ProjectTitle	Duration	FundingAgency	Amount(inRupees)
Institutional Strengthening Of Gram Panchayats Project (ISGPP – II),Panchayats & Rural Development Department, Govt. Of West Bengal (Phase one)	September 19 to October 2019	Govt. Of West Bengal	1250000.00
Soil test report and triaxial test on soil samples for bearing capacity and settlement analysis	1 month	SriconEngg. Services	61000.00
Mix Design Grade Of Concrete M25 and M-30	1 month	RoyConstruction	40000.00
Soil test report and triaxial test on soil samples for bearing capacity analysis	1month	ComtelConsultants infra projects PVTLtd.	80000.00
Soil test report and triaxial test on soil samples for bearing capacity and settlement analysis	1.5 monhs	SriconEngg. Services	175000.00
Mix Design Grade Of Concrete M25, M- 30 and M40 samples and flexural strength testing of Reinforced Concrete beams	2months	RoyConstruction	160000.00
Mix Design Grade Of Concrete M-30, M- 35 and M40	2months	ComtelConsultants infra projects PVTLtd.	58000.00
	Total Amount(Y): 18,24,000.00		

# CIVIL

Principal Investigator/Co- investigator	Name of Consultancy Project	Duration	Consulting/Sponsoring agency	Amount (in Rupees)
Biswajit Halder	Maintenance of Operating systems, internet and intranet applications	2020-2021	Habbtech Technologies	1,44,000.00

### ECE

Principal Investigator/Co- investigator	Name of Consultancy Project	Consulting/Sponsoring agency	Duration	Amou nt (in Rupe es)
Dr. Anilesh Dey	Automation, control and reliability analysis of IISER Project	M/S ESL Technologies	04/01/2021	4.3
		Т	otal: Rs.4.3	Lakhs

## EIE

Teacher Consultant	Consulting/Sposoring Agency	Amount(in Lakhs)	Total(in Lakhs)	Name of consultancy project/corporate training program
Bansari Deb Maumder	Habtech Technologies	3.35	3.35	Microcontroller based earth leakagemonitor for AC power supplies

# EE

Project Title	Duration	Funding Agency	Amount (in Lakh)			
Energy consumption estimate of forteenstoreyed Siddha building at Agarpara	1 year	Siyatech	2.60			
Testing and maintenance of API and socket	2 years	Habbtech Technologies	4.50			
Quality analysis of electrical machinery equipments	1 year	AG Engineering and Consulting	4.00			
Quality analysis of electrical and electronic machinery equipments	2 years	Habbtech Technologies	3.50			
Quality check of training services and management	1 year	Habbtech Technologies	3.00			
Senior consultant to renewable energy standards and training module preparation	2 years	RS Engineering Works	4.00			
Total Amount in Lakh						

IT

ALC: NO COLUMN	SL. NO	Name of the Faculty	CAY & Date	DETAILS OF CONSULTANCY WORK	CLIENT	AMOUNT (INR)
CANADA INCIDENT	1	Mr. Soumya Bhattacharyya	CAYm2, 09/06/2020	Developing a Portal regarding Learning Framework	Softwebsol Technologies, Kolkata	1,05,000/-

# ME

Type of Consultancy	Duration	Funding Agency	Amount(in Rupees)	Trainee(No.) /Sample(No. )	Start to End date
Surface Roughness Test on root dentin irrigated with different irrigating agents.	2 Days	Guru Nanak Institute of Dental Science & Research	15930/-	27	5 <sup>th</sup> Jan to 6 <sup>th</sup> Jan,2021
Training on Industrial Hydraulics System	1 week	Unison Engineering	99120/-	7	12 <sup>th</sup> Jan, 20 <sup>th</sup> Jan,2021

### **Journal publication 2020-2021**

### **CSE**

	Name Of the Authors	Title	Name of the Journal	Publisher	Indexed in	ISSN Number
	Utpal Garain, Biswajit Halder	Even big data is not enough: need for a novel reference modelling for forensic document authentication	International Journal on Document Analysis and Recognition (IJDAR)	Springer Berlin Heidelberg	SCI, Scopus	1433-2825
	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	Springer	SCI, Scopus	0929-6212
The state of the s	Subhram Das, Arijit Das, D. K. Bhattacharya, and D. N. Tibarewala	A new graph- theoretic approach to determine the similarity of genome sequences based on nucleotide triplets	Genomics	Elsevier	SCI, Scopus	0888-7543
A STATE OF THE PROPERTY OF THE PARTY OF THE	Subhram Das, Arijit Das, Bingshati Mondal, Nilanjan Dey, D. K. Bhattacharya, D. N. Tibarewala	Genome Sequence comparison under a new form of tri- nucleotide representation based on bio- chemical properties of nucleotides	Gene	Elsevier	SCI, Scopus	0378-1119

	No. of the last of				The State of the S	
STATE OF THE PARTY	Koushik Karmakar, Sohail Saif, Suparna Biswas, Sarmistha Neogy	A WBAN-Based Framework for Health Condition Monitoring and Faulty Sensor Node Detection Applying ANN	International Journal of Biomedical and Clinical Engineering (IJBCE)	IGI Global	UGC Care	EISSN: 2161- 1629; ISSN: 2161-1610;
THE REPORT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	Md Ashifuddin mondal, Zeenat Rehena	Road traffic Outlier Detection Technique Based on Linear Regression	Procedia Computer Science	Elsevier	Scopus	DOI:10.1016/ j.procs.2020.0 4.276
	Md Ashifuddin mondal, Zeenat Rehena	Smart parking management system with dynamic pricing	Journal of Ambient Intelligence and Smart Environments	IOS Press	SCI	1876-1372
	Shubhendu Banerjee, Sumit Kumar Singh, Avishek Chakraborty, Atanu Das, Rajib Bag	Diagnosis of Melanoma Lesion Using Neutrosophic and Deep Learning	Traitement du Signal	IIETA	SCI, Scopus	1958-5608
	Shubhendu Banerjee, Sumit Kumar Singh, Avishek Chakraborty, Atanu Das, Rajib Bag	Melanoma diagnosis using deep learning and fuzzy logic	Diagnostics	MDPI	SCI, Scopus	2075-4418
THE RESERVE OF THE PARTY OF THE	Shubhendu Banerjee, Sumit Kumar Singh, Atanu Das, Rajib Bag	Recognition of English Handwriting and Typed from Images using Tesseract on Android Platform	International Journal of Advanced Science and Technology	SERSC Australia	Scopus	2207-6360
The state of the s	Nandini Mukherjee	Pruning of Health Data in Mobile- assisted Remote Health Care	The Computer Journal, Oxford University Press	Oxford	SCI	10.1093/comj nl/bxab083
TOTAL STREET,	A. Basu, Nandini Mukherjee	Building a trust- based doctor recommendation system on top of multilayer graph	Journal of Biomedical Informatics	Elsevier	SCI	10.1016/j.jbi. 2020.103549

	database				
Arindam Sadhu, Debashis De, Maitreyi Ray Kanjilal	Area-Delay- Energy aware SRAM memory cell and M × N parallel read/write memory array design for quantum dot cellular automata	Microprocessors and Microsystems	Elsevier	SCI	https://doi.org /10.1016/j.mic pro.2019.1029 44

# <u>IT</u>

Name Of the Authors	Title	Name of the Journal	Publisher	Indexed in	ISSN Number
Soumya Bhattacharyya, Sujata Kundu, Shyamapriya Chowdhury	Secure Instant Messaging Procedure Via Untrusted Server	Journal of Applied Computer Science & Artificial Intelligence	Vol2, Issue- 12, Issue- 1	2021	ISSN: 2582- 8673
Sagnik Kar, Mousumi Saha, Tamasree Biswas	Text Polarity Detection using MultipleSupervised Machine Learning Algorithms	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	Blue Eyes Intelligence Engineering and Sciences Publication Vol-9 Issue-3	2020	ISSN: 2278- 3075 (Online)

#### **ECE**

Name of Faculty	Title of paper	Name of journal	ISSN number/DOI	Indexed in	Link to paper
Kaushik Sarkar	A Cross-Sectional Study on Central Sensitization and Autonomic Changes in Fibromyalgia	Frontiers in Neuroscience	DOI: 10.3389 /fnins.2020.00 788	Scopus & Web of Science	https://www. frontiersin.or g/articles/10. 3389/fnins.2 020.00788/fu ll
Dr.Saradindu Panda	The design, analysis, and cost estimation of a generic adder and subtractor using the layered T (LT) logic reduction methodology with a quantum_x005f-do t cellular automata based approach	Journal of Computational Electronics	https://doi.org /10.1007/s108 25-021- 01712-9	SCI & Scopus	https://doi.or g/10.1007/s1 0825-021- 01712-9
Kaushik Sarkar, Saradindu Panda, Pranab Hazra, Moupali Roy, Soumen Pal, Arpita Santra, Swati Barui, Abhijit Ghosh, Puspak Pain, Arnima Das	Utilizing Convoluted Neural Networks to predict COVID Infections in Individuals	Turkish Online Journal of Qualitative Inquiry	e-ISSN 1309- 6594	Scopus	https://www. tojqi.net/inde x.php/journal /article/view/ 1418

Mary Transfer of the Control of the			ACCOUNT OF THE PARTY OF THE PAR	St. In Proposition of the Con-	
Sandhya Pattanayak, Anilesh Dey, Saradindu Panda, Surajit Bari, Sangita Roy, Abhijit Ghosh, Puspak Pain, Arnima Das, Moupali Roy, Rimpi Datta	AI and IOT based Smart Irrigation Syetem	Turkish Online Journal of Qualitative Inquiry	e-ISSN 1309- 6591	Scopus	https://www. tojqi.net/inde x.php/journal /article/view/ 1407
SandhyaPattana yak, Kaushik Sarkar, Saradindu Panda, Pranab Hazra, Soumen Pal, Arpita Santra, Swati Barui, Abhijit Ghosh, Puspak Pain, Arnima Das	Multi-objective Cuckoo Search in Image Visibility Improvement	Turkish Online Journal of Qualitative Inquiry	e-ISSN 1309- 6592	Scopus	https://www. tojqi.net/inde x.php/journal /article/down load/1360/66 8/1504
Arpita Santra, Swati Barui, Sangita Roy, Abhijit Ghosh, Sandhya Pattanayak, Puspak Pain, Arnima Das, Moupali Roy, Rimpi Datta	Detection of word boundary in Bengali colloquial speech based on pitch profile and Convolutional Neural Network	Turkish Online Journal of Qualitative Inquiry	e-ISSN 1309- 6593	Scopus	https://www. tojqi.net/inde x.php/journal /article/view/ 1368
Moupali Roy, Rimpi Datta, Abhijit Ghosh and Arnima Das, Puspak Pain	Design Of Smart Garbage Disposal And Collection System	JETIR Journal	(ISSN-2349- 5162)	Refeered Journal	http://www.j etir.org/pape rs/JETIR210 6800.pdf

Rimpi Datta, Puspak Pain, Arnima Das, Saradindu Panda	Highly Precise Wire Feeder & Cutter Machine with Stepper Motor Using Atmega32 Microcontroller	JETIR Journal	ISSN-2349- 5162	Refeered Journal	https://www. jetir.org/pape rs/JETIR210 6706.pdf
Abhijit Ghosh, Sangita Roy, Swati Barui, Arpita Santra, Soumen Pal, Sandhya Pattanayak	Heteroscedasticity and Data Smoothing	JETIR Journal	eISSN: 2349- 5162	Refeered Journal	https://www. jetir.org/vie w?paper=JE TIR2106704
Sangita Roy Swati Barui, Arpita SantraSoumen Pal, Sangita Roy and Sandhya Pattanayak	Study Of Basic Radio Network Controller Networking System Using Qualnet Software	IJRSR journal	DOI: http://d x.doi.org/10.2 4327/ijrsr.202 1.1206.6021	Refeered Journal	https://www. recentscientif ic.com/sites/ default/files/ 17879-A- 2021.pdf
Moupali Roy, Sangita Roy, Pranab Hazra, Surajit Bari, Kaushik Sarkar, Anilesh Dey	Parametric Evaluation of Guided Image Filter with Window Size	JETIR Journal	eISSN: 2349- 5162	Refeered Journal	https://www. jetir.org/vie w?paper=JE TIR2106705
Pranab Hazra, Surajit Bari, Kaushik Sarkar, Anilesh Dey, Saradindu Panda	Agglomeration Of Arsenic Link To Rain Water Harvesting In West Bengal Considering Population As Function	JETIR Journal	ISSN : 2349- 5162	Refeered Journal	https://www. jetir.org/vie w?paper=JE TIR2106609

