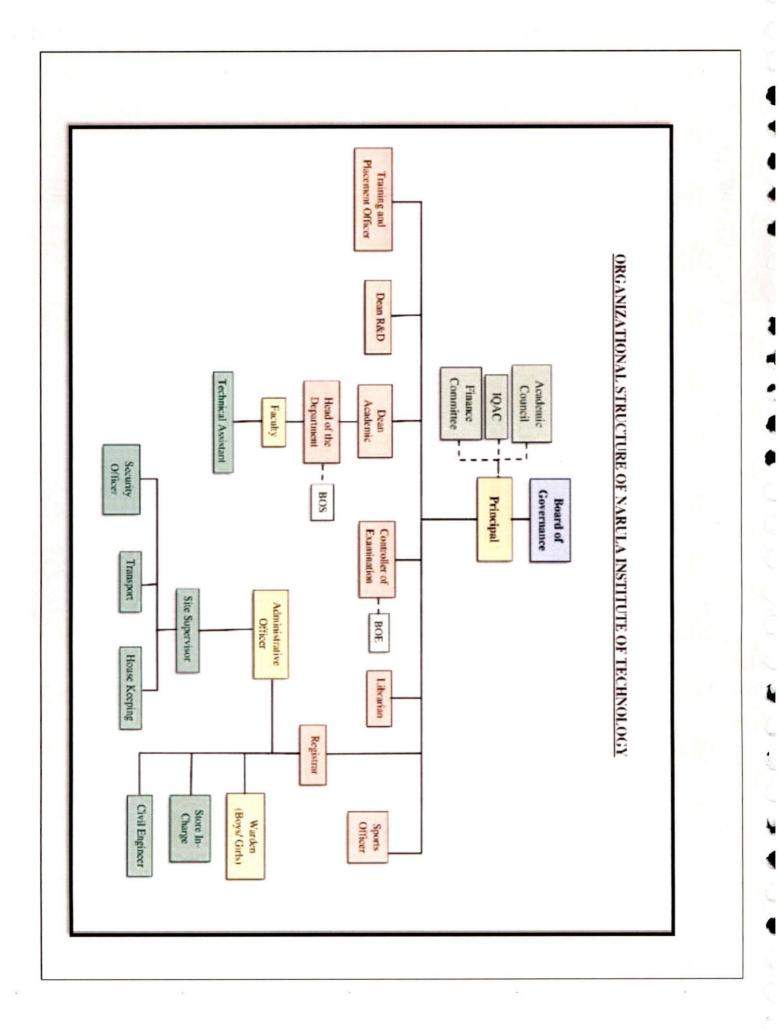


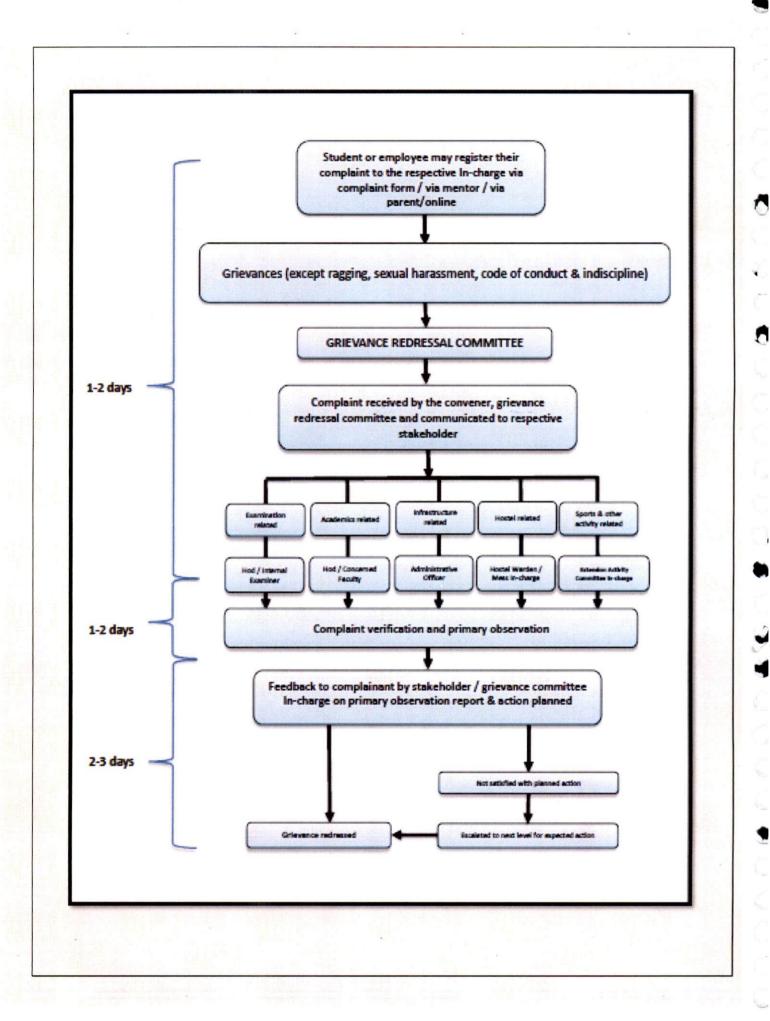
Annual Report

2015-2016



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Principal's Message:

It is my privilege to warmly welcome you to this great institution dedicated It is my privilege to warmly welcome all to the portals of this great institution dedicated to the cause of top quality technical education

with the motto of "taking you to tomorrow's technology". The exemplary infrastructural facilities, the team of highly qualified, experienced and dedicated faculty and supporting staff and the exhilarating atmosphere in the campus will surely take you to enviable heights in your capabilities and achievements.

The Institute offers courses leading to B. Tech. Degree in seven disciplines and MBA, MCA and M.Tech., courses in Electrical Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Microelectronics & VLSI Design and Civil Engineering. Many of the departments have been accreditated by NBA. This College has also been aided by World Bank under prestigious TEQIP Scheme



Prof. M R Kanjilal Principal NiT

This college today is an Autonomous Institute which gives the faculty and its staff to frame its own syllabus and curriculum considering the needs of the society and also to produce Industry ready personalities. The Institute is equipped with state of the art laboratory and workshop facilities, computer facilities, Library and Information Centre, air-conditioned seminar hall, round the clock Internet facilities & separate hostels for Boys and Girls in and around the campus. During the last 16 years nearly 12000 students have graduated and post graduated in various disciplines of engineering and management from our college. Many of our College Alumni are holding good positions in a number of well known organizations, not only in our country but also abroad.

The College encourages 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 Institute has also Environment cell, Entrepreneurship Development Cell and different Professional Students' Chapter in each department which help the students to strengthen their ability in different sectors of life.

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.

Overall mission of the Institute is to produce good human being in the professional world.

Thus I hereby present the Annual Report of 2015-16 on behalf of the Institute

VARULA INSTITUTE OF TECHNOLOGY Principal 81, Nilguni Road, Agarpara, Kol-109

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Chapter 2

About The Institute

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 UGC Act.

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), MBA and MCA. It has expanded to include diploma programs in EE, CE and ECTC under the affiliation of West Bengal State Council of Technical Education.

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, 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 Suzuki. Thus, the cornerstone some recent cultural events organized by Telegraph, Maruti of the successful evolution of Narula Institute of Technology lies in its modern teaching learning process,

Narula Institute of Technology



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 develop responsible citizens who would 'think global and act local' and become the change agents of society to meet the challenges of future.

MISSION

To impart high quality Engineering and Management education to the budding professionals and provide the ambience needed for developing requisite skills to make a mark of excellence in Education, Business and Industry.

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.

Chapter 3

About the Institute (Contd.)

Admission Data

Narula Institute of Technology offers a number of courses ranging from Engineering (B.Tech and M.Tech), Management (MBA) and Computer Application (MCA). Diploma in Engineering in branches of Electronics & Communication Engineering (ECE), Electrical Engineering (EE) 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.

The admission for MBA is through JEMAT and MAT examinations, whereas intake for MCA is through JECA.

The entrance test for Diploma courses is JEXPO.

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

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.

Institutional Events

Spoken Tutorial, IIT Bombay, Project of MHRD, Govt.of India:

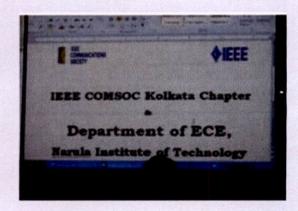
The facility of collaborative lab is provided by IIT Bombay under ministry of MHRD, Govt of India to enrich technical ability of students on recent development.

Tie up with Indian Institute of Remote Sensing, IIRS, Govt.of India, the programs help to upgrade the students about the recent technological developments like: Geospatial technologies for urban planning sponsored by national natural resources management system, Basics of Remote Sensing, GIS and GNSS etc.

Seminar program on the topic of recent researches on wireless ommunication

A seminar program on the topic of recent researches on wireless communication was organized by IEEE COMSOC Kolkata Chapter and Department of ECE, Narula Institute of Technology on 25th July, 2015 from 11 AM to 4 PM. There were series of lectures delivered by experienced academia and Industry professionals.





Seminar program on the topic of recent researches on wireless communication

Speech on "STAAD PRO AND BENTLEY"

Department of Civil Engineering on 18/04/2016 organized a speech on STAAD PRO AND BENTLEY. Mr. Barun Rai requested to our honorable guest to start the session of interaction and discuss about facilities of Bentley and STAAD PRO.

Mr. Anisurva shared the benefits of Bentley Systems and its software. He also emphasized on the fact that, studying is the primary importance to the students and suggested that having knowledge about Civil Engineering software is of prime importance.

He also focussed on the various aspects and visions of Bentley and discussed about the benefits of using STAAD PRO, later on the students asked about their queries, like future with using the software, research scope, which Mr. Anisurya discussed elaborately as much as possible.



Speech on "STAAD PRO AND BENTLEY"

Bidding Adieu 2k16

Bidding Adieu 2k16, the heartfelt tribute to the final year students of Narula Institute of Technology was organized by the 3 year students on May 30th by the Cultural Committee. It was celebrated in a euphoric way and students had tremendous enjoyment. Their gleeful faces reflect the attitude, values and love they share with NiT family.



Bidding Adieu 2k16

Project fair

The Basic Science & Humanities Department of Narula Institute of Technology organized a project fair at its own campus on "Chemical Phenomena and Waste Recycling" on 25th of May, 2016 at 3.00 PM to 5.00 PM sponsored by the Technical Education Quality Improvement Programme (TEQIP). The purpose of the event was to consider the different chemicals and chemical processes with a view to reduce or eliminate negative environmental impacts. The fair was chiefly associated with the exhibition of Physics and Chemistry based projects on recycled materials by



the students of 1st and 2nd year B.Tech. courses. A competition was held separately for Physics and Chemistry projects where best three projects for Physics and Chemistry each have been awarded by a memento and certificate.

Rabindrajayanti Celebration

Tagore was a man ahead of his time. For the world he was the voice of India's heritage, and for us, he is a

great living institution. To commemorate his 155th birthday all the faculty members of Narula Insitute of Technology organized a programme, "Laho Pronam" on 18th of May 2016 at its Auditorium. The faculty members showcased their love and respect for Rabindranath Tagore through various performances composed by their own "Kabi Guru". The program started with a wonderful recitation by the Honorable VC JIS University Prof. Dr. B.C.Mal followed by the lighting of lamp by our own principal Prof. Dr. Maitreyi Kanjilal and an invigorating speech from her where she



emphasized that Rabindranath Tagore flows in the bloodstream of every Bengali. Through a euphoric cultural performance of dance, recitation, musical performances and "Shruti Nattyo" the faculty members celebrated the spirit of universal brotherhood. Rabindranath being a true patriot, the celebration concluded with all faculty members singing the Indian National Anthem Jana gana mana adhinaayaka jaya hay, Bhaaratha Bhaagya Vidhaata"

Tree Day Celebration

The students of Narula Institute of Technology observed National Love A Tree Day inside the campus on May, 16, 2016. The students and faculty members planted trees and took a step towards environmental cleanliness. Love a tree and save a life this was the spirit of the event.



NiT Jewels



"NiT Jewels" the Annual Day celebration was organized by Narula Institute of Technology at the heart of NIT on May 7, 2016. It was observed in a glorified way and the entire programme showcased the essence of Narula Institute of Technology. The award ceremony started with the rendering performance of our musical stalwarts and with the heartiest best wishes from the honorable Principal of NiT, Prof (Dr) M R Kanjilal.

The World Earth Day

The World Earth Day was celebrated on 22nd April, 2016 by the students at Narula Institute of Technology with a pledge to make the Mother Earth safe and clean. A tree plantation drive was organized within the campus and students and the staff members participated for the cause of a green environment. Later in that day around 255 students and faculties voluntarily donated blood to meet the crisis of Blood banks.



Navodaya Celebration

The final day of Navodaya organized by Narula Institute of Technology on 16th April, 2016 witnessed a dazzling show by the students and the guest performers. The college students rocked the stage with group dances and the evening shone brighter with the glittering fireworks and band performance PRACHIR. The fest ended with the rhythm of DJ and a note of true spirit and harmony.



Walk for book rally

The students along with faculty members of Narula Institute of Technology participated in the 'Walk for books' rally as a part of the National Library Week from 10th to 16th April 2016. The Public Affairs Officer and Director, American Center flaged off the "Walk for Books" from American Center to Victoria Memorial (West Gate). The objective of such a programme is to enhance the reading habit of students which is almost becoming an extinct activity among the students. We feel proud to be



a part of this wonderful venture and students of Narula gleefully participated in the programme.

Annual Techno Management Fest Kritanj 2K16

Narula Institute of Technology under the aegis of JIS Group Educational Initiatives witnessed its largest ever Annual Techno Management Fest Kritanj 2K16- Crossroad of Innovation organized by Narula Institute of Technology on 7th & 8th April, 2016. The idea of Kritanj was conceived with the aim to provide the technically inclined youth a successful platform where their talent and expertise would be recognized and duly rewarded.

On this occasion The CII NiT Innovation Club was launched at Narula Institute of Technology in association with CII which aims at developing a fundamental change of instilling the innovation and entrepreneurial attitude and creative thinking at academic and industry level among students.

In this platform students could showcase their projects and ideas through various activities such as hardware and software Project Demonstration and Multimedia Presentation. The Projects were displayed by the budding genius of the school and the technocrats of different colleges which was extremely innovative and flooded with magnificent ideas and were highly appreciated by eminent dignitaries, industry stalwarts and dignified guests. Various events covered under Kritanj-2016 included Robo Ranger, Robo Soccer and Robo War, which were truly exciting and had huge participation. The other fascinating events were: Gaming, Bridge It, Electrocution, Concrete, Cad It, Code It and Add Mad. Kritanj 2016 also had some online events like The Selfie Contest and Treasure Hunt. The most interesting and crowd pulling events were The Takeshi's Castle, Paintball and Zorbing.



Annual Techno Management Fest Kritanj 2K16

Indoor Sports Tournament

Students of Narula Institute of Technology organized 2 days Indoor Sports Tournament for Students and Staff members on 17th & 18th March 2016.





Vishwakarma Puja

The Cultural committee organized Vishwakarma Puja celebration on 18th October 2015. The event took place at the College Workshop and all the students actively participated in the event. Great team spirit was observed from bringing the idol to the immersion of the idol.



Birth anniversary of Swami Vivekananda

The Cultural Committee of Narula Institute of Technology celebrated the birth anniversary of Swami Vivekananda on 12th January 2016 from 3.30pm onwards in the Seminar Hall. Our students observed the day with speech, drama enumerating the sermons and preaching of Swamiji. They dedicated their love and respect through their cultural performances.





Republic Day

On 26th January the 67th Republic Day was observed with passion and dignity at Narula Institute of Technology. The college took initiative of inviting the students from the neighboring primary school. At the end of this solemn event sweets and chocolates were distributed to the school students and they left the premises with a sense of fraternity.



PARICHAY2016, Fresher's welcome

PARICHAY2016, Fresher's welcome was observed on 30th Jan 2016 in the College Campus. 1st year students with pomp and grandeur participated in the event to get themselves acquainted with the culture of the college.





Annual Sports

To keep up the Sports Spirit of our college, students organized Annual Sports in NIT Campus on 1st and 2nd February 2016. Many enthusiastic students participated in the events and showcased their talent. There was loud cheer and jubilation among all the students and faculty members of NiT



Sardar Jodh Singh Challengers Trophy

Sports Club members participated in the Sardar Jodh Singh Challengers Trophy (Student Cricket Tournament 2016) scheduled on 4th & 5th feb (league match) at Gurunanak campus Ground and they won the Trophy. There was a tremendous applause and students were highly excited.



Book Fair Performance

Students of Narula Institute of Technology performed at the JIS Stall in the 40th Book Fair 2016 on 29th Jan, 4th Feb and 5th Feb 2016. It was a grand success. From drama to quiz, musical rendition to dance, band performance to recitation; bewildering performances astounded the bystanders.





Saraswati Puja

All the students of the college celebrated Saraswati Puja in the institute premises on 12th February 2016. The Puja ritual took place at 3:30pm followed by lunch and then brief cultural programme and felicitation of the College Cricket Team (Students) at SJS cricket tournament and cultural performers in the literary meet at the Kolkata Book Fair.

Mini Marathon

The bystanders and the residents at Kamarhati witnessed a brilliant show of harmony on March 8, 2016 when around five -hundred participants ran gleefully in the 3.5 km Mini Marathon organized by Narula Institute of Technology along with all the students, faculty members and staffs. The Marathon echoed the slogan 'Run with gaiety, Pledge for Parity'.8th March Narula Institute of Technology successfully completed Mini Marathon 2016 with the PLEDGE FOR PARITY on International Womens' Day.



Mini Marathon

International Day of Yoga

International Day of Yoga on 21st June 2015 was celebrated within the premises of Narula Institute of Technology premises.



Constitution Day Celebration



On the eve of the "Constitution Day" on 26th November 2015 a program on Indian Constitution was arranged at Narula Institute of Technology.

Student Centric 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.

A documentation of such yearly activities is provided herewith.

Soft Skills

Soft Skill Training are organized 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 value-added programs. Career Development Programs are also conductedon a regular basis for value addition in the lives of our students.

Name of the capability enhancement program	Date	Name of the agencies/consultants	Objectiv e
Soft Skill Training - CE 1styear	23-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancem ent ofsoft skill
Soft Skill Training - EIE 1styear	21-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancem ent ofsoft skill

Soft Skill Training- EE 1styear Sec B	18-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancem ent ofsoft skill
Soft Skill Training - EE 1st year Sec A	18-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skill
Soft Skill Training - ME 1styear	16-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancem ent ofsoft skill
Soft Skill Training - IT 1st year	14-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skill
Soft Skill Training - ECE 1st year Sec B	10-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancem ent ofsoft skill
Soft Skill Training- ECE 1st year Sec A	07-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancem ent ofsoft skill
Soft Skill Training- CSE 1st year Sec B	03-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skill
Soft Skill Training-CSE 1styear Sec A	01-09-2015	Mr. Tapas Mukherjee, Target Education	Enhancem ent ofsoft skill
Soft Skill Training- MCA and M. Tech	17-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skill
Soft Skill Training- IT 3rdyear and EIE 3rdyear	16-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancem ent ofsoft skill
Soft Skill Training- EE 3rdyear Sec B	15-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhanceme nt of soft skill
Soft Skill Training- EE 3rdyear Sec A	14-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancem ent ofsoft skill
Soft Skill Training- CE 3rdyear Sec B	13-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhanceme nt of soft skill
Soft Skill Training- CE 3rdyear Sec A	10-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skill

Soft Skill Training- ECE 3rdyear Sec B	09-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skill
Soft Skill Training- ECE 3rdyear Sec A	08-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skill
Soft Skill Training- CSE 3rd year Sec B	07-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skill
Soft Skill Training-CSE 3rdyear Sec A	06-07-2015	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skill



Soft Skill Training -CE



Soft Skill Training - EE (B. TECH) conducted on 15-07-15

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 fromacademics 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	Name of the agencies/consultants	Objective
Language and communication skills Training - CSE 1st year Sec B	25-01-2016	Dr. Leena Sarkar Bhaduri, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - ECE 1st year Sec A	22-01-2016	Dr. Leena Sarkar Bhaduri, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - CSE 1st year Sec A	21-01-2016	Dr. Leena Sarkar Bhaduri, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - ECE 1st year Sec B	20-01-2016	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - EE 1st year Sec B	19-01-2016	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - EE 1st year Sec A	18-01-2016	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - EIE 1st year	15-01-2016	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills

Language and communication skills Training - CE 1st year Sec B	14-01-2016	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - CE 1st year Sec A	13-01-2016	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - IT Ist year	12-01-2016	Dr. Leena Sarkar Bhaduri, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training - ME Ist year	11-01-2016	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills





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.

Name of the capability enhancement program	Date	Name of the agencies/consultants	Objective
International Yoga Day	21-06-2016	Mr. Peenaz Reza, Yoga Trainer	Enhancing physica and mental health
Blood donation Camp	22-04-2016	Dr Nikhilesh Sil, Narula Institute of Technology	Responsibility towards society
Session on Yoga MCA	18-09-2015	Mr. Peenaz Reza, Yoga Trainer	Enhancing physica and mental health
Awareness on Plastic Free Campus	13-08-2015	Dr Nikhilesh Sil, Narula Institute of Technology	Awareness abou green campus
Session on Yoga ECE- Ist year	20-08-2015	Mr. Peenaz Reza, Yoga Trainer	Enhancing physica and mental health
Session on Yoga CSE- Ist year	19-08-2015	Mr. Peenaz Reza, Yoga Trainer	Enhancing physica and mental health
Session on Yoga ME and IT- Ist year	19-08-2015	Mr. Peenaz Reza, Yoga Trainer	Enhancing physica and mental health
Session on Yoga EIE and CE- Ist year	18-08-2015	Mr. Peenaz Reza, Yoga Trainer	Enhancing physica and mental health
Session on Yoga EE- Ist year	18-08-2015	Mr. Peenaz Reza, Yoga Trainer	Enhancing physica and mental health
Session on Yoga MCA	03-08-2015	Mr. Peenaz Reza, Yoga Trainer	Enhancing physica and mental health
Swachh Bharat Abhiyaan	20-07-2015	Dr Nikhilesh Sil, Narula Institute of Technology	Cleanliness and Hygiene



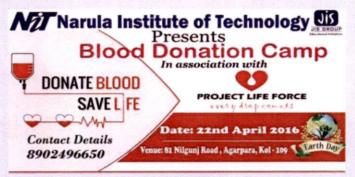
Yoga Session

Yoga session are organised for improvement of physical and mental health.



Students performing Aasanas conducted on 21-06-16 Blood donation Camp Blood donation camp was organized to make students aware about noble acts of humanity andmake them responsible citizens.

Blood Donation Camp conducted on 22-04-16





Glimpses of Blood Donation Camp conducted on 22-04-16

Swine Flu Awareness Program

Institute took an initiative to create a Swine Flu awareness program among the school children. Students along with faculty members visited various schools to spread awareness among the school children.



Glimpses of Swine Flu Awareness Program conducted on 23-09-15

Swacch Bharat Abhiyan

Institute organized Swacch Bharat Abhiyan to make students learn the significance of cleanliness. They cleaned classrooms, hostels, college premises and adjoining areas.



Students participating in Swacch Bharat Abhiyaan conducted on 20-07-



Students participating in Swacch Bharat Abhiyaan conducted on 20-07-15



Trends in Technology

Technical seminars and workshops 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. 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
Industrial Visit to Sukhobristi Complex Group II	10-05-2016	Sukhobristi Complex, Rajarhat	Knowledge gain about the practical implementation of the latest technology
Industrial Visit to Sukhobristi Complex Group I	09-05-2016	Sukhobristi Complex, Rajarhat	Knowledge gain about the practical implementation of the latest technology
Industrial Visit at MSME Tool Room, Bonhooghly	04-05-2016	M. Rama Rao, MSME Tool Room (micro small and medium enterprises, Bonhoogly	Knowledge gain about the practical implementation of the latesttechnology
Industrial Visit to EJobIndia - MCA	18-04-2016	Sourav Kundu, Ejob India	Knowledge gain about the practical implementation of the latest technology
Seminar on Advancement of Power Electronics in Industrial Motor Control	27-04-2016	Dr. Debashis Chatterjee, Professor, Electrical Engineering Department, Jadavpur University	Knowledge gain about advancement of power electronics
Workshop on Nano material to opportunities Abroad	05-04-2016 - 06-04-2016	Prof. Mallar Roy, School of Engineering and Sciences, Technology de Monterrey, Mexico	Knowledge of Nano material

Industrial Visit to Doordarshan Kendra ECE Gr II	05-04-2016	Doordarshan Kendra, Golf green, Kolkata	Knowledge gain about the practical implementation of the latest technology
Industrial Visit to Doordarshan Kendra ECE Gr I	04-04-2016	Doordarshan Kendra, Golf green, Kolkata	Knowledge gain about the practical implementation of the latest technology
Technical Seminar on High Level Synthesis using ASAP & ALAP Algorithm	18-03-2016	Dr. Saradindu Panda, Narula Institute of Technology	Knowledge about high level synthesis using ASA and ALAP algorithm
Technical Seminar on Basics of Semiconductors	04-03-2016	Mr. Surajit Bari, Narula Institute of Technology	Understanding of semiconductors
Technical Seminar on An Appreciation of Nanophotonics: The Promise of Photonic Bandgap Material and Plasmasonic	22-02-2016	Prof. (Dr.) Raghunath Bhattacharya, Emeritus Scientist, National Physical Laboratory	Knowledge of appreciation of nanophotonics
Industrial Visit at Mega Thermal Power Plan EIE Group II	17-02-2016	D Chowdhury, Mega Thermal Power Plant	Knowledge gain about the practical implementation of the latest technology
Industrial Visit at Mega Thermal Power Plan EIE Group I	16-02-2016	D Chowdhury, Mega Thermal Power Plant	Knowledge gain about the practical implementation of the latest technology
Technical Seminar on Satellite Communication & Remote Sensing	05-02-2016	Dr. A. Pal, Associate Professor, Institute of Radio Physics and Electronics, S.K. Mitra, Center for Research in Space Environment, University of Calcutta	Knowledge about satellite communication