Sangita Roy	Pothole and object detection with respect to the speed of a vehicle using sensors in Arduino UNO board	IJARIIT, Paper ID: V7I3-1369 (v7i3- 1470)	ISSN: 2454- 132X	Refeered Journal	https://www. ijariit.com/m anuscript/pot hole-and- object- detection- with-respect- to-the-speed- of-a-vehicle- using- sensors-in- arduino-uno- board/
Arnima Das, Swati Barui	Alarm switch for security	IJARIIT	ISSN 2454- 132X	Refeered Journal	https://www. ijariit.com/m anuscripts/v7 i3/V7I3- 1432.pdf
Dr.Surajit Bari	Estimation of Power and Delay of CMOS Phase Detector and Phase-Frequency Detector Using Nano Dimensional MOS Transistor	IEEE	DOI: 10.1109 /VLSIDCS47 293.2020.917 9921	Scopus	https://ieeexp lore.ieee.org/ document/91 79921
Swati Barui, Arnima Das	Study of the MOSFET Parameters Effect on Drain and Transfer Characteristics	IRJET Journal	2395-0056	Refeered Journal	https://www. irjet.net/archi ves/V8/i5/IR JET- V8I5748.pdf

Sangita Roy, Anilesh Dey, Surajit Bari, Moupali Roy, Rimpi Datta	Multi-objective Cuckoo Search in Image Visibility Improvement	Turkish Online Journal of Qualitative Inquiry	e-ISSN 1309- 6592	Scopus	https://www. tojqi.net/inde x.php/journal /article/down load/1360/66 8/1504
Dr.Saradindu Panda	Intensification And Optical Penetration In Plasmonic Thin Film Solar Cell By Nano Particle On Metal Dielectric Semiconductor- Photonic Response	International Journal of Electronics and Communication Engineering and Technology Volume 12, Issue 1, 2021	ISSN Print: 0976-6464 and ISSN Online: 0976- 6472 DOI: 10.34218/IJE CET.12.1.202 1.002	Refeered Journal	https://iaeme .com/Home/ article_id/IJE CET_12_01_ 002
Sangita Roy	Design and implementation of panic alarm during disaster in extreme situations using Proteus Software	IJARIIT, Paper ID: V7I3-1369 (v7i3- 1369)	ISSN: 2454- 132X	Refeered Journal	https://www. ijariit.com/m anuscripts/v7 i3/V7I3- 1369.pdf
Sangita Roy	Management System to Minimise Loss of Data and Time Wastage in Library	IJARIIT, Paper ID: V7I3-1537	ISSN: 2454- 132X	Refeered Journal	https://www. ijariit.com/m anuscripts/v7 i3/V7I3- 1537.pdf
Anilesh Dey, Sangita Roy, Rimpi Datta, Surajit Bari, Sandhya Pattanayak	Utilizing Convoluted Neural Networks to predict COVID Infections in Individuals	Turkish Online Journal of Qualitative Inquiry	e-ISSN 1309- 6594	Scopus	https://www. tojqi.net/inde x.php/journal /article/view/ 1418

### **EIE**

Name of Faculty	Title of paper	Name of journal	ISSN number/DOI	Indexed in
Bansari Deb Majumder	Multifunctional Admittance type Sensor and it's Instrumentation for Simultaneous Measurement of Liquid level and Temperature	IEEE Transaction on Instrumentation and measurements	Print ISSN: 0018-9456	Year:2020 Early Access
Dibyendu Sur	Correlation of Disturbed Dynamo Electric Field and Thermospheric Plasma Transport with Latitudinally Diverse Total Electron Content During Recovery Phase of a Geomagnetic Storm	SSRN, Elsevier		Google Scholar
Dibyendu Sur	Response of Low Latitude Ionization Towards Intense Geomagnetic Storm in 2018	SSRN, Elsevier		Google Scholar

### <u>ME</u>

Name of the Faculty	Title of paper	Name of the Journal	Year of Publication	Citations	
Mr. Goutam Roy	Evaluation and Repair of Cracks on Statically Loaded Beams Using Piezoelectric Actuation	International Journal of Manufacturing, Materials, and Mechanical Engineering	2021	5	
Mr. Goutam Roy	Crack identification in beam-type structural elements using a piezoelectric sensor.	Nondestructive Testing and Evaluation	2020		
Dr. Sumit Chabri	Tribological characteristics of thermomechanically processed 7075 Al alloy through nano-scratch characterization	Triboindia	2020	397	
Dr. Bikash Panja	Effect of process parameters on machining EN 47 spring steel through WEDM	Engineering Materials Research	2020	132	

## **CIVIL**

Name of Author	Title of Publication	International Journal/National Journal/International Conference/ National Conference/ Book Chapter/ Book	Year of Publication	ISSN/ISBN/DOI
ARYA BANERJEEE	A case study on torsional irregularity in accordance with the latest amendment of IS 1893: part I(2016-2020)	International Resarch journal of engineering and Technology (IRJET)	2021	e-ISSN:2395-0056 p-ISSN:2395- 0072
ARYA BANERJEEE	A brief study on yhe recommendation with in the ammendment-II for IS:1893-Part-Ifor the various ireegularity concerns	International journal of creative resarch thought (IJCRT)	2021	ISSN:2320-2882
ARYA BANERJEEE	Time history analysis of a 20 storey model with dampers at different locations - A review	International resarch journal of modernijation in engineering technology and science	2021	e-ISSN:2582-5208
Prof.(Dr) Biman Mukherjee  A Comparative Revious of Seismic Behavious RC Structures Us Indian standard a Euro Standard		International Journal of All Research Education and Scientific Methods (IJARESM)	2021	ISSN: 2455-6214
Prof.(Dr) Biman Mukherjee	A Review paper on Sismic retrofitting of reinforced concrete structures by traditional and innovative techniques	International Resarch journal of engineering and Technology (IRJET)	2021	e ISSN: 2395- 0056

## BS & HU

Name of the faculty	Title of the Paper	Name of the Journal	Whether Elsevier/ Web of Science	Impact factor	Indexed in Scopus/T hompsons & Reuters	Link of the journal in Scopus/Thomps ons & Reuters index
Sumit Nandi, Rupa Bhattacharyya	Neem (Azadirachta indica A. Juss.) oil: A source of alternative fuel through enzyme technology	World Scientific News	WOS		WOS	http://www.worl dscientificnews.c om/article-in- press/2021- 2/154-2021/
Avishek Chakraborty	Different linear and non-linear form of trapezoidal neutrosophic numbers, deneutrosophication		SCI/WO S	1.025	SCI	https://www.rair o- ro.org/articles/ro/ abs/2021/01/ro19 0161/ro190161.h tml
Avishek Chakraborty	A New Exponential Operational Law for Trapezoidal Neutrosophic Number and Pollution in Megacities related MCGDM Problem	Journal of Ambient Intelligence and Humanized Computing	SCI/WO S	4.56	SCI	https://doi.org/10 .1007/s12652- 021-03223-8
Dr. Sumit Nandi, Dr. Rupa Bhattacharyya and	Asian Journal of Applied Science and Technology		WOS	4.643	WOS	DOI: +I3+I5:I8+I5:I10 +I5:I15+I3+I5:I5 :I8
Dr. Sumit Nandi and Sougata Mallick,	Indian Journal of Natural Sciences		WOS	1.233	WOS	www.tnsroindia. org.in ©IJONS ISSN: 0976 – 0997

·		P. S. Paper Co. Co.		The state of	
Dr. Sumit Nandi, Dr. Rupa Bhattacharyya	Asian Journal of Applied Science and Technology	wos	4.643	WOS	ISSN No 2456- 883X
Sumit Nandi, Rupa Bhattacharyya and Sougata Mallick	Journal of Chemical, Biological and Physical Sciences	WOS	1.933	WOS	DOI:10.24214/jc bps.A.10.4.4192
Sumit Nandi and Rupa Bhattacharyya	Journal of Environmental Science, Computer Science and Engineering & Technology	WOS	1.526	WOS	[DOI: 10.24214/jecet.A .9.4.73947]
	Neutrosophic Sets and System	SCOPUS , WOS, ESI		SCOPUS	DOI: 10.5281/zenodo. 3951684
Dr. Shilpi pal	International Journal of Operations Research	SCOPUS		SCOPUS	https://www.inde rscience.com/IJO R
	Neutrosophic Sets and System	WOS/SC OPUS/E SCI	1.739	SCOPUS/ ESCI/Tho mpsons & Reuters	http://fs.unm.edu /NSS/.
	International Journal of Operation Research	WOS/SC OPUS	0.9	SCOPUS/ Thompson s & Reuters	https://www.inde rscience.com/jho me.php?jcode=ij or
Mr. Avishek Chakraborty	I O	WOS/SC OPUS	3.791	SCI, SCOPUS/ Thompson s & Reuters	https://www.spri nger.com/journal /40747
	Neutrosophic Sets and System	WOS/SC OPUS/E SCI	1.739	SCOPUS/ ESCI/Tho mpsons & Reuters	http://fs.unm.edu /NSS/.
	Complex & Intelligent System, Springer	WOS/SC OPUS/E SCI	3.791	SCI, SCOPUS/ Thompson s & Reuters	https://www.spri nger.com/journal /40747

Neutrosophic Sets and System	WOS/SC OPUS/E SCI	1.739	SCOPUS/ ESCI/Tho mpsons & Reuters	http://fs.unm.edu /NSS/.
Diagnostics	WOS/SC OPUS/E SCI	3.12	SCI, SCOPUS/ Thompson s & Reuters	https://www.mdp i.com/journal/dia gnostic

#### **Conference publications 2020-2021**

# **CSE**

Type of Publication  (International /National)	Name of the Conference	Month of Publication	Year of Publication	Topic of Relevance
Internaltional Conference	International Conference on IoT and its Applications (ICIA), NIT Jamshedpur	Dec	2020	Healthcare
Internaltional Conference	Internet of Things Based Smart Healthcare: Intelligent and Secure Solutions Applying Machine Learning Techniques	May	2021	SNA
Internaltional Conference	Internet of Things Based Smart Healthcare: Intelligent and Secure Solutions Applying Machine Learning Techniques	May	2021	SNA
Internaltional Conference	4th International Conference on Intelligent Computing and Communication (ICICC - 2020)	June	2021	Healthcare
Internaltional Conference	4th International Conference on Intelligent Computing and Communication (ICICC - 2020)	June	2021	Healthcare
Internaltional Conference	Information and Communication Technology for Intelligent Systems (ICTIS-2020), Springer,	Sept	2020	Healthcare

# <u>IT</u>

Name of the Authors	Title	Name of the Book	Publisher	Year of Publication	ISBN/ISSN/DOI
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	2021	ISBN:978-981-16- 4034-6
Tamasree Biswas, Mousumi Saha, Debpuja Dhar	Impact of Atmospheric Features for Covid- 19 Prediction	Proceedings of 3rd ICCACCS 2020	Springer, Singapore	2021	ISBN:978-981-16- 4034-6
Sujata Kundu, Soumya Bhattacharyya, Shyamapriya Chowdhury	Women at Workplace	International Conference on The Future of Women in Technology FOWT- 2021		2021	
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		2021	
Tamasree Biswas, Suchismita Mait	Mask Detection and Alignment using Deep Learning Model	2 <sup>nd</sup> International Conference on Microelectronics, Communication Systems, Machine Learning & Internet of Things (MCMI-2021)	Springer	2021	<u>-</u>

# **ECE**

Conference Details	Name of the teacher	Title of the paper	Title of the proceedings of the conference	ISBN/ISSN number of the proceeding	Name of the publisher	Citations
2020 IEEE VLSI DEVICE CIRCUIT AND SYSTEM (VLSI DCS)	Dr.Surajit Bari	Estimation of Power and Delay of CMOS Phase Detector and Phase- Frequency Detector Using Nano Dimensional MOS Transistor	Proceedings of IEEE 2020 IEEE VLSI DEVICE CIRCUIT AND SYSTEM (VLSI DCS)	DOI: 10.1109/VL SIDCS4729 3.2020.9179 921	IEEE Xplore, Conference Proceeding s	3
Conference: 2020 IEEE Applied Signal Processing Conference (ASPCON)	Sangita Roy	Hardware Implementati on of Image Dehazing Mechanism using Verilog HDL and Parallel DCP	IEEE Xplore	http://dx.doi .org/10.110 9/ASPCON 49795.2020. 9276702	IEEE Xplore	1

Per l'appar de la company		A Proposition of the Company	The state of the s	William William	Y. Hay and All Control	
INTERNAT IONAL CONFERE NCE	Puspak Pain	Physical Proof and Simulation of Ternary Logic Gate in Ternary Quantum Dot Cellular Automata	2nd International Conference on Computational Advancement in Communication circuit and System	Print ISBN 978-981-13- 8686-2 Electronic ISBN 978-981-13- 8687-9 doi: https://doi.o rg/10.1007/ 978-981-13- 8687-9		
International Coneference	Pranab Hazra	GIS Based Rain Water Harvest Considering Population as a Function	5th International Conference on Microelectronic s, Computing & Communication Systems (MCCS-2020)		springer	
International Coneference	Dr. Anilesh Dey	Effect of Cognitive Task on the Central Nervous System	proceedings of Computational Advancement in Communication , Circuits and Systems (ICCACCS 2020)	SBN: 978- 981-16- 4035-3	springer	