Narula Institute of Technology



Industrial Technical Seminar on dSPACE Controllers with dSPACE Hardwares	29-01-2016	Avdesh P.S. Gautam, Member Technical-DFT Embeded, Dspace	Knowledge gain about dSPACE controllers with dSPACE hardwares
Industrial visit at Bandel Thermal Power Station EE Group II	20-01-2016	Mr. Samiran Dey, Senior Manager, Technical Antenna - SLW, Schneider Electric	Knowledge gain about the practical implementation of the latest technology
Industrial visit at Bandel Thermal Power Station EE Group I	19-01-2016	Mr. Samiran Dey, Senior Manager, Technical Antenna - SLW, Schneider Electric	Knowledge gain about the practical implementation of the latest technology
Seminar on MEMS & Sensor Design	13-01-2016	Mr. Sugato Ghosh, Research Associate, IIEST	Knowledge enhancement of MEMS
Industrial Visit to TechTree Technologies CSE Group II	09-11-2015	Mr Anirban Banerjee, TechTree Technologies, Kolkata	Knowledge gain about the practical implementation of the latest technology
Software Training	04-11-2015	Ms. Sujata Kundu, Narula Institute of Technology	Knowledge gain about software
Workshop on Advanced Welding	20-10-2015 21-10-2015	Prof. P. K Bardhan, JIS Collage of Engineering	Knowledge gain of advanced welding

Industrial Visit to EJobIndia - IT Gr II	07-10-2015	Sourav Kundu, Ejob India	Knowledge gain about the practical implementation of the latest technology
Industrial Visit to EJobIndia - IT Gr I	06-10-2015	Sourav Kundu, Ejob India	Knowledge gain about the practical implementation of the latest technology
Industrial Seminar on Recent Trends in Personal Safety	06-10-2015	Mr. Samiran Dey, Senior Manager (Technical Antenna - SLW), Schneider Electric	Knowledge gain about recent trend in personal safety
Industrial Visit to MSME (Micro, Small and Medium Enterprises) Central Tool Room and Training Centre ECE Group II	23-09-2015	M. Rama Rao, MSME Tool Room (micro small and medium enterprises, Bonhoogly	Knowledge gain about the practical implementation of the latest technology
Industrial Visit to MSME (Micro, Small and Medium Enterprises) Central Tool Room and Training Centre ECE Group I	21-09-2015	M. Rama Rao, MSME Tool Room (micro small and medium enterprises), Bonhoogly	Knowledge gain about the practical implementation of the latest technology
Industrial Visit at TSR Enterprise	12-09-2015	Mr Dipu Sarkar, Narula Institute of Technology	Knowledge gain about the practical implementation of the latest technology
Technical session on Development of communication in the wireless technology and beyond	05-09-2015	Prof. S.K.Sanyal, Chairman, CAS Chapter, IEEE Kolkata Section	Knowledge gain of communication in the wireless technology

Workshop on Power System Protection Technology	22-08-2015	Mr. Abhijit Bose, Executive Director, CESC Ltd	Knowledge of power system protection technology
Seminar on Recent Researches on Wireless communication	25-07-2015	Prof. (Dr.) Salil Kumar Sanyal, Jadavpur University	Knowledge of recent researches on wireless communication
Workshop on Linux Overview and Linux System Administration	01-07-2015-13- 07-2015	Prof. Kousik Dasgupta, Kalyani Govt. Engg.College	Knowledge of Linux system administration
Industrial Visit to TechTree Technologies CSE Group I	08-07-2015	Mr Anirban Banerjee, TechTree Technologies	Knowledge gain about the practical implementation the latest technology
Industrial Visit to Indian Space Research Organization (RRSC ISRO)	06-07-2015	Ms. Debrupa Pal, Narula Institute of Technology	Awareness of digitally empowered society
Workshop on Application of PLC in Industry	02-07-2015	Mr. Avshek Mallik, ECL Technology	Knowledge of application of PLC in industry





Glimpses of Industrial Visit to Sukhobristi Complex conducted on 09-05-16



Industrial Visit at TSR Enterprise conducted on 12-09-15



ORIENTATIONPROGRAMME FOR 1ST YEAR STUDENTS

Induction Programme 2016 for the 1st year students

The one week Induction Programme IP2K16 for the 1" year students (B.Tech, BBA, BCA and Diploma) in Narula Institute of Technology achieved its aim in making the newcomers familiarize with the culture of the institute. The sole objective of the event was to give the students a bird's eye view about the various dimensions of the respective curriculum and to acquaint them with the system and activities of the college.



The inaugural session commenced on 1st August with an inaugural hymn which was followed by the



honourable Principal Dr.M.R.Kanjilal's address to the gathering. Thereafter she introduced all the departmental HODs to the students. Later Ms.Nidhi Singh, Registrar of the institute delivered a presentation where she explained about the various facilities and norms of the college. Later Prof. (Dr) J.K.Das, advisor to Narula Institute of Technology, greeted the students. The session witnessed the assembly of 2016 pass out students who shared their four years of

experience at the college campus and with immense pride spoke of their placement in reputed concerns.

Day-II,2nd August :The students received a foreword in context to the subjects they would learn in their



1" year, Dr.Sushmita Karan gave an overview of the Basic Physics while Dr. Rupa Bhattacharyya explained the importance of Chemistry in Engineering. Dr.Debjani Chakraborty and Mr.Gautam Roy focused on the syllabus of Mathematics and Mechanical Science respectively. It was followed by the presentation from Mr.Sudhnshu Sarkar ,Mr.Surajit Bari & Mr.Kaushik Sarkar and they highlighted the importance of Basic Electrical & Basic Electronics subjects to all the future engineers. The subject of Computer fundamentals was delivered by

Dr.Kunal Ghosh. The final speaker of the session was Prof.Dr.Tanmoy Ghosh, Associate Professor, English Department, University of Calcutta who discussed the importance of English communication for Employability. The Diploma students were also addressed by the departmental subject experts. Dr.Indrani. Sarkar-Physics, Dr. Sarbani Ganguly-Chemistry, Dr. Nikhilesh Sil-Mathematics, Mr. Argha Gupta-Mechanical sciences, Bhadari-English, Ms. Dipu Electrical, Mistri-Basic



Mr.Soumen Pal-Basic Electronics and Dr.Kunal Ghosh-Introduction to computer. All the resource persons spoke about the importance of the respective subjects.

Day III, 3rd August: The morning session commenced with a lecture from Dr.Sumit Nandi, HOD, BSHU on Water: Lifeline of Human Beings on Earth. The student representatives from 4th year gave a



PowerPoint presentation on the various academic and infrastructural facilities and activities related to Students' Life centre. They encouraged participation from the 1st year in the coming days. The student representatives of Hostel and antiragging squad shared their experiences and assured the newcomers with firm conviction that Narula Institute of Technology is a ragging free campus. In the second half the

students got an idea about Entrepreneurship from Ms.Nilanjana Mukherjeee, alumni of the college who is presently a successful entrepreneur at Universal Sales. The third day of Induction programme reached its zenith in the concluding period which was conducted by Swami Vedatitananda from Belur Math Ramkrishna Mission Silpamandir. His discourse was on Ethics & Moral responsibilities of students. The students left the auditorium with a high spirit.

The Diploma students went through a thought provoking session titled" Where does our food come from":a presentation by Human Society International.

Day-IV, 4th August: The title of the session was Glimpse of Industry life:preparing to be a successful professional and the resource persons from the eminent companies like Vodafone and INSDAG,



presented their views on how to be industry ready. During the first half Mr.Arka Roy Choudhuri, Quality Control manager. RDS Technotic solutions ltd had an interactive session with the students which was followed by Ms.Ditipriya Ghosh, Trainee engineer .Vodafone who shared valuable information related to taking preparations for GATE and such other competitive examinations. She focused on the kind of interview rounds that the students need to undergo. The Training & Placement cell of the institute presented the process of extensive training which

helps a job aspirant to fulfill his dreams.

Later in the session Prof.P.K.Banerjee, advisor to JIS group had a brilliant interactive session with the students and gave them useful tips in order to meet their desired career objectives. The second session was commenced with the presentation of Mr.Debasish Choudhury, Vice President, Technical, R & D, Megatherm Pvt.Ltd. It was followed by the scholarly address of Mr. Debashis Datta, Asst. General Manager, INSDAG, Kolkata. The final conclave was on Environmental Ethics and Global changes which was delivered by Kakali B.Chakraborty, Graduate Teaching & Research Assistant.

The Diploma students were addressed by Mr.Sreemanta Datta, Former Chief Designer, Tractors India and is presently in the Mechanical Engineering department of the college. The students enthusiastically participated in a poster making competition based on the last day's presentation on 'Where does our food come from'.

Day-V. 5th August: The last day of the Induction was on a lighter note and witnessed a dazzling cultural performance by the senior students. The newcomers were inspired and came forward to participate in the cultural activities and added vigour to the event.



Day-VI 6th August: The institute invited the guardians of all the 1th year B. Tech students to take part in



an open house session to satisfy their queries and to give them an idea about the different academic and disciplinary norms of the college. The meeting commenced with a presentation from the college about the different academic facilities and co-curricular activities which helps a student to shape their personality and make a bright career. The session was attended by the honourable Principal Dr.M.R.Kanjilal, Registrar, Ms.Nidhi Singh and all the Head of the Department and the 1st year faculty coordinators from the respective departments. There was an overwhelming response

from the respected guardians. The Guardians thanked the college authority for their initiative and shared their valuable views on various issues. They left the seminar hall with a feeling of satisfaction and high hopes.

Induction Programme for 2015 First Year



The 4-days Induction Programme for the 1st year students of B.Tech. course Narula Technology came to an end Friday, the 7th August,



2015. The sole objective of the event was to give the newcomers a bird's eye view about the various dimensions of the respective



curriculum and to acquaint them with the system and activities of the college.





Alumni Report

The Narula Institute of Technology, Kolkata conducted its 2nd Alumni Meet on 26th of September, 2015 and needless to say it was a huge success. In the Alumni Meet of NIT Graduates, the Association President Ms.SagarikaChowdhury, called upon the fellow members to foster the junior students. The meet was well attended by more than 60 alumni ranging across various batches. Function started at 5.00 P.M. with lighting of the lamp by the NIT Principal Prof. (Dr.) M. R. Kanjilal. She blessed the alumni with his motivating words and extended a very warm, cordial and affectionate welcome to all the Alumni and their families. The Inaugural session was also attended by various Deans, Registrar, HODs, and faculty and staffmembers of NIT.

Many senior Alumni members like Mr. Rahul Dutta (1st batch), Mr.DibyadyutiChakrabarti (1st batch) and others in their address to the fellow members appreciated the growth of the NIT and also promised that they would interact with the students at short intervals in a team. This will not only help the pre-final and outgoing students in facing the interviews more successfully but this will help them realize the industry expectations.



Summary

The President of Alumni association, Ms.SagarikaChowdhury welcomed the alumni and their family members in the campus and appreciated their zeal to assemble here. After lighting the lamp and officially inaugurating the ceremony, Prof.(Dr.) M.R. Kanjilal, Principal, NIT extends his warm welcome to each of the alumni members and their family. The Registrar of NIT Ms. Nidhi Singh also extended her warm gratitude to the members and be a part of the program till end.

The Alumni association planned to felicitate Mr. Taranjit Singh, MD, JIS Group. But due to some last minute urgency, He failed to attend the program, but blessed all for the grand success of the event. The association also felicitate Principal and Registrar of NIT with a 'Uttorio', flower bouquet and a memento. The meet started from 3:00PM onwards followed by Dinner with all the Alumni right from the first batch to the most recent batch.

Many of the HODs, Deans, Faculty and staff members of NIT attended the meet and enjoyed it with their family members.

The alumni member interacted with the departmental faculty member and HOD. In addition to this they have interacted with present students of the department. Then The Inaugural session was followed by a cultural programme by our students and as well as by the alumni. The 1st band of our Institute "SUKTARA" performed and the evening was magnificent. Many of the current students were also seen interacting with their pass out seniors and learning from their experiences. The sound and light was amazing. In all, the ambience was electric when people were seen chatting and enjoying themselves in groups.









Academic Tie-up with Asian Institute of Technology Bangkok

JIS Group Educational Initiatives had signed a Memorandum of Understanding with Asian Institute of Technology, Bangkok, to pursue, promote and reinforce cooperation in the common interests of teaching, training and research. The main objective of this union was to help the technologically rapt students pursuing their bachelor's degree in engineering to interact with qualified and committed professionals.