NAMES OF THE OWNERS OF THE PARTY OF THE PART	International Coneference	Dr. Anilesh Dey	Face Detection and Extraction Using Viola— Jones Algorithm	proceedings of Computational Advancement in Communication , Circuits and Systems (ICCACCS 2020)	SBN: 978- 981-16- 4035-3	springer	
	International Coneference	Dr. Anilesh Dey	Brain Computer Interface: A Review	proceedings of Computational Advancement in Communication , Circuits and Systems (ICCACCS 2020)	SBN: 978- 981-16- 4035-3	springer	
OCCUPATION OF THE PROPERTY OCCUPATION OF THE PROPERTY OF THE P	International Coneference	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)	SBN: 978- 981-16- 4035-3	springer	

## <u>ME</u>

Name of the Faculty	Title of paper	Name of the conference	Year of Publication	Citations
Akhtarujjaman Srakar	Application of WS2 powder suspensionin dielectric for μ-EDM in surface modification of HSS	International Conference on Future Trends and Technological Advancement in Engineering 2020.	Proceedings published in Edition 2021 (January)	2
Soumojit Dasgupta	Influence og machining parameters on tool life and optimization in turning mild steel using high speed steel tool	International Conference on Future Trends and Technological Advancement in Engineering 2020.	Proceedings published in Edition 2021 (January)	NA
Goutam Roy	A low cost effective technique to repair open crack in Beams.	International Conference on Future Trends and Technological Advancement in Engineering 2020.	Proceedings published in Edition 2021 (January)	5
Dr. Bikash Panja	Optimization of process parameters of WEDM of titanium alloy using taguchi methodology	International Conference on Future Trends and Technological Advancement in Engineering 2020.	Proceedings published in Edition 2021 (January)	132
Arghya Gupta	An investigative analysis of MRR values obtained experimentally with MRR values determined theoritically of aluminum workpiece using carbide tool tip and to study the effect of the differences on surface roughness	International Conference on Future Trends and Technological Advancement in Engineering 2020.	Proceedings published in Edition 2021 (January)	NA

# **CIVIL**

Name of Author	Title of Publication	Type of Publication International Journal/Nation al Journal/Interna tional Conference/ National Conference/ Book Chapter/ Book	Name of the International Journal/National Journal/International Conference/ National Conference/ Book Chapter/ Book	ISSN/IS BN/DOI
ABHIPRIY A HALDER	Assesment of Liquefication potential of JIS University Building, Agarpara area in west Bengal as per IS 1893 (Part-1)-2016	International Conference	International Conference on Futute trends and Technological advancement in engineering 2020, Narula Institute of Technology, Kolkata,	Web of science
ABHIPRIY A HALDER	A Comparative Analysis on Evaluation of Liquefaction Potential from SPT and DMT/SDMT for Alluvial Soil in Newtown, Rajarhat area of Kolkata	International Conference	Second ASCE India Conference on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies" (CRSIDE2020), Kolkata	Web of science
RAJ KUMAR BANERJEE	Assesment of Liquefication potential of JIS University Building, Agarpara area in west Bengal as per IS 1893	International Conference	International Conference on Futute trends and Technological advancement in engineering 2020, Narula Institute of Technology, Kolkata,	Web of science

	(Part-1)-2016			
Abhishek Hazra	A Study on the Seismic Behavior of RCC and Steel- Concrete Composite Structure	International Conference	International Conference on Future Trends and Technological Advancement in Engineering 2020, Narula Institute of Technology, Kolkata	ISBN: 978-81- 950351- 1-3
Abhishek Hazra	Capturing Inelastic Behavior of R/C Structures in terms of Hysteresis Modelling: State of the Art	International Conference	International Conference on Future Trends and Technological Advancement in Engineering 2020, Narula Institute of Technology, Kolkata	ISBN: 978-81- 950351- 1-4
ARPITA MANDAL	A Study on the Seismic Behavior of RCC and Steel- Concrete Composite Structure	International Conference	International Conference on Future Trends and Technological Advancement in Engineering 2020, Narula Institute of Technology, Kolkata	ISBN: 978-81- 950351- 1-3

# **Book Chapter**

## **CSE**

Name of the Authors	Title	Name Of The Book	Publisher	ISBN/ISS N/DOI	LINK
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/10.10 07/978- 981-16- 4294- 4_11
Md Ashifuddin mondal, Zeenat Rehena	Common Ticketing Service in Multimodal Transportation System	Proceedings of International Conference on Advanced Computing Applications	Springer		https://lin k.springer .com/chap ter/10.100 7/978- 981-16- 5207- 3_19
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/I CIIP5303 8.2021.97 02601	https://iee explore.ie ee.org/doc ument/97 02601

# <u>IT</u>

Name of the Authors	Title	Name of the Book	Publisher	ISBN/ISSN/DOI
Shreyashree Mondal, Soumya Bhattacharyya, Puspak Pain, Sujata Kundu, Shyamapriya Chowdhury, Neha Dey, and Ankush Baran Basu	Impacts of COVID- 19: A Comprehensive Study Using Linear Regression Analysis in a Predictive Approach	Computational Advancement in Communication, Circuits and Systems, Proceedings of 3rd ICCACCS 2020	Springer Singapore	ISBN: 978-981-16- 4035-3
Avishek Chakraborty, Anwesha Mukherjee,Soumya Bhattacharyya,Sumit Kumar Singh, Debashis De, Rajkumar Buyya	Multi CriterialOffloading Decision Making in Green Mobile Cloud Computing	Green Mobile Computing	Springer Nature Switzerland AG Gewerbestrasse 11, 6330 Cham, Switzerland	ISSN: 0036-8733

# **ECE**

Name of the Faculty	Title of the book/chapters publi shed	Title of the Book	Indexed in	ISBN/ISS N number of the proceeding	Name of the publisher
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Swati Barui	Object grasping classification using K-Nearest Neighbour for enhance dexterity of robotic arm	Proceedings of International Journal of Control and Automation	scopus	ISSN: 2005-4297	Science and Engineering Research Support Society
Kaushik Sarkar	A Cross-Sectional Study on Central Sensitization and Autonomic Changes in Fibromyalgia	Frontiers in Neuro science	scopus	DOI: 10.3389/fni ns.2020.00 788	Frontiers in Neurosciences, Web of Science
Puspak Pain	A Review on Continuous Monitoring Using Geo-Fencing Technology in Manifold Post COVID Future Aspect	PROCEEDINGS OF 3rd NATIONAL CONFERENCE ON SCIENCE, TECHNOLOGY AND COMMUNICATIO N SKILLS (NCSTCS 2K20)	Peer reviewewe d	ISBN: 978- 93-89817- 42-3	Ideal International E  - PublicationPvt. Ltd.
Dr.Surajit Bari	Power Reduction Approach in VLSI Circuits through logic Restructuring and Input Pattering	Proceedings of "International Conference on Future Trends and Technological Advancement in Engineering 2020"	scopus	ISBN: 978- 81-950351- 1-3	New Delhi Publishers

Puspak Pain	Criminal Face Detection Mechanism Using Image Recognition	Proceedings of "International Conference on Future Trends and Technological Advancement in Engineering 2020"	Peer reviewewe d	ISBN: 978- 81-950351- 1-3	New Delhi Publishers
Dr.Saradindu Panda	Low Power & High- speed Memory Design using Nano MOSFETs in 22nm Technology	Proceedings of "International Conference on Future Trends and Technological Advancement in Engineering 2020"	Peer reviewewe d	ISBN: 978- 81-950351- 1-3	New Delhi Publishers
Kaushik Sarkar	Word Boundary Detection Using Convolutional Neural Network (CNN) and Decision Tree Method	Proceedings Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)		SBN: 978- 981-16- 4035-3	springer
Dr.Surajit Bari	Estimation of Power and Delay of CMOS Phase Detector and Phase-Frequency Detector Using Nano Dimensional MOS Transistor	Proceedings of IEEE 2020 IEEE VLSI DEVICE CIRCUIT AND SYSTEM (VLSI DCS)		DOI: 10.1109/V LSIDCS47 293.2020.9 179921	IEEE Xplore , Conference Proceedings

Sangita Roy	Hardware Implementation of Image Dehazing Mechanism using Verilog HDL and Parallel DCP	Proceedings of 2020 IEEE Applied Signal Processing Conference (ASPCON)	http://dx.do i.org/10.11 09/ASPCO N49795.20 20.9276702	IEEE Xplore
Puspak Pain	Physical Proof and Simulation of Ternary Logic Gate in Ternary Quantum Dot Cellular Automata	Proceedings of 2nd International Conference on Computational Advancement in Communication circuit and System	Print ISBN  978-981- 13-8686-2  Electronic ISBN  978-981- 13-8687-9 doi: https://doi.o rg/10.1007/ 978-981- 13-8687-9	springer
Pranab Hazra	GIS Based Rain Water Harvest Considering Population as a Function	Proceedings of 5th International Conference on Microelectronics, Computing & Communication Systems (MCCS- 2020)		springer
Dr. Anilesh Dey	Effect of Cognitive Task on the Central Nervous System	Proceedings of Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)	SBN: 978- 981-16- 4035-3	springer

Dr. Anilesh Dey	Brain Computer Interface: A Review	Proceedings of Computational Advancement in Communication, Circuits and Systems (ICCACCS 2020)	SBN: 978- 981-16- 4035-3	springer
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)	SBN: 978- 981-16- 4035-3	springer

# **CIVIL**

Name of the Faculty	Title of the book/chapters published	Title of the Book	Published on	Name of the publisher
ABHIPRIYA HALDER	A Comperative study on slope stability analysis by different approaches	Geotechnical Characterization and Modelling	2020	Web of science
ABHIPRIYA HALDER	A Comparative Study on slope stability analysis by different approaches	Lecture notes of IGC	2020	Web of science

# BS & HU

Name of the faculty	Title of the Paper	Name of the Journal	Indexed in Scopus/Thompsons & Reuters
Dr. Sumit Nandi	Utilization of industrial wastes for societal benefits	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)
Dr. Rupa Bhattacharyya	Recycling of plastics and environmental sustainability	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)
Dr. Nikhilesh Sil	Plastic pollution in the ocean: problem and possible solutions	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)
Dr. Nikhilesh Sil	Development of clean and smart campus in India	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)
DR. SHILPI PAL	A study on the effect of COVID-19 pandemic in carbon Management	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)
Dr. Dhananjay Kumar Tripathi	Numerical weather Prediction	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)
Dr. Susmita Karan	Applications of Scientific Tools in Eradicating COVID- 19	Handbook of Environmental crisis and its management (Book chapter	(ISBN: 978-93-89817- 51-5)
Dr. Susmita Karan	Present environmental crisis and it's management using nanotechnology	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)

Rajasi Ray	Effect of Environmental Parameters on the water quality Narmada River, Hussain Shah Lake, The Ganges, and Some Water Samples Collected from North-East India: A Study	Handbook of Environmental crisis and its management	(ISBN: 978-93- 89817-51-5)
Sharmistha Basu	Holding Lens on Urbanization: A Brief Analysis on Urban Ecology	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)
Dr Sarbani Ganguly	Green recovery of metals from E-waste	Handbook of Environmental crisis and its management	(ISBN: 978-93-89817- 51-5)

### 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
	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
Workshop	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

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	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

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	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

Hands-on	Two Days Hands on Session on " Application of Q-GIS"	Narula Intitute of Technology	15.03.2021 - 16.03.2021	30
SDP	STAFF Development Program on "Digitization of Teaching Pedagogy"	Narula Intitute of Technology	22.03.2021 - 27.03.2021	50
	3 days sttp on Challenges and Opportunities of Renewable Energy	Narula Intitute of Technology	20.08.2020 - 22.08.2020	36
	One Week STTP on "Hydrodynamics and Sediment Transport in Unsteady Flows"	Narula Intitute of Technology	19.04.2021 - 23.04.2021	40
	AICTE Sponsored Short Term Training Programme titled Data Science & Machine Learning (Phase I)	Narula Intitute of Technology	24.05.2021- 28.05.2021	98
STTP	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 III)	Narula Intitute of Technology	21.06.2021 - 25.06.2021	83
	3 DAYS STTP on "IoT and its Application in Industry"	Narula Intitute of Technology	22.06.2021- 24.06.2021	31
	One Week FDP on "Recent Trends in Civil Engineering"	Narula Intitute of Technology	07.08.2020 - 11.08.2020	40
	Two days FDP on "Wireless Transceiver IC"	Narula Intitute of Technology	18.08.2020 - 19.09.2020	29
	Online One Week FDP on "ANSYS Workbench"	Narula Intitute of Technology	11.01.2021 - 15.01.2021	52
	Online FDP on New Trends in Machine Learning (NTML 2021)	Narula Intitute of Technology	22.03.2021 - 26.03.2021	64
	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

### **Faculty Orientation Programme**

Narula Institute of Technology have organized Faculty Orientation Program for all the new recruits from 17<sup>th</sup> to 21<sup>st</sup> August, 2020. 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.

17-08-2020: Day 1, which started with lectures on curriculum constituents, academic structure of NiT, course monitoring, MOOCs, flipped classroom paradigms, etc.

18-08-2020: 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.

19-08-2020: 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

20-08-2020: Day 4 where lab visits were organized to bring forward the different laboratories at NiT. These tours included Physics, Chemistry, central workshops, etc.

21-08-2020: 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
- What to test for? Learning evaluation through quizzes, exams, projects.
- MOOCS, Flipped Classroom paradigms
- Course monitoring mechanism at NiT
- Teaching management system (LMS)

- Mentoring System
- 2. Basic Fundamental Subjects
- Core Physics objectives, content, preparation, delivery, expectation
- Core mathematics 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 lab
   Component
- 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
- Statistical Methods and errors
- Scope of Consultancy

#### **Resource Persons**

Sl No.	Name	Designation
1	Prof. Biman Mukherjee	Professor, Civil Engineering, NiT
2	Prof.(Dr.) S.C. Konar	Professor, Electrical Engineering, NiT

3	Prof. S.K. Sanyal	Professor, Electronics and Communication Engineering, NiT
4	Prof. B K Medya	Professor, Information Technology, NiT

# **List of Registered Participants**

Sl No.	Faculty Name	Designation	Department	
1	Prithwiraj Sarkar	Assistant Professor	Civil Engineering	
2	Chandrachudha Bhattacharyya	Assistant Professor	Civil Engineering	
3	Pallav Paul	Associate Professor	Computer Science and Engineering	
4	Susmita Dhar	Assistant Professor	Electrical Engineering	
5	Partha Bhattacharya	Assistant Professor	Mechanical Engineering	

### **About The Programme**

Narula Institute of Technology have organized Faculty Orientation Program for all the new recruits from 22<sup>nd</sup> to 26<sup>th</sup> February, 2021. 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.

22-02-2021: Day 1, which started with lectures on curriculum constituents, academic structure of NiT, course monitoring, MOOCs, flipped classroom paradigms, etc.

23-02-2021: 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.

24-02-2021: 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

25-02-2021: Day 4 where lab visits were organized to bring forward the different laboratories at NiT. These tours included Physics, Chemistry, central workshops, etc.

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- To enable the faculty to generate new learning materials for enrichment of online open access platforms
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- Mentoring System

- 2. Basic Fundamental Subjects
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- Core mathematics objectives, content, preparation, delivery, expectation
- Need for simple experimentation in classroom teaching
- Overcoming functional English deficiency
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- Introduction of Electrical Engineering
  - 3. Departmental core
- Introduction to department objectives, emphasis, course template, break-up of theory and lab.
   Component
- 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
- Statistical Methods and errors
- Scope of Consultancy

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2	Prof.(Dr.) S.C. Konar	Professor, Electrical Engineering, NiT	
3	Prof. S.K. Sanyal	Professor, Electronics and Communication Engineering, NiT	
4	Prof. B K Medya	Professor, Information Technology, NiT	

## **List of Registered Participants**

Sl No.	Faculty Name	Designation	Department
1	Debasish Dutta	Professor	Civil Engineering
2	Sudeshna Ghosh	Assistant Professor	Civil Engineering
3	Anwesha Ghosh	Lecturer	Civil Engineering
4	Subham Dutta	Lecturer	Civil Engineering
5	Arindam Sadhu	Assistant Professor	Electronics and Communication Engineering
6	Ranit Dey	Assistant Professor	Electronics and Communication Engineering
7	Eshita Basak	Assistant Professor	Electronics and Communication Engineering
8	Sourav Dutta	Lecturer	Electronics and Communication Engineering
9	Sambhu Nath Saha	Associate Professor	Information Technology

10	Anirban Adhikari	Assistant Professor	Electrical Engineering
11	Pranab Saha	Assistant Professor	Electrical Engineering
12	Priya Ranjan Das	Assistant Professor	Basic Science & Humanities

# **Some Glimpses of the Event**







#### **Student Centric Activities** Chapter 6

#### INDUCTION PROGRAMME FOR 1ST YEAR STUDENTS

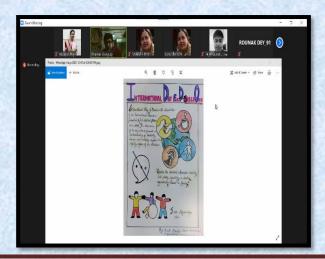
## SWAGATAM 2K20

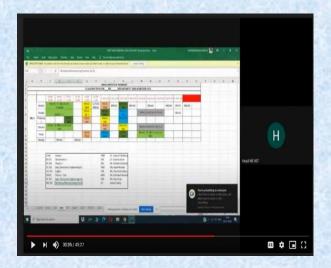
Every year Narula Institute of Technology conducts orientation programme for the newly admitted students to ensure their smooth intake, familiarise with the institution's facilities, norms and cultures and to inform students about the exciting world of technology and management. This year challenged by the pandemic, the three week Orientation Programme "Swagatam 2K20" for the first-year B.Tech and Diploma students was organised by individually all departments through the online mode from 18th November'2020 to 4th December'2020.

The students were welcomed by the Head of the respective Departments and introduced the students with all the departmental members. The students were explained about the curriculum detail, the syllabus and the examination system. A virtual 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 showcase 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.













# **Publications**

## **Dept: Computer Science and Engineering**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Shubhendu Banerjee	Assistant Professor	CSE	1	1	Sumit Kumar Singh
2	Koushik Karmakar	Assistant Professor	CSE	1	1	Aritri Chakraborty
3	Mousumi Saha	Assistant Professor	CSE	1	1	Debpuja Dhar
4	Chandrima Chakrabarti	Assistant Professor	CSE	6	4	1. Bidisa Saha 2. Debonita Chatterjee 3. Ishita Mukherjee 4. Oishi Banerjee 5. Ritaja Sengupta 6. Samir Pramanick
5	Dr. Subhram Das	Assistant Professor	CSE	6	4	1. Arijit Das (3) 2. Tanisha Khan 3. Kumar Kalpadiptya Roy 4. Ipsita Mazumder 5. Navoneel Moitra 6. Akanksha Singh

# **Dept: Information Technology**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Soumya Bhattacharyya	Assistant Professor	IT	14	9	Neha Dey , Ankush Baran Basu, Shreyashree Mondal, Yash Gaurav, Sana Afreen, Snigdha Roy, Sneha Singh, Sneha Halder, Satarupa Nag, Swapnil Sinha, Faraz Iqubal, Shubham Awasthi, Sumit Kumar Singh, Ruparna Mukherjee
2	Shyamapriya Chowdhury	Assistant Professor	IT	11	6	Purbita Sur, Neha Dey , Ankush Baran Basu, Shreyashree Mondal, Yash Gaurav, Sana Afreen, Snigdha Roy, Saikat Das, Sampita Mallick, Ratna Dey , Aisik Bisoi
3	Sujata Kundu	Assistant Professor	IT	13	6	Neha Dey , Ankush Baran Basu, Shreyashree Mondal, Yash Gaurav, Sana Afreen, Snigdha Roy, Saikat Das, Sampita Mallick, Ratna Dey , Aisik Bisoi, Sneha Singh, Sneha Halder
4	Tamasree Biswas	Assistant Professor	ΙΤ	1	1	Debpuja Dhar

# **Dept: Electronics and Communication Engineering**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Dr.Surajit Bari	Assistant Professor	ECE	11	3	Aman Kumar Shaw Halwai, Ratul Adhikary, Mainak Chakraborty, Rahul Shaw, Abhijit Sadhu Payel Mukherjee, Archishman Nath, Manish Kumar, Isha Bhattacharjee, Sinthia Mukherjee, Amartya Chatterjee
2	Dr. Sangita Roy	Assistant Professor	ECE	21	8	Shuvam Shaw, Deshna Chowdhury, Diksha Yadav, Priti Kumari Ranjana, Sayan Ghosh, Abhishek Singha, Sanchari Majumdar, Shweta Kumari, Subhrakanti Samanta, Souvik Biswas, Neha Bhattacharya, Ananya Samanta, Nitin Gupta, Atanu Maity, Arpan Kumar Basak, Satyaki Ghosh, Antara Manna, Swagata Dasgupta, Tanmoy Munshi, Indranil Jana, Sandipan Seal,
3	Pranab Hazra	Assistant Professor	ECE	19	8	Payel Mukherjee, Archishman Nath, Manish Kumar, Isha Bhattacharjee, Sinthia Mukherjee, Amartya Chatterjee, Soumasish Das, Soumendu Biswas, Pratiti Debsarma, Krishnendu Ghosh, Tamajit Biswas, Baishali Sarkar, Debdas Mondal, Deepali Kumari, Niladri Mallik, Chadni Chatterjee, Suvadeep Guha, Avijit Saha & Raju Das.

100	Charles and the same of the sa	- North Control of the Control of th	and the same		THE COURSE OF THE PARTY OF THE	
4	Soumen Pal	Assistant Professor	ECE	2	2	Atanu Maity, Payel Mukherjee
5	Dr. Sandhya Pattanayak	Assistant Professor	ECE	10	4	Payel Mukherjee, Atanu Maity, Arpan Kumar Basak, Satyaki Ghosh, Antara Manna, Sayani Sen, Swagata Dasgupta, Tanmoy Munshi, Indranil Jana, Sandipan Seal.
6	Kaushik Sarkar	Assistant Professor	ECE	11	3	Payel Mukherjee, Archishman Nath, Manish Kumar, Isha Bhattacharjee, Sinthia Mukherjee, Arpan Kumar Basak, Satyaki Ghosh, Arnab Sadhukhan, Atreyee Mukherjee, Shramana Guchait, and Sudipta Banerjee
7	Abhijit Ghosh	Assistant Professor	ECE	5	2	Sattick Bhadra, Akshay Madhusoodanan, Amalendu Mahato, Debraj Dhara, Atanu Maity
	D. A. ilah					Payel Mukherjee, Archishman Nath, Manish Kumar, Isha Bhattacharjee, Sinthia Mukherjee
8	Dr. Anilesh Dey	Head-ECE	ECE	14	4	Arpan Kumar Basak, Satyaki Ghosh, Antara Manna, Sayani Sen, Swagata Dasgupta, Tanmoy Munshi, Indranil Jana, Sandipan
9	Rimpi Datta	Assistant Professor	ECE	17	5	Seal, Amartya Chatterjee  Mohit Sharma, Sattick Bhadra, Akshay Madhusoodanan, Amalendu Mahato, Debraj Dhara, Tathagata Mukherjee, Abhishek Mitra, Laboni Giri, Sourik Khan,Suchetana Sarkar, Trisha Ghatak,Anirban Saha, Susmita Deb, Swagata Dasgupta, Tanmoy Munshi, Indranil Jana, Sandipan Seal.
10	Arpita Barman Santra	Assistant Professor	ECE	7	4	Swagata Dasgupta, Tanmoy Munshi, Indranil Jana, Sandipan Seal, Arpan Kumar Basak, Payel Mukherjee, Atanu Maity,
11	Arnima Das	Assistant Professor	ECE	21	6	Sattick Bhadra, Akshay Madhusoodanan, Amalendu Mahato,

_	CATHERD CO. A. P. C. COLOR S. C.	The state of the s	P. C.	177		A STATE OF THE STA
						Debraj Dhara, Mohit Sharma,
						Arpan Kumar Basak, Satyaki
						Ghosh, Antara Manna, Sayani
						Ghosh, Swagata Dasgupta,
						Tanmoy Munshi, Indranil Jana,
						Sandipan Seal, Annesha Debnath,
						Barnali Sikdar, Pritha Kundu,
						Purba Das, Piya Chakraborty, Pratik
						Paul,Roni Rakshit,Dipanjan Maiti
353	A CONTRACTOR OF THE PARTY OF TH				San	Atanu Maity, Payel
						Mukherjee, Annesha
12	Assistant FG	ECE	10		Debnath,Barnali Sikdar, Pritha	
12	Swati Barui	Professor ECE	10	4	Kundu, Purba Das, Piya	
			1000			Chakraborty,Pratik Paul,Roni
				William .		Rakshit,Dipanjan Maiti

# **Dept: Electrical Engineering**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Arkendu Mitra	Assistant Professor	EE	1	1	Tarinmoy Saha
2	Dr. Biswajit Halder	Associate Professor	EE	1	1	Tarinmoy Saha