The collaboration aims to foster advancement in training, teaching, research and cultural understanding. Carrying forward this initiative, 2016 started with 17 students of Narula Institute of Technology (from EE, ECE, CSE, CE, ME and IT departments) selected through rigorous scrutiny and selection examination, getting the opportunity to explore this experience and knowledge at Asian

Institution of Technology, Thailand. Two faculty members were to guide and support these students. The students were imparted lessons on the following topics:

- Geographical Information System (GIS). Its applications and usage, importance of teamwork
- Augmented reality (AR) Computer Graphics
- Urban & Environmental Management. Computer Graphics
- How to give effective presentations

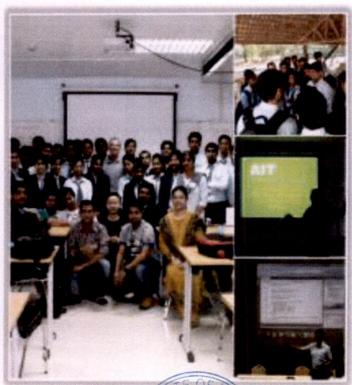












CHAPTER 4

INFRASTRUCTURE

DEPARTMENTAL LABORATORIES

Dept Name			Brief Description
	316K	1. 33 HCL version PC Processor: Intel Core 2 duo E7500@ 2.93 GHz, 1066 MHz FSB, 3 MB L2 cache, Memory:1 GB DDR2 800MHz, Chipset: Intel G41, 250 GB SATA HDD, 22X DVD Writer, 15.6" TFT Monitor, HCL Multimedia Keyboard, HCL Optical Scroll Mouse	Programming Lab
		2. 1 CISCO Catalyst 2950 Network Switch.	
CSE	316L	 34 ACER VERITON PC WITH INTEL PENTIUM G640 2.8 GHz PROCESSOR, 2 GB RAM, 500 GB HDD, 18.5" TFT Monitor. 1 ACER VERITON (with altered parts) PC with E7500 PROCESSOR, 1 GB RAM, 250 GB HDD, 18.5" TFT Monitor. CISCO Catalyst 2950 Network Switch. 	Networking and Operating System Lab
	3160	1. 30 HCL version PC Processor: Intel Core 2 duo E7500@ 2.93 GHz, 1066 MHz FSB, 3 MB L2 cache, Memory: 1 GB DDR2 800 MHz, Chipset: Intel G41, 250 GB SATA HDD, 22X DVD Writer, 15.6" TFT Monitor, HCL Multimedia Keyboard, HCL Optical Scroll Mouse 2. 1 CISCO Catalyst 2950 Network Switch.	Object Technology Lab
	316F	Computer Set-34 nos 1) HP Computer Set -31 Nos Intel Core 2 Duo 2.93 Hz G31 chipset MB 160 GB HDD 1 GB DDR2 RAM	DBMS Lab

DVD RW,15.6" Monitor 2) HCL Computer Set-3Nos Intel core2 Duo 2,93Hz G41 Chipset MB 250 GB SATA HDD 15.6" Monitor 3) Edge Switch-1 No Cisco Make[Catalyst2950] Software 1) C /C++ Compiler 2) Oracle 9i 3) Jdk Computer Set-33 nos. Programming Lab 1) Wipro Computer Set -1 Nos CPU E7500 Intel Core 2 Duo 2,93 Hz G41 chipset MB 320 GB HDD 1 GB DDR3RAM 19" TFT Monitor 2) Dell Computer Set-32 Nos CPU i3-4160T 3.10 GHZ 500 GB HDD 4GB RAM Dell TFL Monitor 3) Edge Switch-1 No Cisco Make[Catalyst2950] Software 4) C /C++ Compiler 5) Oracle 9i 6) Jdk 1) HCL Computer set (Desktop PC): 18 nos Processor: AMD ALTHMONG 3800 plus processor Memory: 2 GB RAM Chipset: MSI Motherboard, 120 GB HDD, 16x DVD ROM, HCL Multimedia Keyboard, HCL Optical Scroll Mouse, 15" TFT HCL Monitor 2) Network Switch: 2 nos 16 por NET GEAR 24 port ZYXEL 1 VALRACK 2 patch panel Structured cabin 3) 1/0 Box: 34 nos				
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HCL Multimedia Keyboard, HCL Optical Scroll Mouse, 15" TFT HCL Monitor 2) Network Switch: 2 nos 16 port NET GEAR 24 port ZYXEL 1 VALRACK 2 patch panel Structured cabin				
HCL Optical Scroll Mouse, 15" TFT HCL Monitor 2) Network Switch: 2 nos 16 port NET GEAR 24 port ZYXEL 1 VALRACK 2 patch panel Structured cabin		24.00		
15" TFT HCL Monitor 2) Network Switch: 2 nos 16 port NET GEAR 24 port ZYXEL 1 VALRACK 2 patch panel Structured cabin		316R		
2) Network Switch: 2 nos 16 port NET GEAR 24 port ZYXEL 1 VALRACK 2 patch panel Structured cabin				
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24 port ZYXEL 1 VALRACK 2 patch panel Structured cabin				
1 VALRACK 2 patch panel Structured cabin				
2 patch panel Structured cabin				
Structured cabin			그래에 가장에 가장하게 되면 하는데 가장에 가장이 되었다면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 이번에 하는데	
	100		6	
3) I/O DOX. 34 IIOS	L h			
D-Link DCEIOSMxxxxxx				121
D-LIIIK DCEIOSIVIXXXXXX (6)			D-EIIK DCEIOSIVIXXXXXX (6)	1/2/

		Information Outlet Cat sc Single Software: Window XP,Fedora14, TC++, Visual Studio 6.0, MS-Office	
EIE	INDUSTRIAL INSTRUMENTA TION LAB EI591	1. FLOW METERS: ORRIFICE, DIFFERENTIAL TRANSMETER 2. CAPACITIVE LEVEL TRANSMITTER 3. BUFFLE FURNACE 4. VISCOSITY MEASUREMENT 5. MOISTURE MEASUREMENT 6.6 1/2 DIGIT MULTIMETERS, DIGITAL STORAGE OSCILLOSCOPE	BUFFLE FURNACE, MOISTURE MEASUREMENT , VISCOSITY MEASUREMENT CAN BE PERFORMED IN THIS LABORATORY. ELECTRONIC INDICATOR DISPLAY PLANELS ARE ATTACHED TO EVERY INDUSTRIAL SETUP. THE PROCESS PARAMETERS ARE INTERFACED WITH THE PERSONAL COMPUTERS WITH NATIONAL INSTRUMENT BASED DATA AQUISITION CARDS. FURTHER DATA ANALYSIS CAN BE PERFORMED USING NI LABVIEW SOFTWARE.
EIE	SENSORS AND TRANSDUCERS LAB E1592	1. NATIONAL INSTRUMENTATION DATA ACQUISITION SYSTEMS 2. LABVIEW SOFTWARE 3. SMART SENSORS LIKE AD590,LDR, LOAD CELLS,CAPACITIVE TRANSDUCERS,	SENSORS AND TRANSDUCERS LABORATORY IS ONE OF THE SOFISTICATED LABORATORY

		LVTD	OF
		4.DIGITAL STORAGE OSCILLOSCOPE,	ELECTRONICS
		MULTIMETERS,	AND
		FUNCTION GENERATORS	INSTRUMENTA
		Tenerior de l'entre	TION
			DEPARTMENT.
			THE
			LABORATORY
			IS DESIGNED
			ON
Special			THE CONCEPT
			OF VIRTUAL
			INSTRUMENTA
			TION.
			MEASUREMENT
			AND
			CALIBRATION
150			OF VARIOUS
			SMART
			SENSORS WITH
			THEIR
			REQUIRED
			COMPLETE
			SETUP ARE
			PERFORMED
			AND THE
			NATIONAL
			INSTRUMENT
			DATA
			AQUISITION
			CARDS ARE
			INTERFACED
			WITH
			PERSONAL
			COMPUTERS.
			DATA
			ANALYSIS IS
			PERFORMED BY
			LABVIEW
1.0			SOFTWARE IS
			INSTALLED IN
			THE PERSONAL
			COMPUTERS.
	MICROPROCE	1. MICROPROCESSORS: 8085, 8086 WITH	LED MODULE,
	SSORS	PERIFERALS LIKE	7-SEGMENT
	AND	SERVO MOTORS, STEPPER	DISPLAY
EIE	MICROCONTR	MOTORS, SEVEN SEGMENT	MODULE,
	OLLER	DISPLAYS	STEPPER
	LAB	2. MICROCONTROLLERS: 8051 WITH	MOTOR &
	(EI 492,EI692)	PERIFERALS LIKE	SERVO MOTOR

		SERVO MOTORS,STEPPER	MODULE ETC
		MOTORS,SEVEN SEGMENT	EXPERIMENT
		DISPLAYS	
		. (1981년 - 전기 : 1982년 -	CAN ALSO BE
		7. PERSONAL COMPUTERS	PERFOMED ON
			MICROCONTRO
			LLERS (8051)
			WHICH ARE
			INTERFACED
			WITH
			PERIPHERALS
			LIKE LED
			MODULE,
			7-SEGMENT
			DISPLAY
			MODULE,
			STEPPER
			MOTOR &
			SERVO MOTOR
			MODULE ETC.
			IN THIS
			LABORATORY
			SEVERAL
			MICROCONTRO
			LLER BASED
			PROJECTS ARE
			DESIGNED AND
			IMPLEMENTED
		C to I all	
		Centre Lathe	4'-6" Bed length,
			Semi Norton type
			Centre Lathe.
			High precision
			semi automatic
			lathe.
		Drill Machine	25 mm Drilling
		Dilli Macilile	Capacity
		B II I B III I I I	
		Radial Drill Machine	25 mm capacity;
			Geared
ME	WORKSHOP	Shaping Machine	12" stroke length;
and the second			V- belt power
			transmission, 1.5
	150		HP
		Universal Milling Machine	U.M.M having
			longitudinal feed
E-1-2			of table automatic
			(30" 7")
		Power saw	6" dia cutting
		I FUWEI SAW	o dia cutting
			canacity
	1000 - 100 新夏斯·雷	Bench Grinding	capacity 73.33kw;50HZ;1.4

	Amps
Arc Welding Setup	350A; 40-60V
Spot welding setup	Resistance
	Welding
MIG welding setup	MIG 250
Name Of Equipments/Software	
Name of Equipements/Software	Brief Description
Sand Rammer	Preparation of
Sand Rammer	Moulding Sand
	Kelsons
Compression Machine	Compressibility test
Compression Machine	of moulding
	Sand Kelsons
Permeability test	Permeability test of
	Moulding Sand
	Versatile Equipmen
Bomb Calorimeter	Capacity of bomb
	calorimeter-
	650cc, working
	pressure-200atm.
Multicylinder Petrol Engine	ISUZU make, four
	stroke,four cylinder
	automotive petrol
	engine developing
	BHP at 2000 rpm.
Catalytic Converter	Ribbed body OEM
	heat shield catalytic
	converter with hone
	comb catalyst.
MPFI system	Self started MPFI
	engine system with
	ECM box circuit.
Electric Dynamometer	Type AV1, Bore:
Diceric Dynamometer	87.5 mm, Stroke:
	110 mm, R.P.M:
	1500, BHP: 5, Lub
	oil Capacity: 3.7 ltr
Valuatimina diagram Study agrantus	on Capacity. 5.7 Itr
Valve timing diagram Study apparatus	Cincol to be also
Capacity of bomb calorimeter- 650cc, working	Finned tube air
pressure- 200atm.	cooled condenser
	with fan &
	thermostatic
	expansion valve,
	refrigerant -R134a.
ISUZU make, four stroke, four cylinder	43 Litrs, forced
automotive petrol engine	convection type wit
developing 10 BHP at	semi conductor MS
The state of the s	& fibre cooler.

		2000 rpm.	
		Ribbed body OEM heat shield catalytic converter with honey comb catalyst.	Compressor- using refrigerant R-134a,Finned tube-200x200mm.
ME		Determination of Hydraulic co efficient	Dia 10mm orifice Measuring tank 0.5*0.4*0.3mm
	FLUID MECHANICS LAB	Calibration of orifice and venturimeter	Venturimeter: Inlet dia 20mm, throat 10mm Oriffice meter inlet dia 20 mm Vena contracta 10 mm
		V-Notch	Rectangular notch// Tringular V 90 degree
		Centrifugal pump	1 HP; 300*400*400mm tank
		Reciprocating Pump	Casing:Stainless steel; Runner: Cast Bronze Shaft: Stainless steel Rated Supply: 40 meters; Discharge 400 rpm, Normal Speed 1000 rpm
		Pelton turbine	Spiral Casing Cast Iron Runner Bronze; Guide Vane Mechanism Plated EN 8 Steel
		Francis Turbine	Size 50X15 Area ratio: 0.35

		Venturimeter: Inlet dia 40 mm
		Throat dia 23.66 mm
	Hydraulic RAM Test RIG (Closed Circuit)	Two cylinders with 45 cm height and dia 15 cm. With nine pipes attached and dia 10 mm
	To verify Bernoulli's theorem	Weight carried 4.25kg
	Metacentric height of a floating vessel	Casing:Stainless steel; Runner: Cast Bronze
		Shaft: Stainless steel
		Rated Supply: 40 meters; Discharge 400 rpm, Normal Speed 1000 rpm
	Double stage air compressor test RIG	Double cylinder double stage with displacement of about 250 LPM and to work again a max pressure of 10 kg/sq. cm
HEAT TRANSFER	Combine throttling and separating calorimeter	Boiler delivering a continuous flow of steam at min pressure of 4kg/cm ² Size: 525 mm X 450 mm height
	Thermal conductivity of metal bar testing set up	Metal bar- dia: 25 mm with 8 thermocouple
	Thermal conductivity of insulating powder	Inner sphere dia: 100 mm And Outter sphere dia: 200 mm
	Equipment for heat transfer from pin fin	Chanel 150 mm X 100mm X 1000 mm with three fins of MS brass and Al
	Emissivity measurement apparatus	Test plate and black plate- 160 mm dia each,
	Parallel flow and counter flow heat exchanger	Inner Cu tube- I.D 12.7 mm and outer G.I pipe – I.D 15 mm and 1.5 m length, capacity of geyser 3kN