## **Dept: Mechanical Engineering**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Arghya Gupta	Asst. Prof	Mechanical Engineering	2	1	Arnab Datta, Dinobandhu Mitra

## **Dept: Electronics and Instrumentation Engineering**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Dr.Bansari Deb Majumder	Assistant professor and TIC	EIE	10	11	Sourab Ghosh,Ratul Saha,Ambalika Gupta,Soumyadipta Boral,Abhishek Das,Joy Halder,Nishita Paik,Hiranangshu Ghosh,Sanmitra Biswas,Komal Kumari Roy

2	Dr.Dibyendu Sur	Assistant professor	EIE	10	7	Ratul Saha, Soumi Dey,Annasha Purohit, Raktima Dutta,Anushmita Ghosh, Ratul Dawn,Deblina Mitra, Jasmine Firdaus,Komal Kumari Roy,Nishita Paik
3	Mrs Sanghamitra Layek	Assistant professor	EIE	4	4	Nishita Paik,Sourab Ghosh,Ambalika Gupta,Anushmita Ghosh
4	Susmita Das	Assistant professor	EIE	17	7	Souvik Ghosh, Trisha Paul, Chaitali Bhattacharya, Aniket Chakraborty, Shyam Sundar Banerjee, Soutrik Karmakar, Anushmita Ghosh, Ratul Dawn, Aniket Chakraborty, Shyamsundar Banerjee, Soutrik Karmakar, Koushik Das, Priyanka Sadhukhan, Arabinda Sinha, Soumik Samanta, Souvik Pal, Prasanta Majumder,

# **Dept: Civil Engineering**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Anasuya Mondal	Assistant Professor	Civil Engineering	1	1	Riya Swarnakar
2	Abhishek Hazra	Assistant Professor	Civil Engineering	2	3	Subhojit Maity, Palash Nath
3	Dr. Biman Mukherjee	Professor	Civil Engineering	5	1	Saghnik Majumder, Anwesha Ghosh, Sreya Das, Ipsita Maitra, Khalid Houssain
4	Abhipriya Halder	Asistant Professor	Civil Engineering	3	1	Saptarshi Nandi & Kaushik Bandyopadhyay, Dipanjan Basu

# **Dept: Basic Science and Humanities**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Dr. Sumit Nandi	HOD & Associate Professor	Basic Science and Humanities	6	6	Swarnendu Mitra, Sandipa Roy, Deblina Sarkar, Prerona Saha, Binita Mondal, Moubani Majumder,
2	Dr. Dhananjay Kumar Tripathi	Assistant Professor	Basic Science and Humanities	1	1	Swarnendu Mitra
3	Dr. Nikhilesh Sil	Assistant Professor	Basic Science and Humanities	4	4	Sujaan Maitra, Ankan Das, Subhajit Dey , Arisha Dutta
4	Dr Indrani Sarkar	Assistant Professor	Basic Science and Humanities	6	4	Saswata Ghosh, Devapriya Manna, Debajit Dutta , Ratul Bhattacharya ,Adrija Saha, Sanlap Ghosh
5	Dr. Shilpi Pal	Assistant Professor	Basic Science and Humanities	2	2	Soindrila Deb, Bikramanya Das

6	Sharmistha Basu	Assistant Professor	Basic Science and Humanities	7	3	Ms. Sudeshna Dey, Mr. Anudeepa Gon, Mr. Tanmoy Ghosh, Souptik Biswas, Nandita Ghosh, Samir Pramanik, Chetana Chakravarthi
7	Dr Sarbani Ganguly	Assistant Professor	Basic Science and Humanities	3	2	Bhaskar Majumder, Sana Afreen, Yash Gaurav
8	Dr. Avishek Chakraborty	Assistant Professor	Basic Science and Humanities	1	1	Sayantan Bose
9	Rajasi Ray	Assistant Professor	Basic Science and Humanities	6	3	Ishita Mukherjee Sandipa Roy Sukanya Chatterjee Pallavi Reddy Oishi Banerjee Debonita Chatterjee
10	Dr. Susmita Karan	Assistant Professor	Basic Science and Humanities	4	2	Soham Mukhopadhyayb, Rudraraj Ghosh, Sukanya Chatterjeeb and Pallavi Reddy
11	Dr. Rupa Bhattacharyya	Assistant Professor	Basic Science and Humanities	9	9	Swarnendu Mitra, Sandipa Roy, Deblina Sarkar, Prerona Saha, Binita Mondal, Moubani Majumder, Sukanya Chatterjee, Rudraraj Ghosh

12	Payel Mondal	Assistant Professor	Basic Science and Humanities	2	2	Yash Kumar Singh, Arushi Gupta
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# **Dept: Computer Application**

SL.	NAME OF THE FACULTY	DESIGNATION	Dept.	No. of Students	Total no. of publications	Name of the students
1	Debrupa Pal	Assistant Professor	Computer Application	2	2	Rituparna Pata, Shrabana Sengupta

### **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.

### **International Day against Drug Abuse**

26th June is celebrated as International Day Against Drug Abuse all over the world. Drugs and narcotics abuse has been an ongoing war for a very long time now. It has in many ways, changed the course of human history, and affected millions worldwide, caused death, loss, pain and grief to countless people. It has torn families apart, caused governments to be overthrown, ruined countless lives, forced governments to bring legislative amendments and forced most first world nations to announce war against drugs and drug abuse. The unhealthy glamour of the world of addiction has also seeped into popular culture and entertainment, resulting in books, shows, movies being made about them, drug use and abuse being broadcasted on television or social media. This has led to the unfortunate increase in drug abuse among teenagers and young adults of impressionable age and mindset. So much so that this problem is steadily claiming more and more bright youngsters every year. As their elders, guides and allies, it is a duty that befalls every responsible adult to help youngsters overcome addiction and bypass the evils of addiction at all cost.

On 26th June, 2021, Narula Institute of Technology, through the NSS Unit, celebrated International Day Against Drug Abuse via online platform Google Meet. Students from all departments participated in two events in particular- The poster competition and online presentation. The students participated in making intuitive posters about the issue that is certainly very relatable to people of that particular age-group. Despite

being surrounded in a counter culture that encourages dilettante behaviour like drug abuse, our students are flowering into conscientious individuals, as is shown in the posters that they created.

Bhumi- an NGO also presented a short presentation on the topic and how the volunteers are helping on the cause along with imparting knowledge to poor children on robotics and other subjects. Two of our EIE students are also volunteers of this NGO. This was followed by our student PPT presentation. The presentations made by them were engaging and encouraged especially through a short skit presented by Ekak, a student group. Dialogues and tribulations on these issues help bring more awareness and end the abuse. If the performances are any indicator, we can confidently assert our students have inculcated a sensibility that will help them overcome urges that will push them towards uncertainty.







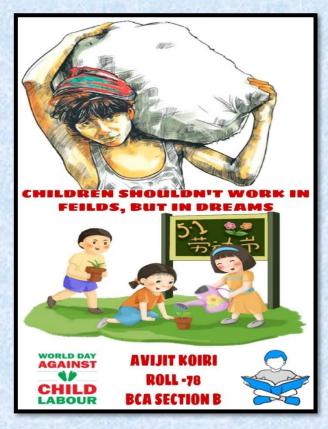
### **World Day Against Child Labour**

June 12 is designated as World Day Against Child Labour to draw awareness to the international issue of child labour and to develop solutions to end it. The day is observed to raise knowledge about the negative mental and physical concerns that children who are pushed into child labour endure across the world.

This day also helps in educating these kids' parents that employing a child is morally and illegally wrong. This year the theme of this special day is "Act now: End Child Labour".

The NSS committee of Narula Institute of Technology has celebrated the day and our students from all the departments have actively participated by presenting PPTs, hand made and e posters etc. The enthusiastic participation of all the NSS members and the students made the celebration a memorable one.







### **Covid Care and Anxiety Relief**

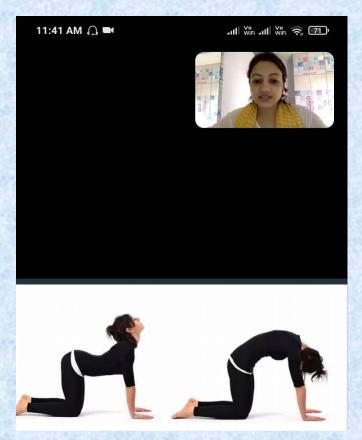
The whole world has been in the grip of Covid 19 Pandemic since 2019 and our lives have taken a drastic turn for the unknown over the course of 2020. At the beginning of 2021, new hopes were seen as the pandemic seemingly started to disappear. However, due to a mix of human and natural reasons, we faced a devastating second wave of Covid-19 pandemic. The tremors of this devastation was felt all over the country as death tolls rose alarmingly and life came to a perpetual standstill. The disease became a household name across the country and with that came the inevitable deaths. As we come down slowly but surely from this fatal curve, our physical and mental health seem to have taken a toll. At a time of crisis such as this, Mental wellbeing is as important as physical wellbeing. After all, the mind can accomplish things we would physically not expect.

Narula Institute of Technology stood by people at the time of the Pandemic. NiT, in collaboration with Art of Living organised a Post Covid Care Workshop for the students from 7<sup>th</sup> to 9<sup>th</sup> June, 2021. The NSS Committee took the initiative to invite Ms. Priyanka Agarwal and Ms. Madhu Goyal from the Art of Living NGO to organize "the three day wellness workshop on Covid Care and Anxiety Relief" on an online platform.

The event spanned over three days where the students and faculty members participated enthusiastically for wellness and meditation sessions, as well as an active yoga session, conducted by Ms. Goyal and Ms. Agarwal. The students were taught the right way to practice Yoga postures to ensure release of stress and toxins from the body and breathing exercises to ensure healthy respiratory systems and proper metabolism which are the main weapons against the deadly pandemic. After each meditative session, the benefits of meditation and how to meditate were taught. Similarly after every asana, its benefits, its pros and cons were discussed in detail by the instructors. There is no weapon greater than the meditative mind in fighting and dealing with uncertainty, fear and hopelessness. To fight a malaise with no medicine, the students were fortified with inner strength and mental stability.

The members of the NSS Committee also joined the event on all three days enthusiastically and were greatly benefited, not only from the Yogic practices of the teachers, but also from the wisdom of Guru Shri Ravi Shankar, the founder of Art of Living and a man of wisdom in himself.







### **World Environment Day**

'Reimagine. Recreate. Restore' and its focal point is ecosystem restoration. "Ecosystem restoration means preventing, halting and reversing this damage- to go from exploiting nature to healing it"!!

World Environment Day is the opportunity for everyone to realize the responsibility to care for the Earth and to become agents of change. World Environment Day is celebrated each year on 5th June. The pandemic that the world has been dealing with for almost 1.5 years now has shown the disastrous consequences of ecosystem loss. The fact remains that only with healthy ecosystems can we enhance people's livelihoods, counteract climate change and stop the collapse of biodiversity. The theme for World Environment Day 2021 is 'Ecosystem Restoration'.

On the occasion of World Environment Day, the NSS committee of Narula Institute of Technology organised a virtual celebration where students, staff and faculty members from all the departments participated & shared their views on the restoration of mother earth. Students presented PPTs, hand made and e-posters, poems,

planted saplings in their houses etc contributing to a healthier and cleaner society which in turn will make a greener Earth.



### **WORLD NO TOBACCO DAY**

"Tobacco Companies Kill Their Best Customers and Once You Start; It's Hard to Stop..."

To highlight the health risks associated with tobacco use, WORLD NO TOBACCO DAY, designated by the World Health Organization, is observed every year on 31st May. The theme this year was 'Quit tobacco to be a winner'.

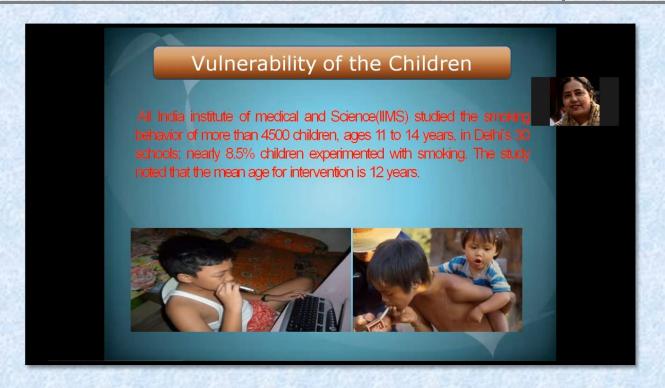
In sync with the directives of AICTE to generate awareness on this issue, the NSS committee of Narula Institute of Technology has organised an awareness program on 31st May, 2021 where students and faculty members of all the departments have taken the pledge, created thought provoking posters and **PPT presentations.** The students have also shared their views and thoughts about the health issues due to the consumption of tobacco.

The initiative will be one drop in the ocean to create awareness and empower adolescents who will be prepared to combat this devil of tobacco use with ease.

Few snapshots, posters and video links are attached herewith for your kind reference.







### FOOD DISTRIBUTION to the needy people DURING PANDEMIC

The coronavirus pandemic shows no signs of slowing down as India continues to witness an unprecedented surge in cases, with the health care system facing challenges like never before. The second wave has the country gasping for breath, as our state is struggling to cope up with the rising number of COVID cases. But amid all the doom and gloom, people throughout the country have rallied and offered assistance to those affected by COVID-19.

Students helped COVID patients by arranging resources that can save lives. They are providing humanitarian aid to covid patients and their families. They have been extending help by providing food packets, medicines to needy and poor people.



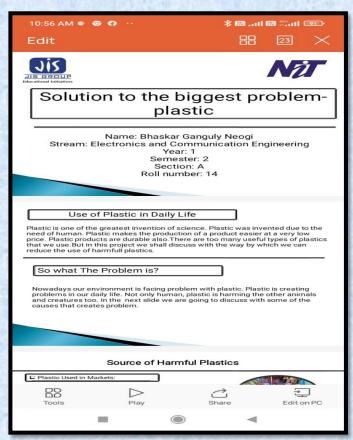


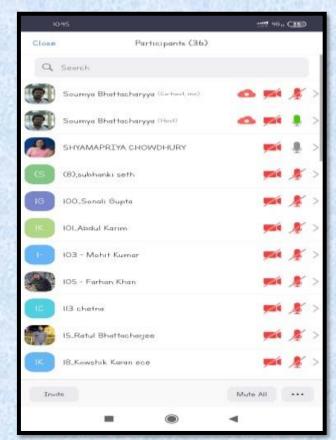
### RECYCLE PLAN TO REDUCE PLASTIC PROBLEM

Plastic is a non-biodegradable waste. It never decomposes-it only disintegrates into smaller pieces. After that, plastic permeates every layer of the ecology and poisons all forms of life on Earth. Hence, plastic –free future is the only healthy and safe future for people of planet Earth.

Plastic is one of the greatest inventions of science. Plastic was invented due to the need of human. Plastic makes the production of a product easier at a very low price. Plastic products are durable also. There are too many useful types of plastics that we use.

Narula Institute of Technology, NSS Unit, worked in tandem to bring about awareness against the use of plastic. On 31st March 2021, the students of Narula Institute of Technology pledged to bring about changes in the society regarding plastic usage and prepared posters articles to aware ill effects of plastic. Also our students prepared Power Point Presentation about Recycle Plan to Reduce Plastic Problem and participated in competition about Social Entrepreneurship Business Plan Implementation arranged by MGNCRE (Mahatma Gandhi National Council of Rural Education).





### Cancer awareness Program

World Cancer Day is a truly global event and in order to achieve our objective to create awareness for the vicious disease called Cancer, 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.

The NSS unit of Narula Institute of Technology conducted an online Session on Online Cancer Awareness on 3rd February 2021 at 12.30 PM onwards. To let people know about the disease, prevention, effects, and treatment of cancer, all the departmental students of Narula Institute of Technology showcases their informative audiovisual presentation, poster, banner, painting, video, and audio documentary with field activities for the awareness on cancer through this online program. The session was coordinated and hosted by Mr. Puspak Pain, Asst. Professors, ECE Dept. with Mrs. Rupa Das Gupta, Technical Assistant, EE Department.







### **INTERNATIONAL HUMAN SOLIDERITY DAY**

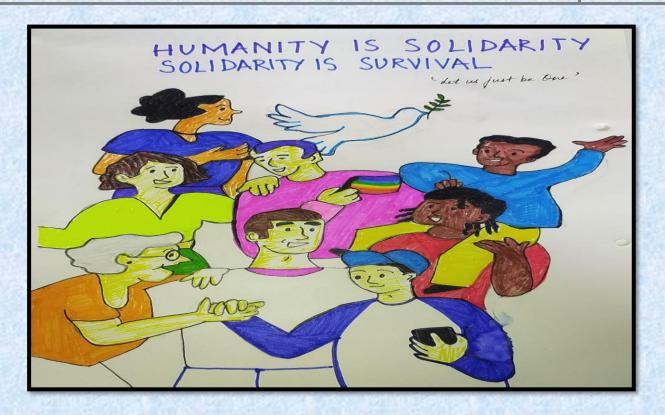
The International Human Solidarity Day (IHDS), <u>observed</u> on December 20, is an international annual unity day. Its main goal is to recognize the <u>universal values</u> of poor by making the <u>associated countries</u> aware of reducing poverty and to formulate its countermeasures as signed by the independent states.

The International Human Solidarity Day is

- A day to celebrate our unity in diversity;
- A day to remind governments to respect their commitments to international agreements;
- A day to raise public awareness of the importance of solidarity;
- A day to encourage debate on the ways to promote solidarity for the achievement of the Sustainable Development Goals including poverty eradication;
- A day of action to encourage new initiatives for poverty eradication.

On the eve of 20<sup>th</sup> December 2020 NSS UNIT, Narula Institute of Technology organised a P.P.T presentation in online mod to aware the students about Human solidarity, Unity in diversity, Poverty, Disease. About 55 students give the presentation in this program







## **OLD AGE HOME VISIT**

On 13th November, 2020 faculty members along with students visited Ramakrishna Old Age home, Sodepur near Mollar Hut with full precaution of Covid 19. Faculty members, Dr. Nikhilesh Sil, Ms. Ananya Banerjee, Mr.Anukul Maity, Ms.Shyamapriya Chatterjee and Ms. Debrupa Paul were visited. It was a pre Diwali celebration with aged people. Sanitizer, Mask, fruits, medical kits were offered to them. It was a memorable day of the faculty member's students as well as the aged people.

### **Outcome:**

- The program was successfully conducted.
- Students learnt a lesson of responsibility towards old and homeless people.
- Students were also aimed to do work for the betterment of society.





## **ORPHANAGE HOME VISIT**

### Objective of the program:

- To interact with children and to know their lifestyle.
- To educate them about the concept of good and bad habits.
- To provide them with necessary material of day to day use.
- To boost their confidence and courage.
- To raise morale values and respect towards community.

Number of participants: 50

#### Description of the program:

On 13th November, 2020 faculty members along with students visited Orphanage home, Barrackpore near Ganga ghat with full precaution of Covid 19. Faculty members, Dr. Nikhilesh Sil, Mr. Anukul Maity, Ms. Shyamapriya Chatterjee and Ms. Susmita Das were visited. Sanitizer, Mask, fruits, sweets, medical kits, drawing material were prepared for 50 physically challenged children. Lunch were provided to the children. Students enjoyed the whole day with children and children were also happy.





# Workshop on Social Entrepreneurship

"If opportunity does not knock, build a door"......Milton Berle.

What is social entrepreneurship?

Recognizing and resourcefully pursuing opportunities to create social value Crafting innovative approaches to addressing critical social needs.

Social entrepreneurship is the process of recognizing and resourcefully pursuing opportunities to create social value. Social entrepreneurs are innovative, resourceful, and results oriented. They draw upon the best thinking in both the business and nonprofit worlds to develop strategies that maximize their social impact. These entrepreneurial leaders operate in all kinds of organizations: large and small; new and old; religious and secular; nonprofit, for-profit, and hybrid. These organizations comprise the "social sector."

On 17<sup>th</sup> Oct, 2020 a one day workshop was organized on the theme "Social Entrepreneurship", almost 90 numbers of participants were taken part in it. Where the participants were from students as well as other stake holders of the institute.



One of the students is giving presentation on the theme "Social Entrepreneurship" Outcome of The program: Participants learned how they can build a start-up which may benefits the society.

### **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.

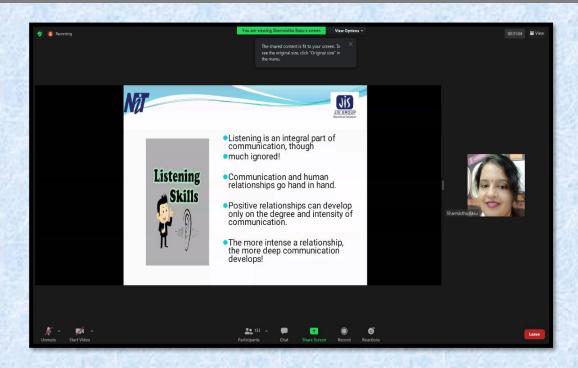
### **Soft Skills**

Soft Skill Training are organized online to enhance the interview skills and techniques, time management, decision-making, problem-solving ability of students. This kind of trainings develops students for various campus recruitment and competitive examinations. Training and placement cell provides various opportunities for overall growth of the student by organizing various value-added programs.

Name of the capability enhancement program	Date	Name of the agencies/consultants	Objective
Verbal, Non-Verbal	17-11-	Mr. Rahul Basak, Career	Enhancement of verbal and nonverbal communication
Training EIE 2nd year	2020	Launcher	
Verbal, Non-Verbal	16-11-	Mr. Rahul Basak, Career	Enhancement of verbal and nonverbal communication
Training-ME 2nd year	2020	Launcher	
Verbal, Non-Verbal	13-11-	Mr. Rahul Basak, Career	Enhancement of verbal and nonverbal communication
Training-CE 2nd year	2020	Launcher	
Verbal, Non-Verbal	12-11-	Mr. Rahul Basak, Career	Enhancement of verbal and nonverbal communication
Training- IT 2nd year	2020	Launcher	

Verbal, Non-Verbal Training - EE 2nd year Sec B	11-11- 2020	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training - EE 2nd year Sec A	10-11- 2020	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-	09-11-	Mr. Rahul Basak, Career	Enhancement of verbal and nonverbal communication
ECE 2nd year Sec B	2020	Launcher	
Verbal, Non-Verbal Training-	06-11-	Mr. Rahul Basak, Career	Enhancement of verbal and nonverbal communication
ECE 2nd year Sec A	2020	Launcher	
Verbal, Non-Verbal	05-11-	Mr. Rahul Basak, Career	Enhancement of verbal and nonverbal communication
Training-CSE 2nd year Sec C	2020	Launcher	
Verbal, Non-Verbal Training-CSE 2nd year Sec B	03-11- 2020	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-CSE 2nd year Sec A	02-11- 2020	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Soft Skill Training - EIE 1st	14-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year	2020	Target Education	
Soft Skill Training - EE 1st	11-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year Sec B	2020	Target Education	
Soft Skill Training - EE 1st	10-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year Sec A	2020	Target Education	
Soft Skill Training - ME 1st	09-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year	2020	Target Education	
Soft Skill Training - CE 1st	08-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year	2020	Target Education	
Soft Skill Training - ECE 1st	07-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year Sec B	2020	Target Education	
Soft Skill Training - ECE 1st	04-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year Sec A	2020	Target Education	
Soft Skill Training - CSE 1st	03-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year Sec C	2020	Target Education	

	Inglation (CA)		
Soft Skill Training - CSE 1st	02-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year Sec B	2020	Target Education	
Soft Skill Training -CSE 1st	01-12-	Mr. Tapas Mukherjee,	Enhancement of Soft Skills
year Sec A	2020	Target Education	
Soft Skill Training - MCA and M.Tech	19-04- 2021	Mr. Madhusudan Dutta, Avteg Pvt.Ltd	Enhancement of Soft Skills
Soft Skill Training - IT 3rd	16-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year	2021	Avteg Pvt.Ltd	
Soft Skill Training - EIE 3rd	14-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year	2021	Avteg Pvt.Ltd	
Soft Skill Training - EE 3rd	13-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year Sec B	2021	Avteg Pvt.Ltd	
Soft Skill Training - EE 3rd	12-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year Sec A	2021	Avteg Pvt.Ltd	
Soft Skill Training - ME 3rd	09-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year	2021	Avteg Pvt.Ltd	
Soft Skill Training - CE 3rd	08-04-	Mr Madhusudan Dutta,	Enhancement of Soft Skills
year Sec B	2021	Avteg Pvt.Ltd	
Soft Skill Training - CE 3rd	07-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year Sec A	2021	Avteg Pvt.Ltd	
Soft Skill Training - ECE 3rd	06-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year Sec B	2021	Avteg Pvt.Ltd	
Soft Skill Training - ECE 3rd	05-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year Sec A	2021	Avteg Pvt.Ltd	
Soft Skill Training - CSE 3rd	04-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year Sec B	2021	Avteg Pvt.Ltd	
Soft Skill Training -CSE 3rd	01-04-	Mr. Madhusudan Dutta,	Enhancement of Soft Skills
year Sec A	2021	Avteg Pvt.Ltd	





### **Language and Communication Skills**

Language is considered the best facilitator of communication and it is also considered hindrance in the way of communication. Training is provided to students so as grooming can be done on several areas like the importance of proper communication, types of communication, barriers to communication, presentation skills etc. Distinguished experts from academics and industry deliver sessions on these topics that help the students to become prepared as per the need of the industry.