	6 Axis Robot	Axis 6 Nos
		Link 1 300 mm
		Link 2 300 mm
ADVANCE		Timing belt drive
MANUFACTURING		Proximity Switch
		50kg
		500mm/min
		1kg
	Universal testing machine with	Loading unit with 1 jaw set for the range 10-25 dia
MATERIAL TESTING LAB	accessories	Connection pipes (kept inside the control unit)
	Impact testing Machine	For IZOD and Charpy test capacity 170 and 300 Joules respectively, Model PMT 8
	Torsion Testing	For rods Capacity 50 Kg meter,
	Machine	Model PMT 9d Loading unit with Gear box
	Closely Coiled Helical Spring testing Machine	Capacity 200 kg manually operate for tension & compression of Helical spring
	Fatigue testing machine	Max bending moment 200-400 kg cm, Testing dia-8mm, length - 226mm,rotating speed-4200 rpm,
HEAT TREATMENT FURNACE	To change the material property of a material	Temperature Range:1000°C / 1200 Deg.C.
		Supply: 230V Ac, 50 Hz, Single Phase.
THERMAL POWER	Vertical water tube	Study of Vertical water tube boiler

ENGINEERING LAB	boiler	
	Vertical fire tube boiler (Cochran)	Study of Vertical fire tube boiler (Cochran
	Horizontal fire tube boiler (Lancashire)	Study of Horizontal fire tube boiler (Lancashire)
	Flash and fire point of diesel and lubrication oil.	Cleveland Apparatus (Open system)
E. one	4-Stroke diesel engine	Determination of BP, IP and FP at different load
		Single cylinder, water cooled, developing 5 H.P at 1500 rpm
	4-Stroke petrol engine	Determination of BP, IP and FP at different load
		Displacement-197cc Engine Oil Capacity-0.7 Engine Type-Single Cylinder, 4-Strok Fuel-Petrol / Kerosene Max. Output-4.0 HP Fuel Tank Capacity (L)- 0.4 / 3.9.
	Bomb Calorimeter	Determination of calorific value of fuel
		Capacity of bomb calorimeter-650cc,working pressure-200atm.
	Bomb Calorimeter	Determination of calorific value of fuel
		Capacity of bomb calorimeter-650cc,working pressure-200atm.
	4-Stroke diesel engine with electrical load	Determination of BP, IP and FP at different load
	brake	Single cylinder, water cooled, developing 5 H.P at 1500 rpm,Loading Device –coupled with 3.0 KW DC single phase wire

			wound rheostat.
		4-Stroke diesel engine(Model)	Study of 4-Stroke diesel engine(Model)
		4-Stroke petrol engine(Model)	Study of 4-Stroke diesel engine(Model)
		2-Stroke petrol engine (Model)	Study of 2-Stroke petrol engine (Model)
ECE	Basic Electronics Engineering Laboratory	Each of the benches are fully equipped with: Signal sources Power supply Measuring instruments like digital multimeter, C.R.O etc.	Well designed laboratory manual / instruction sheets are provided to students at the beginning of the session for a particular laboratory is maintained and conducted by well trained technical supporting staff under the supervision of the faculty members. Most of the technical staffs have undergone first aid and fire fighting training.
	Digital Electronics Circuit Laboratory	C.R.O 25 MHZDual Trace Function Generator. 1 MHZ. Power Supply.(0 30V, +12 -012v. +5volt). Multimeter. (020M ohm, 0-1000 DC Volt, 0700A.C volt, 20micro 10 Amp.) IC Tester (Digital and Linear)	This lab is used for 2nd year of Electrical, EIE and IT Students in Odd semester and in Even Semester is used for 2nd year ECE students. Approximate area of this Lab is 2000 Sq.ft and its location at 2nd floor.room no-312 A.
	Analog Electronic Circuits Laboratory	Function generator(4MH z,30Vp-p) Power supply 2-	Analog Electronic Circuits laboratory is situated 2nd floor, room no. 312B.Geometric area of

	channel(0-30V), 3A with maximum current control facility,1 channel fixed 5V, 3A Cathode Ray oscillosco pe 2-Channel, 30MHz.	this lab is about 1250 square feet. According to present curriculum B-Tech (ECE) 4th Semester Students perform experiments on Analog Electronic Circuits Laboratory
	Measuring instruments l ike advanced digital multimeter, LCR meter e tc.	
	Facilities of soldering and disordering, and oth er testing equipments lik e DSO, Power meter etc are there which are mainly u sed for project and some inn ovative experiments.	
	Digital Storage Oscilloscope (100 MHz)	
Analog Communication	Signal Generator (Direct Digital Synthesis Signal Generator), 3MHz, 1 Channel, Output Voltage ± 20Vpp in 50Ω Load. 10MHz – Modulation Function-Pulse	Lab used in 5th semesters, Student of ECE departments are using this lab, Approximate area of the lab is 1250sq ft, Location of the lab is 2 nd Floor and Room No-310B, Average no of student per session 30 to 35, No of setup available is 8, No of students per setup is 4.
Laboratory	Generator, Output Voltage \pm 20Vpp in 50 Ω Load.	
	Oscilloscope (CRO), 100MHz, 2 Channels, 4 Trace	TE OF THE CHARLES

Cathode Ray Oscilloscope (CRO), 50MHz, 2 Channels, 4 Trace

Digital Storage Oscilloscope (DSO), 50MHz, 2 Channels, 4 Trace, 250MSa/s Real-Time and 25GSa/s Equivalent-Time Sampling

Digital Storage Oscilloscope (DSO), 100MHz, 2 Channels, 4 Trace, Real-Time Sample Rate 1.0SG/s

Spectrum Analyser Frequency Range: 150KHz to 1050MHz 41/2 Digit Display: Centre & Marker Frequency, 0.1MHz Resolution Amplitude Range: -100dBm to +13dBm Filters: 20KHz, 400KHz & Video Filter AM /FM Demodulator Included Full Range Built-in Tracking Generator: 0.15MHz to 1050MHz.

Multiple Power Supply, A: 0-30 V, 1 A continuously variable by means of coarse & fine controls, 5 V, 1 A Adjustable from 4 V - 6 $V, 0 - \pm 15 V, 1 A$ adjustable by means of coarse & fine

	interface With Microprocessor.	Setup is 8 nos.
	DC Motor Interface VMC 8501	
	StepperMotor Interface VMC 8501	
	Hex Keyboard Interface Normal	
	Switch LED Buzzer Interface.	
	C.R.O 25MHz, and 50MHz 4 trace, 2-ch oscilloscope	
	Function generator 1 MHz, mplitude with - 20db attenuation 100mv ~1v	
	Simulator using pc	
Digital Signal Processing Laboratory	Desktop PCs with LAN connection. DSP Starter Kit TMS320C5416 (Texus Instruments) DSP Starter Kit, TMS320C6713 (Texus Instruments) MATLAB 7.0.1 (Math works)	Digital Signal Processing laboratory is situated 2 nd floor, room no. 316B.Geometric area of this lab is about 900 square feet. According to present curriculum B-Tech (ECE) 6 th Semester Students perform experiments on Digital Signal Processing Laboratory.Digital Signal Processing (DSP) Laboratory can be described as the processing of signals using digital techniques or digital computers.
Digital Communication Laboratory	Digital Storage Oscilloscope (DSO), 50MHz, 2 Channels, 4	This Lab is used in 6th semesters, Student of ECE departments are using this lab, Approximate area of

		Trace, 250MSa/s Real-	the lab is 1250sq ft, Location of the
		Time and 25GSa/s Equivalent-Time	lab is 2 nd Floor and Room No-310B
		Sampling Storage	
		Digital Storage Oscilloscope (DSO),	
		100MHz, 2 Channels, 4	
		Trace, Real-Time	
		Sample Rate 1.0SG/s	
Plant Co.		Spectrum Analyser	
		Frequency Range:	
		150KHz to 1050MHz	
		4½ Digit Display:	
		Centre & Marker	
		Frequency, 0.1MHz	
		Resolution Amplitude	
		Range: -100dBm to	
		+13dBm Filters	
		: 20KHz, 400KHz &	
		Video Filter AM /FM	
		Demodulator Included Full Range Built-in	
		Full Range Built-in Tracking Generator:	
		0.15MHz to 1050MHz.	
		Microwave Horn	The laboratory located in the
		Antenna Test Bench, X	2nd floor of the main building and
		Band.	housed in the room No. 306. The
		Klystron based	size of the laboratory is
		Microwave Wave guide	approximately 25x35 sq ft
	Electromagnetic	test bench (Accessories:-	
	Theory and	Klystron Power supply,	
	Transmission Lines	Klystron Mount,	
	Laboratory	Klystron Tube,	
		Circulator, Frequency	
		Meter, Attenuator,	
		Slotted Section with	
		Probe, Detector mount,	
		VSWR meter and BNC	505
			The state of the s

to BNC cable). X Band.

Gunn Based Microwave Wave guide test bench

(Accessories:- Gunn Power supply, Gunn Oscillator, PIN modulator, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe. Detector mount, VSWR meter and BNC to BNC cable).X Band.

Klystron based Microwave Test Bench for Klystron Characteristic(Accessori es:- Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount, and VSWR meter BNC to BNC cable).X Band.

Microwave test Bench for Calibration of Attenuator(Accessories:-Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount, VSWR meter and BNC to BNC cable).X Band.

Microwave test Bench for Calibration of X-tal

Detector(Accessories:-Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount, VSWR meter and BNC to BNC cable).X Band.

Microwave test Bench for Measurement of Coupling Coefficient(Accessories:-Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount, Multi-hole Directional Coupler, VSWR meter and BNC to BNC cable).X Band.

Microwave test Bench for Measurement of Scattering Matrix(Accessories:-Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount MAZIX TEE, VSWR meter and BNC to BNC cable).X Band.

Microwave test Bench for Measurement of

Unknown Impedance(Accessories

- Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount, Attenuator, Movable short, VSWR meter and BNC to BNC cable).X Band. Microwave test Bench for Measurement of Phase Shift(Accessories:-Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount, Phase Shifter, Movable Short, VSWR meter and BNC to BNC cable).X Band. Spectrum Analyzer with Tracking Generator. 150Khz-1000Mhz Power Meter, X Band. Power Sensor, X Band. Machine Proto-UV Double sided UV exposure with suction motor Proto Dye-Developer Proto Drilling 3000 Proto-ETCH PCB etching Machine UTE OF Micro plate 1012 (4

variable rower supply.	brobleme It is also a nathway to	Project Lab	variety with different current rating. Make – Elnova, Scientech etc. Some of the power supply is in use designed and fabricated by students and technical staff of the department. Digital multimeters (Mastech-M3900) Oscilloscope Cathode Ray Oscilloscope. (25MHz,	enhance for employment and self- employment potential of graduates and enhance innovativeness.
knowledge to solve the real life	PCB Searing Machine RTM-10 Roller timing Machine Pro-Developer Stripper Function generator- (Scientech) The general objective of the project lab is to apply the theoretical	Project Lab	fixed and variable variety with different current rating. Make – Elnova, Scientech etc. Some of the power supply is in use designed and fabricated by students and	problems. It is also a pathway to enhance for employment and self- employment potential of graduates and

*KOL-109

		27 Acer Desktop G630 with 12.5" TFT Intel Pentium Dual Core G630, RAM - 2GB HDD 500 GB SATA 7200 rpm, stendark keyboard, Mouse out 12.5" TFT	
CA	316P	14 Processor - Intel Core2 duo e7500 @2.93 GHZ, 1066 MHZ, FSB, 3MBLL Cache Memory 1GB DDR2 800 MHZ, chipset Intel G41, 250GB sata HDD, 22 X DVD writer, HCL multimedia Keyboard, HCL Optical Scroll Mouse, 15.6" TFT monitor	
	316Q	1 Processor - Intel Core2 duo e7500 @2.93 GHZ, 1066 MHZ, FSB, 3MBLL Cache Memory 1GB DDR2 800 MHZ, chipset Intel G41, 250GB sata HDD, 22 X DVD writer, HCL multimedia	
		Keyboard, HCL Optical Scroll Mouse, 15.6" TFT monitor 24 INTEL Core 3rd Generation/ 4GB RAM / 500 GB HDD/ USB K/B/USB Mouse/18.5" DELL LED Wide Monitor; DELL TE OF OPTIPLEX 3020;	

Narula Institute of Technology



CE	Concrete Laboratory	Compression testing machine Concrete mixer machine Motor vibrator Smith Rebound Hammer.	The main focus of Concrete laboratory is centred upon different areas like developing fundamental knowledge on concrete making materials, its production, quality control and monitoring health of reinforced concrete structures.
200 m	Soil Mechanics Laboratory	Consolidation test Apparatus California Bearing ratio test apparatus Unconfined Compression Tester Compaction apparatus	The primary objective of soil mechanics laboratory is to excel the in depth knowledge on characteristics of soil towards design of foundation and for many civil engineering applications.
	Highway Engineering Laboratory	Los Angeles Abrasion testing machine Marshall stability test apparatus Benkelman beam apparatus Ring & Ball Apparatus Pen sky marten flash point apparatus	The laboratory offers the hand by handy solutions in testing road materials based on local needs by means of Los Angeles apparatus, Crushing strength apparatus, Bitumen testing apparatus. Mix design of bituminous concrete for specified requirements is also performed.
	Environmental Engineering Laboratory	BOD incubator Bacteriological Incubator COD apparatus Spectrophotometer UV tube visible Laminar Air Flow Machine Gutzeit generator	Lab facilities are specially designed for testing and analysing the municipal and hospital wastewater. Testing of drinking water parameters including Arsenic is available in the laboratory. Recently

			department has procured a number of modern and sophisticated computer operated instruments for analysing drinking and waste water parameters.
	Surveying Laboratory	Automatic level fitted with tripod stand o Electronic digital theodolite o Transit varnier theodolite o Electronic Total Station	Surveying instrument with necessary accessories are provided from conventional survey to modern survey by means of chain survey, transit vernier theodolite, automatic level, dumpy level, digital theodolite and electronic theodolite - total station.
	Geology Laboratory	Petrology microscope Ore microscope Geomorphology model	Geology laboratory puts emphasis on identification of crystals, rocks and minerals with the help of hand specimens, petrology microscope, ore microscope, geo-morphology model clinometers. Interpretation on Geological map India is also illustrated in detail.
	Language lab 1	CACM ISIL LAB 40 User Consoles +1 teacher Console PA system	Lab designed by IIT KGP in 2004 Upgraded various times
English	Language Lab 2	ODELL DIGITAL LANGUAGE LAB 40 User Consoles +1 teacher Console PA system	Designed by Orell



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.

NAME OF FIVE HOSTELS, DETAILS AND FEES STRUCTURE

Nilgunj Road, Kol109	85	SwapanMahato 8159817157	
		0137017137	
5no Railgate, Paschimpalli, Agarpara,Kol 109	26	RajbahadurChetri 9836983065	@RS 33000 PER SEMESTER
32 DP Nagar Sripally, Belgharia, Kol 56	13	RajuBaigari 9732450502	
32	DP Nagar Sripally,	DP Nagar Sripally, Belgharia, Kol 56	DP Nagar Sripally, Belgharia, Kol 56 RajuBaigari 9732450502

GIRL'SH OSTEL1 /CAMPU S	NIT,109, Nilgung Road	40	Putul Roy Singh 9330522930	
GIRL'SH OSTEL2/ NIT	27,BT Road, Prasadnagar, Kol58	28	Pranati Mishra 9330522930	
GIRL'SH OSTEL3 NIT/OIN DRILLA	15 Nilgunj Road, Agarbara Kol114	28	Pranati Mishra 9330522930	@RS 33000 PER SEMESTER
GIRL'SH OSTEL4/ JISU	ManasaAppts, Dp Nagar, Belgharia, Kol56	18	Pranati Mishra 9330522930	
GIRL'SH OSTEL5/ JISU	Tarapukur, Paschimpally, Agarpara ,Kol109	11	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.

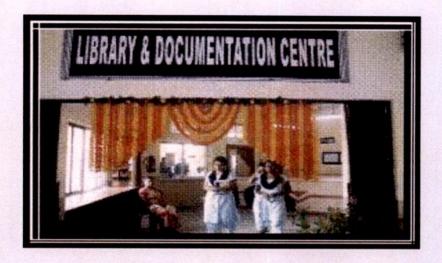
- All the hostel mess serves Vegetarian/Non-Vegetarian Food only and operates in self-service mode.
- The menu of the items is designed considering the requirements of the students and nutrition is added to make it healthy and complete.
- We offer morning tea with regular breakfast, lunch, evening snacks 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



Library & Documentation Centre



Mission, Vision & Policy

The mission, vision & policy are same as with the Institution's mission, vision & policy.

Goal

The goal of the Library & Documentation Centre of the Institute to create and sustain an information environment that supports the educational and research needs and enables learning and advancement of knowledge of the Institution community.

Administration

The library is managed by the leadership of the Librarian who is advised and supported by the Library Committee.

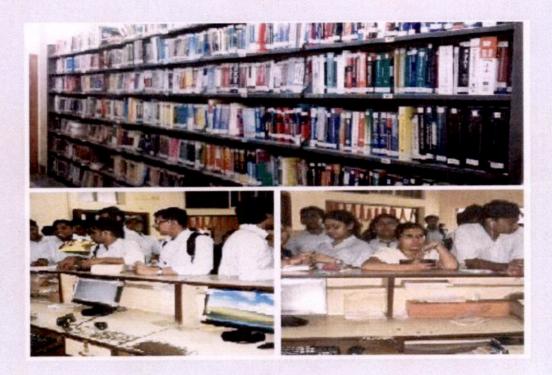
Library Hours

From 8 am to 8 pm on Monday to Friday & 9.30am to 1.30pm on Saturday.

The computing & e-mail facilities are available in the library reading room with 10 computers connected with OPAC.

Library Floor Area

The different sections of the library along with their floor areas are given as follows:



Library services beyond curriculaM

The library always encourage the reading beyond course curricula. Some examples of such initiatives are:

- It provides access to internet to develop self learning process of the student.
- > Through departmental libraries, it encourages the R & D initiatives of the student.
- ➤ The course materials of Infosys Campus Connect are readily available for the students in the departmental libraries.
- > Library has good resources on soft skill development and aptitude tests.



Library Computerization

The library operations are computerized with LibSys (Library management software) as well as software prepared by Hash Technology Pvt. Ltd. The library maintains a barcode based circulation system for catering quick service to the users. The departments are well connected with the OPAC facility.

Digital Library

E-Books from leading Publishers

- √ 784 e-Journals From IEEE ASPP & Science Direct
- 1,20,000 e-books, 7,000 e-journals, 5,000 e-movies, 4,000e-newspapers (Through **British Council)**
- ✓ Inter Library Loan from British Council Library
- ✓ VCDs, multimedia CDs, presentations.
- Training material (CD, Hard copy)
- ✓ E-learning repository of 1800 GB
- 4,09,594 videos of 12482 subjects
- NPTEL Videos & Lecture Notes
- ✓ Self-learning material (CD, Hard copy)



MEDICAL CENTRE

- The institute has an exclusive medical centre equipped with all facilities for providing first-aid
 and first hand medical treatment. The room has medical beds for emergency cases. A
 professional doctor is available during college hours for taking care of any emergency.
- Free medical check-up drives are arranged from time to time, which includes eye testing and a thorough check up of salient features like Blood pressure, ECG and diabetes.
- The centre plays a pivotal role in extending nursing facilities.





Chapter 5

ACADEMICS

Programmes offered

Mechanical Engineering (ME) - 60 Seats

Computer Science & Engineering (CSE) - 120 Seats (NBA Accredited)

Electronics & Communication Engineering (ECE) - 120 Seats (NBA

Accredited) Information Technology (IT) - 60 Seats (NBA Accredited)

Electrical Engineering (EE) - 120 Seats (NBA

Accredited) Civil Engineering (Civil) - 120 Seats

(NBA Accredited) Electronics & Instrumentation

Engineering (EIE) - 60 Seats

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

Computer Science & Engineering (CSE) - 18 Seats (NBA Accredited) Electronics & Communication Engineering - 18 Seats (NBA Accredited) Electrical Engineering -Power Systems - 18 Seats (NBA Accredited) Civil Engineering - Structural Engineering - 18 Seats
Master of Computer Application (MCA) -60 seats Master of Buisness Administration (MBA) - 60 seats

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

Electronics & Telecomminication Engineering (ETCE)
-60 seats Civil Engineering (CE) 60seats
Electrical Engineering (EE) 60 seats

Result Publication & Analysis

Evaluation and Assessment

Evaluation of Theory Papers (70 marks)

All appointment for examination of answer scripts were awarded to external faculty. After examination answer scripts were distributed for manual evaluation to external faculty only. Marks foils in triplicate for each subject was filled up by the external faculty after evaluation and signed. All logistic operation for distribution and collection of answer scripts were done by staff under department of COE.College vehicles were used for delivery and collection of answer scripts.

Scrutineers were appointed from internal faculty members to scrutinize all answer script packets. All scrutiny was carried out inside department of COE. Scrutiny report for each packet was signed by the respective faculty member.

For distribution to Head Examiners, 10% of the answer script packets were randomly selected and allotted for Head Examiners. For re-evaluation by Head Examiners, the tabulated sheets and scrutiny reports were provided to the Head Examiners. All such re-evaluation was carried out by the Head Examiners inside the department of COE.

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

Marks foils in triplicate for each subject was filled up and signed by the internal faculty for internal marks and submitted to the department of COE.

Evaluation of Practicals / Sessionals (100 marks)

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

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

The course teacher had awarded the marks for student performance in laboratory classes based on the Continuous Evaluation sheets for each student (40 Marks).

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

Marks foils in triplicate for each subject was filled up and signed by the internal faculty for the practical / sessional marks 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 2015-16					
Description	ODD Semester	EVEN Semester			
Number of Answer scripts	14723	14531			
Number of Evaluators (External)	60	59			
Number of Head Examiners (Internal)	30	30			

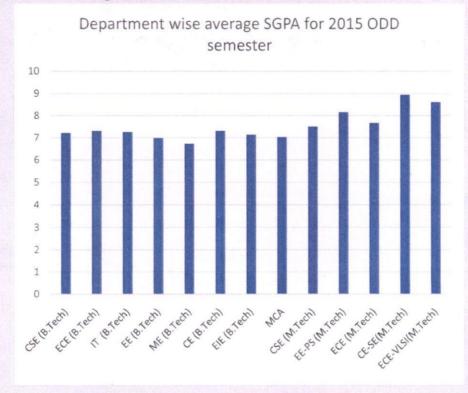
Result Publication

Two copies of marks foils were handed over to an external agency for data entry and result processing. After data entry, these marks foils are returned to department of COE. 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 by the external agency and the same were collected by staff from department of COE and brought to department of COE for distribution to the students.

Result Analysis

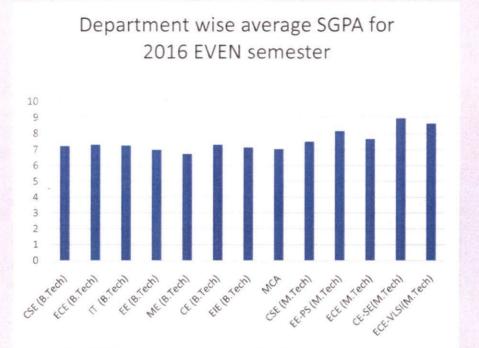
Department wise SGPA analysis of ODD and EVEN semester is presented here.

The average SGPA of the college for odd semester 2015 is 7.53.





The average SGPA of the college for even semester 2015 is 7.58.



Average Pass percentage of final year students:

Student Appeared	Student Passed	Pass Percentage
732	710	96.99%

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 a answer script. The details regarding students who submitted PPS applications in the academic year 2015-16 are given below.

Description of Parameter	ODD	EVEN
	Semester	Semester
Number of Answer Scripts involved in PPS Applications submitted by students	12	8
Number of Answer Scripts where awarded marks changed after scrutiny	nil	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 2015-16 are given below.

Description of Parameter	ODD Semester	EVEN Semester
Number of Answer Scripts involved in Review Applications submitted by students	5	3
Number of Answer Scripts where awarded marks changed after Re-evaluation	2	nil

Automation of Examination System

The following examination activities were fully automated.

- 1. Examination Form fill up by students using online portal
- 2. List of students appearing in examination is prepared automatically
- 3. Result Publication



Chapter 6

Faculty Development

Professional Development Program

In academic year 2015 - 2016, Narula Institute of Technology has organised multiple numbers of different types of programmes like Workshops, Faculty Development Programmes (FDP), Short Term Training Programme (STTP), Hands on Session and Industrial Visit. This year total 39 number of Workshops have been organised by Institute and collectively more than 1795 participants have taken active participation. 8 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,367 participants including many renowned delegates have made these FDPs successful. One STTP has also been arranged in the month of July with 41 numbers of participants. Narula Institute of Technology has also arranged Hands on session on Artificial Intelligence and its application with 32 participants and Industrial Visit at Bandel Thermal Power Station for students.