Name of the capability enhancement program	Date	Number of students	Name of the agencies/consultants	Objective
Webinar on Language and Communication Skills-CSE 1st year Sec C	17-02-2021	58	Ms Rajasi Ray, Narula Institute of Technology,	Understanding of language and proper communication skills
Webinar on Language and Communication Skills-CSE 1st year Sec B	15-02-2021	57	Ms Rajasi Ray, Narula Institute of Technology,	Understanding of language and proper communication skills
Webinar on Language and Communication Skills-CSE 1st year Sec A	12-02-2021	52	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Webinar on Language and Communication Skills ECE 1st year Sec B	11-02-2021	54	Ms. Kathakali Mandal, Narula Institute of Technology	Understanding of language and proper communication skills
Webinar on Language and Communication Skills ECE 1st year Sec A	10-02-2021	53	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Webinar on Language and Communication Skills IT 1st year	09-02-2021	56	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills

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Webinar on				Understanding of
Language and			Ms. Rajasi Ray,	language and
Communication	08-02-2021		Narula Institute of	proper
Skills ME 1st		51	Technology	communication
year				skills
Webinar on				Understanding of
			Ms. Rajasi Ray,	language and
Language and	05-02-2021		Narula Institute of	proper
Communication		54	Technology	communication
Skills CE 1st year				skills
Webinar on				Understanding of
	Marie Carrier		Ms. Rajasi Ray,	language and
Language and	04-02-2021	53	Narula Institute of	proper
Communication			Technology	communication
Skills EE 1st year				skills
Webinar on		XV-VIII SYSTEM CO	M- V-41-1-1	Understanding of
Language and			Ms. Kathakali	language and
Communication	03-02-2021	43	Mandal, Narula	proper
Skills EIE 1st			Institute of	communication
vear			Technology,	skills
	THE RESERVE OF THE PARTY OF THE			





Language and Communication Skills Training (B. TECH) conducted on 09-02-21

#### Life Skills

Institute encourages yoga and meditation to enhance self-awareness, promoting physical and mental health of students and staff members. Yoga and Meditation increases self-esteem, reduces stress and lengthens attention span which can help a student to stay focused even during pandemic.

Online program on International Day against Drug Abuse is conducted to create awareness against drug abuse. The students participated in making intuitive posters about the issue that is certainly very relatable to people of that particular age-group.

Webinar on Cancer Awareness is conducted to increase cancer literacy and knowledge amongst the student and employees.

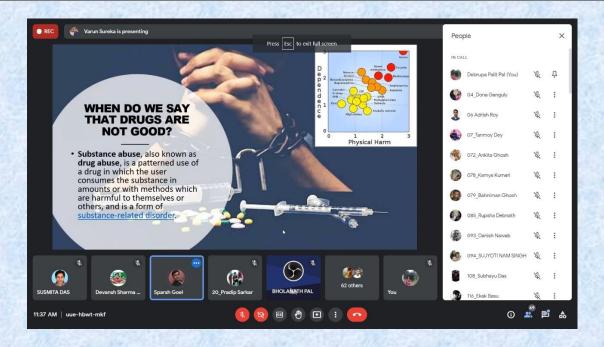
Institute initiated Vaccination Programme for all the students and staff members with the sogan "Do Dose ki Sajhedari Padegi Corona Pay bhari

Name of the capability enhancement program	Date	Name of the agencies/consultants	Objective
Mass Vaccination Drive	12-07- 2021- 14- 07-2021	Ms. Nidhi Singh, Registrar Narula Institute of Technology	To reduce the probability of contracting Covid-
Online Program on International Day Against Drug Abuse and Illicit Trafficking	26-06-2021	Dr Nikhilesh Sil, Narula Institute of Technology	Awareness about the ill effects of drug
Webinar on International Yoga Day	21-06-2021	Ms. Madhu Goyel, Faculty Art of Living	Enhancing physical and mental health
Online Cancer Awareness Week	02-02-2021 05-02-2021	Dr Snehal Bhagat, Senior Project Manager, Indian Cancer Society	Awareness creation about Cancer





Mass Vaccination drive conducted from 12-07-21- 14-07-21







Webinar on International Yoga Day conducted on 21-06-2021



Glimpses of Webinar on Online Cancer Awareness Week conducted on 02-02-2021



Glimpses of Webinar on Cancer is a Word Not a Sentence y conducted on 04-02-2021

### **Trends in Technology**

Webinars are conducted on regular basis for strengthening the knowledge of students about manufacturing practices in industry and the latest trend. Such programs are helpful to produce industry ready graduates.

Virtual Industrial visits are also conducted to provide an exposure to students about practical working environment. They also provide students a good opportunity to gain full awareness about industrial practices.

Name of the capability enhancement program	Date	Name of the agencies/consultants	Objective	
Webinar on Demystifying Machine Learning	11-07-2021	Dr. Siddhartha Roy, Assistant Professor, Department of Computer Science, The Heritage College	Knowledge about Machine Learning	
Webinar on Introduction to Big Data	26-06-2021	Assistant Professor, Cape Peninsula University of Technology	Concept of Big Data	
Webinar on Internet of Things	19-06-2021	Dr. Debdutta Pal, HOD, Computer Science, Brainware University	Knowledge gain about Internet of Things	
Webinar on Introduction to Deep Learning	12-06-2021	Dr. Loshma Gunisetti, Professor, Sri Vasavi Engineering College	Knowledge gain about Deep Learning	
Storage Concepts- SAN	05-06-2021	Ms. Sougata Das, Senior Project Engineer, Wipro Limited	Knowledge gain about Storage Area Network	
Webinar on How to Publish a Quality Research Paper	04-06-2021	Dr. Anindya Nag, Postdoctaral Fellow, Shandon University	Process of writing a Quality Research Paper	
Webinar on Different Aspects on Structural Analysis (Lecture 4)	29-05-2021	Dr. Amit Shaw, IIT Kharagpur	Knowledge gain about Different Aspects on Structural Analysis	
Webinar on Security Issues in Electronic Payment	28-05-2021	Prof Ramit Kumar Roy, Assistant Professor, Department of Information Technology	Knowledge gain about Security Issues in Electronic Payment	

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Webinar on Different Aspects on Structural Analysis (Lecture 3)	22-05-2021	Dr. Amit Shaw, IIT Kharagpur	Knowledge gain about Different Aspects on Structural Analysis
Virtual Industry Visit	15-05-2021	TechTree Technologies	To obtain knowledge about the practical implementation of the latest technology
Webinar on Crash Course to Innovation and Startups	30-04-2021	Mr Soumyadeep Ghosh, Advisory System Analyst, IBM	Knowledge gain about Crash Course to Innovation and Startups
Webinar on Web Development Using Python with Django Framework	29-04-2021	Mr. Anup Kumar Paswan, Web & Android Developer, Corporate Faculty of Techtree Technology	Knowledge gain about Web Development Using Python with Django Framework
Webinar on Multi Agent System	28-04-2021	Ms. Abira Sengupta, PhD Student, Otago University	Knowledge gain about Multi Agent System
Webinar on Machine Learning in the Internet of Things	16-04-2021	Atanu Roy Chowdhury, CEO, Capsule Labs	Knowledge gain about Machine Learning in the Internet of Things
Webinar on Data Science and Industry Trends	20-03-2021	Mr. Binayak Goswami, Manager AI/ML Ernst & Young	Knowledge gain about Data Science and Industry Trends
Webinar on Automotive Application Software Development	13-03-2021	Mr. Abhisek Juneja, System Engineer, TCS	Knowledge gain about Automotive Application Software Development
Webinar on Machine Learning For Images	05-02-2021	Dr. Abhishek Das, Associate Professor, Aliah University	Knowledge gain about Machine Learning For Images
Webinar on Research Prospects in Automation and Control	28-01-2021	Dr Atreyee Kundu, INSPIRE Faculty Fellow,IISB India	Knowledge gain about Research Prospects in Automation and Control
Webinar on Engineers in Real World	22-12-2020	Mr. Ratnadip Paul, Business Analyst, Cognizant Technology Solutions	Knowledge gain about Engineers in Real World
Virtual International Conference on Computational Advancement in Communication Circuits and Systems	17-12-2020-19-12-2020	Dr Sumit Nandi, Convenor, Narula Institute of Technology	To obtain knowledge about the practical implementation of the latest technology
Webinar on Database & BI Development HOT Skills & IT Experience	05-12-2020	Mr. Dhiman Dey,ETL Developer, CGI, Hyderabad	Knowledge gain about on Database & BI Development HOT Skills

			& IT Experience
Webinar on Introduction to 5G	21-11-2020	Kumkum Baidya, Senior Software Engineer, Erricson India Pvt Ltd.	Knowledge gain about 5G
Webinar on Digital Transformation and Cloud Management Issues during COVID Pandemic	(1) /_ 1 1_7/(1)()	Dr. Madhu Agnihotri, St. Xaviers College, Kolkata	Knowledge gain about Digital Transformation and Cloud Management Issues during COVID Pandemic
Webinar on Structural Detailing Using TEKLA Software Part II	20-10-2020	Shomo Banerjee, TEKLA Expert	Knowledge gain about Structural Detailing Using TEKLA Software
Virtual Industrial Visit at TechTree Technologies	17-10-2020	TechTree Technologies	To obtain knowledge about the practical implementation of the latest technology
Webinar on Security in IoT Based Smart Applications	17-10-2020	Maulana Abdul Kalam Azad University of Technology	Knowledge gain about Security in IoT Based Smart Applications
Webinar on Structural Detailing Using TEKLA Software Part I	13-10-2020	Shomo Banerjee, TEKLA Expert	Knowledge gain about Structural Detailing Using TEKLA Software
Webinar on Sustainable City	10-10-2020	Dr. Nitin Kumar Tripathi, Director Special Degree Program, School of Engineering and Technology, Asian Institute of Technology, Bangkok	Knowledge gain about working of Sustainable City
Webinar on Role of Instrumentation Engineering in the field of Non-Destructive Testing	10-10-2020	Mr. Chandan Dutta, Senior Research Fellow, CSIR National Metallurgical Laboratory, Jamshedpur	Knowledge gain about Role of Instrumentation Engineering in the field of Non-Destructive Testing
Webinar on Nanoelectronics and Nano-Sensors	03-10-2020	Dr. Hemen Kumar Kalita, Assistant Professor, Guahati University	Knowledge gain about
Webinar on Building Information Modelling (BIM) Using REVIT Software	03-10-2020	Koustav Sandel, Expert in BIM	Knowledge gain about
Webinar on Towards Bangla Online Handwriting Recognition System	01-10-2020	Dr. Kaushik Roy, Professor and HOD, Department of Computer Science, West Bengal	Knowledge gain about working of Bangla Online Handwriting Recognition System

		State University, Barasat	
Webinar on INDUSTRIAL AUTOMATION-The Engineering of Modern Industries	26-09-2020	Mr. Satadru Banerjee, Founder and Lead Trainer, "Learn It All Academy"	Knowledge gain about INDUSTRIAL AUTOMATION-The Engineering of Modern Industries
General Overview of the Activity of Semiconductor Division, BEL	03-09-2020	Mr. Arijit Das, Sr. Engineer, Bharat Electronics Ltd	Knowledge gain about Activity of Semiconductor
Webinar on Cyber security, Its need in the present world and career opportunity	10-07-2020	Mr. Sandeep Sengupta,CISA, Certified Ethical Hacker	Knowledge gain about







### ome Glimpses of Webiner conducted by different departments of Narula Institute of Technology





International Conference on Computational Advancement in Communication Circuits and Systems in Virtual Mode conducted on 17-12-20 - 19-12-20

### **Chapter 7** Training and Placement

### Career Counselling Programs during 2020-2021

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

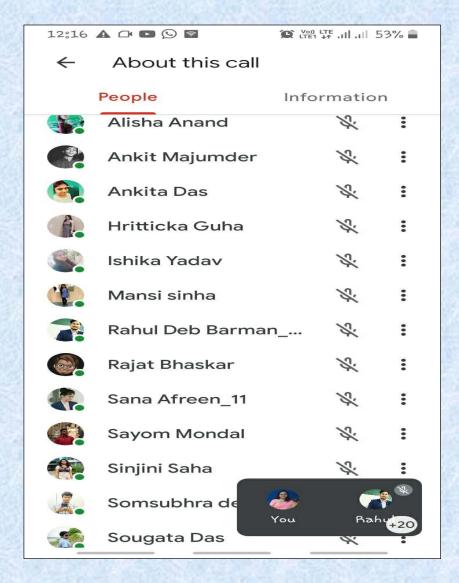
To develop the logical reasoning capability and aptitude solving skills of a student, the institute conducts rigorous Training on Aptitude and verbal and non-verbal reasoning classes and Mock tests from second year to final year. In the year 2020-2021, the resource person for this program was Mr. Tapas Mukherjee. He is a renowned national level trainer, currently associated with Constellation Training & Placement Services. The duration of the training was 14.08.2020 to 15.12.2021. The total no. of students attended the training program are 2053 (approx). The schedule of the training sessions was shared to the students incorporating in the class timetable for all the programs. Some of the glimpses of the training sessions are given below:



Training on Aptitude & Verbal & Non Verbal Reasoning Test 05.11.2020

#### **Mock Interview Sessions**

Narula Institute of Technology conducts mock interview sessions for all the final year students. The objective is to adopt the different protocols for interview preparation. The resource person for this program is Dr. Leena Sarkar, Dept. of BS & HU, Narula Institute of Technology and Mr. R.R Rajguru, GM Training, JIS Group of Educational Initiatives. The student participation of this programme was about 2329. The program started on 09.08.2020 and ended on 11.12.2021. This Interview training was conducted once in a month throughout the whole semester for final year students. The schedule of the training classes was shared to the students and the sessions were inserted in the class timetable for all the programs.