Type of program	Title	Organized by	Duration	No of participants
	One week Workshop "On Fundamentals of Electronics & Communication Systems, 2016 (WFECS, 2KH)"	Narula Intitute of Technology	20-06-2016 - 25- 06-2016	60
Workshop	Workshop on "Recent Trends in Wireless Technology"	Narula Intitute of Technology	01-06-2016 - 04- 06-2016	35
Work	Workshop on Social Entrepreneurship	Narula Intitute of Technology	13-05-2016 - 14- 05-2016	45
	Two Days workshop on Recent Trends On Renewable Energy And Power Electronics Using MATLAB	Narula Intitute of Technology	02-05-2016 - 03- 05-2016	42
	Workshop on "Safety Awareness in Industrial	Narula Intitute of Technology	26-04-2016 - 29- 04-2016	29

Narula Institute of Technology

Object Oriented Programming in JAVA specialization	Narula Intitute of Technology	06-04-2016 -07- 04-2016	37
Two days' workshop on "Nanomaterials to Opportunities Abroad"	Narula Intitute of Technology	05-04-2016 - 06- 04-2016	30
Workshop on Artificial Intelligence and its appliactions	Narula Intitute of Technology	27-04-2016 - 28- 02-2016	40
Workshop "Control system & Measurements."	Narula Intitute of Technology	01-04-2016 - 04- 04-2016	120
Two Days Workshop on "Fundamentals of Machines & Mechanisms"	Narula Intitute of Technology	21-03-2016 - 22- 03-2016	30
Workshop on Cryptography and its application	Narula Intitute of Technology	03-02-2016 - 04- 02-2016	36
Workshop on POWER SYSTEM ANALYSIS- USING ETAP	Narula Intitute of Technology	29-02-2016 - 02- 02-2016	41
Two Days Workshop on "Renewable Energy Resources"	Narula Intitute of Technology	22-02-2016 - 23- 02-2016	32
Two Days Workshop on "Career Opportunities of Mechanical Engineering"	Narula Intitute of Technology	20-01-2016 - 21- 01-2016	34
Two days workshop on "Rural Drinking Water Treatment and Water Quality Monitoring-II"	Narula Intitute of Technology	18-01-2016 - 19- 01-2016	30
Workshop on SQL	Narula Intitute of Technology	18-01-2016	30
3 DAYS WORKSHOP IIN APPLICATION OF MATLAB FOR PROCESS AUTOMATION",	Narula Intitute of Technology	04-01-2016 - 06- 01-2016	25
Workshop on Power System Protection Technology	Narula Intitute of Technology	16-12-2015 - 17- 12-2015	42

Hazardous Area"

Two days workshop on "Rural Drinking Water Treatment and Water Quality Monitoring-I"	Narula Intitute of Technology	07-12-2015 - 08- 12-2015	30
Workshop on Excel	Narula Intitute of Technology	21-12-2015	40
Workshop on Ethical Hacking and Cyber Security	Narula Intitute of Technology	10-11-2015 - 11- 11-2015	45
Workshop on Advanced Programming Language in Python	Narula Intitute of Technology	05-11-2015 - 06- 11-2015	37
Workshop on Environmental sustainability, water resource and management	Narula Intitute of Technology	03-11-2015 - 07- 11-2015	18
Workshop on "Fundamentals of Biomedical Instrumentation & Signal Processing using MATLAB"	Narula Intitute of Technology	03-11-2015 - 07- 11-2015	20
Two-Day workshop titled "CNC Machining"	Narula Intitute of Technology	20-10-2015 - 21- 10-2015	30
Two Days workshop titled "Advanced Welding Technique"	Narula Intitute of Technology	20-10-2015 - 21- 10-2015	38
Workshop on IT Security Awareness	Narula Intitute of Technology	26-09-2015 - 27- 09-2015	45
workshop on "Industrial Automation & Robotics	Narula Intitute of Technology	21-09-2015 - 26- 09-2015	20
WORKSHOP ON "POWER CONSERVATION FOR SMART GRIDS"	Narula Intitute of Technology	21-09-2015-25- 09-2015	24
Two days workshop on "Rural road construction materials including design"	Narula Intitute of Technology	17-09-2015 - 18- 09-2015	30
One day Workshop on "PHP with MySQL"	Narula Intitute of Technology	02-09-2015	31
Two days workshop on "Rural Pavements design"	Narula Intitute of Technology	24-08-2015 - 25- 08-2015	30

	The Workshop on Advancement in Biochemical and Biomedical Engineering	Narula Intitute of Technology	20-07-2015 - 25- 07-2015	50
	Two Week Workshop on Linux Overview and Linux System Administration (LOLSA)	Narula Intitute of Technology	01-07-2015 - 13- 07-2015	39
	Workshop on "Application of Biomedical instrumentation in health care"	Narula Intitute of Technology	08-07-2015-09- 07-2015	20
	One day seminar on Environmental Ethics and Value Crisis in Contemporary Society	Narula Intitute of Technology	16-05-2016	30
	"2nd Technical Paper, Poster & Model Design Contest"	Narula Intitute of Technology	10-10-2015	80
	Project Fair on Chemical Phenomena and Waste Recycling	Narula Intitute of Technology	25-05-2016	35
	Two Day Training program for Non teaching staff on "PCB Design and Fabrication"	Narula Intitute of Technology	01-02-2016 - 03- 02-2016	15
FDP	One week FDP on "On- Site Sanitation &Rural Sewage water treatment and solid management"	Narula Intitute of Technology	11-04-2016 - 15- 04-2016	44
	Faculty Development program on Cloud Computing & Big Data Analytics	Narula Intitute of Technology	18-01-2016 - 22- 01-2016	37
	One-week Faculty Development Programme titled "Innovation in Mechanical Engineering	Narula Intitute of Technology	16-11-2015 - 21- 11-2015	24
	One week Faculty Development Programme on "Micro Manufacturing Technology"	Narula Intitute of Technology	17-08-2015 - 22- 08-2015	29

TE OF ?

	FDP on Electric field optimization of high voltage electrode based on neural network	Narula Intitute of Technology	20-08-2015 - 22- 08-2015	33
	Advancement in Bio- chemical and Bio- medical Engineering	Narula Intitute of Technology	20-07-2015 - 25- 07-2015	32
	Faculty Development Program on Recent Trends of Soft Computing Techniques	Narula Intitute of Technology	15-07-2015 - 19- 07-2015	40
	FDP on recent trends on Solar Technology & E- CAD	Narula Intitute of Technology	03-11-2015 - 07- 11-2015	18
Indust rial Visit	Visit at Bandel Thermal Power Station (BTPS) by Faculty on	Narula Intitute of Technology	19-01-2016 - 20- 01-2016	20
STTP	STTP on Circuit simulation & PCB design	Narula Intitute of Technology	08-07-2015 - 09- 07-2015	41
Hands on Sessio n	Hands on Session on Artificial Intelligence and its Application	Narula Intitute of Technology	07-12-2015 - 08- 12-2015	32



Faculty Achievements

Awards received by faculty members in 2015 & 2016:

- Dr. Jayanta Kumar Saha, under the guidance of Dr. Tapan Kumar Mukherjee (BSHU, Physics), has been awarded the prestigious Sheldon Datz Prize 2015, a coveted international award of US \$1000. He has been conferred this award in ICPEAC Conference, Toledo, Spain.
- Dr. Saha, under the guidance of Dr. Tapan Kumar Mukherjee (BSHU, Physics) also achieved the highly recognized national award- "Best Thesis Award, 2015" across India conferred by ISAMP (Indian Association of Atomic and Molecular Physics).
- Dr. Sumit Nandi (BSHU, Chemistry) received the best paper award in the International Conference on Recent Innovations in Engineering and Technology (ICRIET-2015) at Mahabharati Engineering College, Chinnasalem, Tamilnadu in 2015.
- Dr. Rupa Bhattacharyya (BSHU, Chemistry) received the best paper award in the International Conference on Advances in Engineering and Technology (ICAET-2015) at Anjuman College of Engineering, Nagpur in 2015.
- Dibyendu Sur, received the Young Scientist award at the 2nd URSI-Regional Conference on Radio Science (URSI-RCRS-2015), organized by Indian Committee for International Radio Science Union (INC-URSI) under Indian National Science Academy in 2015.
- Dibyendu Sur, received the Second Prize in Electrical and Electronics Section in the 7th All India Inter College Academic meet 2016, organized by Forum of Scientists, Engineers & Technologists (FOSET) on 13 March, 2016.
- Narula Institute of Technology made a history in the JIS group Sports arena by lifting up the champions trophy for the consecutive three years. Mr. Kalyan Sinha Roy once again emerged as the matchless player of the tournament by winning the MOM trophy in the finals and was declared as the highest wicket taker, highest run scorer and eventually the Man of the tournament





Research & Development

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Title of paper		Name of journal ISSN number		Link to website of the Journal	Link to article/paper/abstract of the article	list/Scopus/Web of Science/other, mention
Simulin k Based Three- Phase Closed Loop Power Flow Control using TCSC	Arkendu Mitra	Internati onal Journal of Scientifi c Researc h and Manage ment (IJSRM)	ISSN - 2321- 3418	https:// www.ijs rm.in/i ndex.ph p/ijsrm	https://ijsrm.in/in dex.php/ijsrm/arti cle/view/735/653	UGC CARE
Applicati on of Solar Energy Conversi on in A Street Lighting System	Pratyusha Biswas Deb	Internati onal Journal of Scientifi c & Engineer ing Researc h,	ISSN 2229- 5518	http:// www.ijs er.org	https://www.ijser. org/researchpaper /Application-of- Solar-Energy- Conversion-in-A- Street-Lighting- System.pdf	UGC CARE
Applicati on of Solar Energy Conversi on in A Street Lighting System	Kamalika Banerjee	Internati onal Journal of Scientifi c & Engineer ing Researc h,	ISSN 2229- 5518	http:// www.ijs er.org	https://www.ijser. org/researchpaper /Application-of- Solar-Energy- Conversion-in-A- Street-Lighting- System.pdf	UGC CARE

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Applicati on of Solar Energy Conversi on in A Street Lighting System	Dipu Mistry	Internati onal Journal of Scientifi c & Engineer ing Researc h,	ISSN 2229- 5518	http:// www.ijs er.org	https://www.ijser. org/researchpaper /Application-of- Solar-Energy- Conversion-in-A- Street-Lighting- System.pdf	UGC CARE
Applicati on of Solar Energy Conversi on in A Street Lighting System	Priyanjali Mukherjee	Internati onal Journal of Scientifi c & Engineer ing Researc h,	ISSN 2229- 5518	http:// www.ijs er.org	https://www.ijser. org/researchpaper /Application-of- Solar-Energy- Conversion-in-A- Street-Lighting- System.pdf	UGC CARE
Applicati on of Solar Energy Conversi on in A Street Lighting System	Sudhangsh u Sarkar	Internati onal Journal of Scientifi c & Engineer ing Researc h,	ISSN 2229- 5518	http:// www.ijs er.org	https://www.ijser. org/researchpaper /Application-of- Solar-Energy- Conversion-in-A- Street-Lighting- System.pdf	UGC CARE
Precise estimati on of slowly moving hydroge n-like ions in quantu m plasmas	Dr. Tapan Kumar Mukherjee	Physics of Plasmas	ISSN- 2319- 7064	https:// www.ijs r.net	https://aip.scitatio n.org/doi/10.1063 /1.4921739	UGC CARE
Evolutio nary techniqu e based	Debjani Chakraborti	Opsearc h	ISSN 0030 -3887 DOI	https:// www.sp ringer.c om/jour	https://ideas.repec .org/a/spr/opsear /v53y2016i2d10.1 007_s12597-015-	SPRINGER

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Role of neutral wind in the performa nce of artificial-neural network-based TEC models at diverse longitud es in the low latitudes	Dibyendu Sur	Journal of Geophys ical Researc h. Space Physics	Online SSN 2169- 9402	https:// link.spri nger.co m/articl e/10.10 07/s40 031- 016- 0217-9	https://agupubs.o nlinelibrary.wiley.c om/doi/full/10.10 02/2014JA020594	SPRINGER
Effect of audio cue on electrooc ulogram -based eye moveme nt analysis of visual memory recall	Dr.Anilesh Dey	Lecture Notes in Electrical Engineer ing (2015) 335 197- 215	DOI: 10. 1007/9 78-81- 322- 2274- 3_50	https:// link.spri nger.co m	https://link.spring er.com/chapter/10 .1007/978-81-322- 2274-3_52	SPRINGER

An Improve d Energy Detector for Spectru m Sensing in Cognitiv e Radio System with Adaptive Noise Cancella tion and Adaptive Threshol d	Dr.Sandhya Pattanayak	Book chapter of Springer book: Comput ational Advance ment in Commu nication Circuits and Systems in Lect. Notes Electrica 1 Eng., Vol. 335. Scopus indexed	ONLINE ISSN97 8-81- 322- 2273-6	https:// www.sp ringerpr ofession al.de/e n/	https://www.sprin gerprofessional.de/ en/an-improved- energy-detector- for-spectrum- sensing-in- cognitive- ra/4658104	Springer
Impleme ntation of High performa nce Vedic Multiplie r and design of DSP operatio ns using Vedic Sutra	Dr.Saradind u Panda	Lecture Notes in Electrica 1 Engineer ing ,Vol. 335,pag e no: 443- 449,	ISSN: 1876- 1100, ISSN: 11876- 1119(ele ctronic), ISBN: 978-81- 322- 2273-6, ISBN: 978-81- 322- 2274-3 (eBook)	https:// www.re searchg ate.net/ publicat ion/286 813227 _Imple mentati on_of_o ptimize d_high_ perform ance_44 _multipl ier_usin g_ancie nt_Vedi c_sutra _in_45_ nm_tec hnology	https://www.resea rchgate.net/public ation/297010323_I mplementation_of_ High_Performance_ Vedic_Multiplier_a nd_Design_of_DSP_ Operations_Using_ Vedic_Sutra	SPRINGER

Analysis of Ambipol ar Intrinsic Resistan ce of PIN Diode for different semicon ductors suitable for Power Devices	Dr.Saradind u Panda	Lecture Notes in Electrica 1 Engineer ing ,Vol. 335,pag e no: 357- 365,ISS N: 1876- 1100,	ISSN: 11876- 1119(ele ctronic), ISBN: 978-81- 322- 2273-6, ISBN: 978-81- 322- 2274-3 (eBook)	https:// link.spri nger.co m/chap ter/10. 1007/9 78-81- 322- 2274- 3_49	https://www.resea rchgate.net/public ation/279206628_ Analysis_of_Ambip olar_Intrinsic_Resis tance_of_PIN_Diode _for_Different_Semi conductors_Suitabl e_for_Power_Device s	SPRINGER
Electrica 1 Characte ristics Of Mesfet Using Gaas,Inp And Gan As Substrat es	Mr.Puspak Pain	Comput ational Advance ment in Commu nication Circuits and Systems Springer , New Delhi	ONLINE ISSN 978-81- 322- 2274-3	https:// www.sp ringer.c om	https://www.sprin gerprofessional.de/ en/electrical- characteristics-of- mesfet-using-gaas- inp-and-gan-as- s/4658310	Springer
Discrete Design Approac h along with Performa nce Analysis by Controll ability Observa bility Testing for a Standar d Prostheti	Mrs Swati Barui	Lecture Notes in Electrical Engineerin g,Springer	ONLINE ISSN 978-81- 322- 2274-3	https://link.springer.com/chapter	https://publons.com/publon/21490765/	SPRINGER

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Discrete Design Approac h along with Performa nce Analysis by Controll ability Observa bility Testing for a Standar d Prostheti c Arm Model	Moupali Roy	Lecture Notes in Electrical Engineerin g,Springer	ONLINE ISSN 978-81- 322- 2274-3	https:// link.spri nger.co m/chap ter	https://publons.com/publon/21490765/	SPRINGER
Frequen cy Respons e of Si/SiGe Heteroju nction Bipolar Transist or	Mrs. Arnima Das	Lecture Notes in Electrica 1 Engineer ing	ONLINE ISSN 978-81- 322- 2274-3	https:// link.spri nger.co m/chap ter	https://www.sprin gerprofessional.de/ en/frequency- response-of-si-sige- heterojunction- bipolar- transistor/465825	SPRINGER
Frequen cy Respons e of Si/SiGe Heteroju nction Bipolar Transist or	Dr. M .R. Kanjilal	Lecture Notes in Electrica 1 Engineer ing	ONLINE ISSN 978-81- 322- 2274-3	https:// link.spri nger.co m/chap ter	https://www.sprin gerprofessional.de/ en/frequency- response-of-si-sige- heterojunction- bipolar- transistor/465825	SPRINGER

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Overview on Various Bandwid th Enhance ment Tech- niques for Ultra- wide Band Antenna s	Mrs.Arpita Barman Santra	Computati onal Advancem ent in Communic ation Circuits and Systems	ONLINE ISSN 978-81- 322- 2274-3	https:// www.sp ringer.c om/gp/ book/9 789811 386862	https://www.resea rchgate.net/public ation/282207821_ Overview_of_Variou s_Bandwidth_Enha ncement_Techniqu es_for_Ultra- Wide_Band_Antenn as	Springer
A novel design approac h of subband coder and decoder of speech signal using log normal probabili ty distribut ion	Mrs.Sangita Roy	Lecture Notes in Electrica 1 Engineer ing book series (LNEE, volume 335)	ONLINE ISSN97 8-81- 322- 2273-6	https:// link.spri nger.co m/chap ter	https://www.resea rchgate.net/public ation/283031990_ A_Novel_Design_Ap proach_of_Subban d_Coder_and_Deco der_of_Speech_Sig nal_Using_Log_Nor mal_Probability_Di stribution	SPRINGER
Benchm ark function	Mrs.Sangita Roy	Advance s in Intellige	ONLINE ISSN97 8-81-	https:// www.sp ringer.c	https://link.spring er.com/chapter/10 .1007/978-81-322-	SPRINGER

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Haar Wavelet Transfor m Image Compres sion Using Various Run Length Encodin g Schemes	Mrs.Sangita Roy	Advance s in Intellige nt Systems and Computi ng book series (AISC, volume 327), Proceedi ngs of the 3rd Internati onal Conferen ce on Frontier s of	ONLINE ISSN97 8-3- 319- 11933-5	https:// www.sp ringer.c om/gp/ book/9 783319 119328	https://www.resea rchgate.net/public ation/278669829_ Haar_Wavelet_Tran sform_Image_Comp ression_Using_Vari ous_Run_Length_E ncoding_Schemes	SPRINGER
Benchm ark function analysis of cuckoo search algorith m	Jayaita Basak	Advance s in Intellige nt Systems and Computi ng book series (AISC, volume 339)	ONLINE ISSN97 8-81- 322- 2249-1	https:// www.sp ringer.c om/seri es/111 56	https://link.spring er.com/chapter/10 .1007/978-81-322- 2250-7_72	SPRINGER
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Real- Time Damage Detectio n in Laminat ed Composi te Beams Using Dynamic Strain Respons e and Modular Neural Arrays for Aerospa ce Applicati	Sanjay Goswami	Internati onal Researc h Journal of Engineer ing and Technolo gy (IRJET	e-ISSN: 2395- 0056, p- ISSN: 2395- 0072,	https:// www.irj et.net/	https://www.irjet. net/archives/V2/i 3/Irjet-v2i3333.pdf	springer

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Process optimiza tion of lipase catalyze d synthesi s of diesters in a packed bed reactor	Dr. Sumit Nandi	Biochem ical Engineer ing Journal (Elsevier)	ISSN: 1369- 703X	https:// www.jo urnals.e lsevier.c om/bioc hemical - enginee ring- journal	https://www.scien cedirect.com/scien ce/article/abs/pii/ S1369703X150012 05	Elsevier
Process optimiza tion of lipase catalyze d synthesi s of diesters in a packed bed reactor	Dr. Sarbani Ganguly	Biochem ical Engineer ing Journal (Elsevier	ISSN: 1369- 703X	https:// www.jo urnals.e lsevier.c om/bioc hemical - enginee ring- journal	https://www.scien cedirect.com/scien ce/article/abs/pii/ S1369703X150012 05	Elsevier
Nonrelat ivistic structur e calculati ons of two- electron ions in a strongly coupled plasma environ ment	Dr. Tapan Kumar Mukherjee	Phys. Rev. A	DOI:htt ps://doi .org/10. 1103/P hysRevA .91.042 515	https:// journals .aps.org /pra/	https://journals.a ps.org/pra/abstrac t/10.1103/PhysRe vA.91.042515	UGC recognized
Enzymat ic synthesi s of micronu	Dr. Sumit Nandi	Internati onal Journal of Science	ISSN 2319- 7064	https:// www.ijs r.net/	https://www.ijsr.n et/get_abstract.ph p?paper_id=SUB15 7513	UGC recognized



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Enzymat ic extractio n of rice bran oil from microwa ve stabilize d and sieved bran	Dr. Sumit Nandi	Indian Journal of Science	E-ISSN 2319- 7749	http:// www.dis coveryjo urnals.o rg/scien ce/inde x.htm	http://www.discov eryjournals.org/sci ence/current_issue /2015/A65.pdf	ESCI - Thomson Reuters, scopus
Enzymat ic synthesi s of micronu trients rich diacylgly cerol from rice bran oil fatty acid distillate	Dr. Rupa Bhattachary ya	Internati onal Journal of Science and Researc h	ISSN 2319- 7064	https:// www.ijs r.net/	https://www.ijsr.n et/get_abstract.ph p?paper_id=SUB15 7513	UGC recognized
Search of appropri ate semicon ductor for PIN Diode fabricati on in	Dr.Saradind u Panda	IEEE Explore,	DOI:htt ps://doi .org/10. 1103/P hysRevA .91.042 515	https://ieeexplore.ieee.org/document/7281370	https://ieeexplore.i eee.org/document/ 7281370	SCOPUS



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Develop ment of Automat ed Agricult ural Process Monitori ng and Control Technolo gy in an Enclosed System	Susmita Das	IOSR Journal of Agricult ure and Veterina ry Science (IOSR- JAVS)	e-ISSN: 2319- 2380, p- ISSN: 2319- 2372	https:// www.ios rjournal s.org/io sr- jeee.ht ml	https://www.resea rchgate.net/public ation/336848252_ Development_of_Au tomated_Agricultur al_Process_Monitor ing_and_Control_T echnology_in_an_E nclosed_System	UGC recognized
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Threshol d voltage roll-off for triple gate FinFET analysis based on several semicon ductors used as substrat e	Dr.Saradind u Panda	IEEE Explore,	DOI:10. 1109/IC HPCA.2 014.704 5355	https:// ieeexplo re.ieee.o rg/abst ract/do cument /70453 55	https://ieeexplore.i eee.org/document/ 7045355?reload=tr ue&tp=&arnumber =7045355&opened Refinements%3D* %26filter%3DAND(NOT(4283010803)) %26pageNumber% 3D6%26rowsPerPa ge%3D50%26query Text%3DFinFET=	SCOPUS
Does music affect HRV impulse? A time domain study	Dr.Anilesh Dey	Lecture Notes in Electrica 1 Engineer ing (2015) 335 197-215	DOI: 10. 1007/9 78-81- 322- 2274- 3_50	https://ieeexplo re.ieee.o rg/docu ment/7 045355	https://www.sema nticscholar.org/pa per/Does-Music- Affect-HRV- Impulse-A-Time- Domain-Study- Dey- Banerjee/c984e61a 7b6a6efc6df094d0 6aff88e85201bdb3	SCI
Design and simulati on of two- stage low- power CMOS Op-amp in nanomet re range	Mr.Soumen Pal	Part of the Lect ure Notes in Electrica 1 Engineer ing book series (LNEE, volume 335),Spr inger	ONLINE ISSN 978-81- 322- 2274-3	https:// link.spri nger.co m/book series/7 818	https://link.spring er.com/chapter/10 .1007/978-81-322- 2274-3_47	SCOPUS
Compar ative study of IV- Characte ristics of pin diode at	Saradindu Panda	Internati onal Journal of Electroni cs and Commu nication	2278- 9901 (P) 2278- 991X (E)	https:// www.jo urnals.e lsevier.c om/aeu internat ional-	https://papers.ssr n.com/sol3/papers .cfm?abstract_id=2 666925	ELSEVIER

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Comparison of Noise, Power and Delay of Different Multiplier's using Variable Threshold MOSFET in 45nm Technology	Saradindu Panda	Internati onal Journal of Applicati on or Innovati on in Engineer ing & Manage ment	2319 – 4847	https:// www.ija iem.org /	https://www.ijaie m.org/Volume4Iss ue9/IJAIEM-2015- 09-02-1.pdf	Thomson Reuters Researchid
Controll er Design and Optimize d System Analysis for Standar d Dextero us Arm Model	Swati Barui	Internati onal Journal of Electroni cs and Commu nication Engineer ing and Technolo gy	0976 - 6464 (P) 0976 - 6472 (E)	https:// iaeme.c om/IJE CET/in dex.asp	https://silo.tips/d ownload/controller -design-and- optimized-system- analysis-for- standard- dexterous-arm- model	Thomson Reuters Researchid

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Overview on Literatur e Survey towards EMG Interpret ations Techniq ue in Addition to Several Interdisc iplinary Work Related to EMG Interpret ations	Swati Barui	Internati onal Journal of Scientifi c & Engineer ing Researc h	2229- 5518	https:// www.ijs er.org/	https://www.citefa ctor.org/journal/p df/Overview-on- Literature-Survey- towards-EMG- Interpretations- Technique-in- Addition.pdf	UGC recognized
Current Signal Output Electroni cally Variable Quadrat ure Sinusoid Oscillato r with	Sandhya Pattanayak	Internati onal Journal of Active and Passive Electroni c Devices	1555- 0281	http:// www.ol dcitypu blishing .com/jo urnals/j aped- home/	https://web.a.ebsc ohost.com/abstrac t?direct=true&profi le=ehost&scope=sit e&authtype=crawle r&jrnl=15550281& AN=108974203&h =0GBh%2fKaqdW3 Q2Wvp2QN4IPjJKp jQPKlhe%2fzZjFniZ uJzXbde6jFPbalEP	UGC recognized

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A Compar ative Survey On Papr Reductio n Techniq ues For Ofdm Performa nce Improve ment	Sohan Ghorai	Internati onal Journal of Electroni cs and Commu nication Engineer ing & Technolo gy	0976- 6464 (P) 0976- 6472 (E)	http://i aeme.co m/IJEC ET/inde x.asp	https://iaeme.com /MasterAdmin/Jou rnal_uploads/IJEC ET/VOLUME_6_IS SUE_10/IJECET_0 6_10_006.pdf	SCOPUS
An Analytic al Study Of The Influenc e On Domesti c Consum ers In Karnata ka By Time-Of- Day Tariff	Rimpi Datta,	Internati onal Journal of