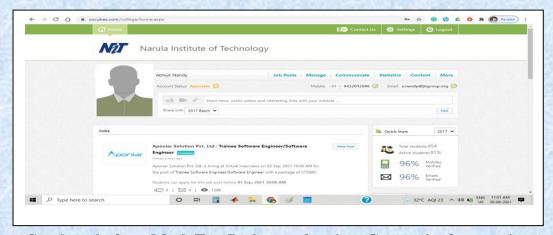
**Mock Interview Sessions on 21.11.2020** 

#### Mock Test Sessions on Aptitude Training & Verbal & Non Verbal Reasoning

To amplify the technical ability of students, the institute organizes different mock test sessions for all final year students. The programme commenced on 22.08.2020 and ended on 11.12.2021. Identity Training services Pvt. Ltd was in charge of this programme. The total no. of student attended this program was approximately 1917. The sessions proved to be quite useful to the job aspirants.

### Mock Test Packages of various Companies for practice before placement drive

The institute offers the technical training from second year to final year students. Prior to the placement drive, the students appear for the mock test sessions via different test packages. The institute has associated with the external vendor Co-cubes for imparting this training. The platform of co-cubes offered the mock test packages of various companies for practice of the students. The tests packages have been offered before the placement drive. The snapshots of the portal of the Co-cubes platform has been given below:



Cocubes platform Mock Test Packages of various Companies for practice

#### **Pre placement Talks**

To make the students understand about the different aspects of the companies among students, the pre placement talks were organized by the Institute. A number of renowned companies like TCS, IBM, Hexaware, CTS, Persistant, Genpact, Wipro, Simplex Infrastructure, Cyber SWIFT, JUSPAY, Johnson Controls (India) Pvt. Ltd, Asa Bhanu Group, Capgemini, DBS, Zensar Technologies, Just Dial, Adobe Systems India Pvt. Ltd, TCG Digital, ITC Infotech, DirectI, Prolifics Corporation Ltd, Franciscan Solutions Pvt. Ltd, Pinnacle Infotech Solutions, Poornam Infovision Pvt. Ltd, IBS Software Services (P) Ltd conducted a series of Pre-placement talks in the year of 2020-2021. These talks were organized centrally by the Training and Placement cell of the institute. The resource persons of these events were the concerned senior employees of the companies.

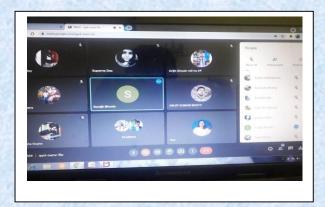


### Problem solving Based on Machine Learning and Data Science

To introduce students to the basic concepts and techniques of Machine Learning and to develop skills of using recent machine learning software for solving practical problems THE Institute organized a seminar on 29.11.2020. Around 129 students facilitated from this session. Prof. Ashifuddin Mondal, Dept. of CSE, Narula Institute of Technology was the resource person. The prime objective of the program was to gain experience of pursuing independent study and research.

#### How to do a Start up Venture?

Students sometime got confused in choosing their future after engineering. To guide them properly the Institute organized a seminar highlighting the opportunities of **Start up Venture** on 23.09.2020 with 339 students. The session was addressed by Prof.. Soumya Bhattacharya, Dept. of IT, Narula Institute of technology.



How to do a Start up Venture? On 23.09.2020

### **Training for Competitive Examinations during 2020-2021**

The career counselling programs aims at providing assistance to the students in choosing a major career path. Competitive exams will enhance the skill of understanding the application of concepts, which is required in a broader context when we appear for exams like GATE, GRE, IELTS, UPSC and many others. Students are able to clearly understand the career exploration process and how their own skills and interest match up to a chosen career path. The details of such programs, arranged in this year, are as follows.

### 1. Training class for competitive exam GATE

The institute arranges training classes for facilitating the preparation for competitive examination. On 03.09.2020, training class has been arranged for GATE examination. Mr. Pranab Hazra conducted the class which helped the students acquire the skill set of solving different problems for GATE. Total number of students attending the class was 43.



### Training class for competitive exam IELTS

The IELTS Academic test is suitable for those wanting to study in an English-speaking environment or university (higher education). Narula Institute of Technology has organized training classes for the preparation of IELTS for all the final and pre final year students of all departments on 19.04.2021 with 19 students, resource person was Ms. Sarmistha Basu, dept of BS & HU, Narula Institute of Technology.



Training class for competitive exam IELTS on 19.04.2021

# PLACEMENT RECORD FOR OUT GOING BATCH

			Plac	eme	nt S	Stat	us f	or 2	021	Bat	tch				
SI No	Company Name	Date of Interv iew	EC E	C S E	I T	E E	C E	EI E	M E	M CA	M.T ech- CS	M.T ech- ECE	M.T ech- EE	M.T ech- CE	Tot al Pla ced
1	Persistent	04.09. 2020	NE	6	0	N E	N E	N E	N E	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	N E	N E	0	N E	NE	NE	NE	NE	NE	3
4	TCS(Digital & Ninja)		15	34	7	1	0	2	1	0	NE	NE	NE	NE	70
5	Nagarro Software	07.10. 2020	1	3	0	N E	N E	N E	N E	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	N E	N E	N E	N E	NE	NE	NE	NE	NE	1
10	White Hat Jr	10.10. 2020	1	0	0	0	0	0	0	0	NE	NE	NE	NE	1
11	Netasia		1	N E	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	1
12	LIC		NE	N E	N E	N E	N E	N E	N E	1	NE	NE	NE	NE	1
13	Knouldus	28.11. 2020	1_	2	0	0	N E	1	N E	0	0	NE	NE	NE	4
14	Anza Services	30.11. 2020	NE	N E	N E	N E	0	N E	N E	NE	NE	NE	NE	NE	0
15	Amdocs	06.12. 2020	5	0	0	N E	N E	N E	N E	0	NE	NE	NE	NE	5
16	Xento Systems	08.12. 2020	NE	0	0	N E	N E	N E	N E		NE	NE	NE	NE	0
17	Repos Energy India	16.12. 2020	NE	N E	N E	0	N E	N E	1	NE	NE	NE	NE	NE	1
18	AO Smith	17.12. 2020	NE	N E	N E	N E	N E	N E	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	N E	N E	2	N E	N E	N E	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

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22	Pinnacle Infotech	08.01. 2021	NE	N E	N E	5	7	N E	1	NE	NE	NE	NE	NE	13
23	ISC Software	08.01. 2021	NE	1	0	N E	N E	N E	N E		NE	NE	NE	NE	1
24	Paapri Business Technology	09.01. 2021	NE	2		N E	N E	N E	N E	NE	NE	NE	NE	NE	2
25	Nerdy Turtelz	27.01. 2021	NE	0	0	N E	0	N E	0	1	0	NE	NE	NE	1
26	Elphill	31.01. 2021	0	0	0	N E	N E	N E	N E	0	NE	NE	NE	NE	0
27	Cvent	02.02. 2021	0	0	0	0	0	0	N E	0	0	0	0	0	0
28	ARC Documents	03.02. 2021	NE	4	1	0	N E	1	N E	NE	NE	NE	NE	NE	6
29	High Tech Next	08.02. 2021	NE	N E	N E	N E	N E	N E	1	NE	NE	NE	NE	NE	1
30	Blue Couch	09.02. 2021	2	1	0	N E	N E	N E	N E	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	N E	0	0	1	N E	N E	NE	NE	NE	NE	NE	1
33	Cue Logic	15.03. 2021	NE	3	0	N E	N E	N E	N E	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	N E	N E	N E	N E	0	NE	NE	NE	NE	1

100		Charles Carl	1000								NW TOWN	A Chiptori	11.00	100	
36	Tirumala Seven Hills	19.02. 2021		N E	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	0
37	Unified Infotech	22.02. 2021	NE	0	1	N E	N E	N E	N E	NE	NE	NE	NE	NE	1
38	Mongia Green	22.02. 2021	NE	0	0	N E	N E	N E	N E	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	N E	N E	N E	NE	NE	NE	NE	NE	4
41	Zucol	24.02. 2021	NE	N E	N E	N E	0	N E	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	N E	N E	N E	N E	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	N E	N E	N E	N E	NE	NE	NE	NE	NE	0
46	Hansa Solution	08.03. 2021	NE	0	0	N E	N E	N E	N E	0	NE	NE	NE	NE	0
47	Toujous Peritus	10.03. 2021	NE	N E	N E	1 2	1	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	N E	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	5

1000			15000			# 7 TO		7000	1000		MA SAN		0.00	100	
50	Technosolis	15.03. 2021	NE	1	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	1
51	ICICI Prudential	20.03. 2021	0	0	0	0	0	0	0	NE	NE	NE	NE	NE	
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	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	2
54	CBNITS	06.04. 2021	2	1	0	N E	N E	N E	N E	0	NE	NE	NE	NE	3
55	Pulsar Rubber	09.04. 2021	NE	N E	N E	N E	N E	N E	1	NE	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	N E	N E	N E	N E	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	N E	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	9
61	Salasar InSurance	27.04. 2021	NE	N E	N E	N E	N E	N E	0	NE	NE	NE	NE	NE	0
62	New Vision Software	2704. 2021	NE	0	0	N E	N E	N E	N E	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

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64	Senrysa Technologies	27.04. 2021	NE	0	0	N E	N E	N E	N E	NE	NE	NE	NE	NE	0
65	Indusnet Technologies	03.05. 2021	0	0	0	N E	N E	N E	N E	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	N E	N E	N E	N E	N E	0	NE	NE	NE	NE	NE	0
70	KEC International	17.05. 2021	NE	N E	N E	1	1	N E	N E	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	N E	N E	N E	N E	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	N E	N E	N E	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	N E	N E	N E	N E	NE	NE	NE	NE	NE	0

No.	St. In Control of the	garnyn a chapt		100	- 81		M. B. Cin	2007	0.000		ALM TO THE	al-Chaptarai	17.76	100	Propietin
78	Stella blue Interactive	20.05. 2021	NE	1	0	N E	N E	N E	N E	NE	NE	NE	NE	NE	1
79	Vedantu	23.06. 2021	NE	N E	N E	N E	N E	N E	1	NE	NE	NE	NE	NE	1
80	ANG	07.07. 2021	NE	N E	N E	4	4	N E	N E	NE	NE	NE	NE	NE	8
81	Huron	09.07. 2021	NE	1	N E	N E	N E	N E	N E	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	N E	N E	N E	N E	NE	NE	NE	NE	NE	1
84	Synpulse	03.07. 2021	NE	1	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	1
85	Maharastra Knowledge corp. Ltd.		NE	1	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	1
86	British Telecom	16.07. 2021	0	1	1	0	N E	1	N E	NE	NE	NE	NE	NE	3
87	ITC Infotech	24.07. 2021	4	2	2		N E	N E	N E	NE	NE	NE	NE	NE	8
88	Integer Telecom	27.07. 2021	NE	N E	N E	N E	2	N E	0	NE	NE	NE	NE	NE	2
89	ACC	10.08. 2021	NE	N E	N E	N E	3	N E	N E	NE	NE	NE	NE	NE	3
90	Tecknowledge	22.10. 2021	NE	N E	N E	N E	N E	N E		NE	NE	NE	NE	NE	0
91	Vodafone Idea	27.10. 2021	1	0	N E	N E	N E	N E	N E	NE	NE	NE	NE	NE	1

	AVE NI III		Ne.						200		N) (188	2000		030
								7,8						
TOTAL Number of Offers		132	19 0	4	6 5	2 9	1 8	2 2	4	0	0	0	0	501

#### **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

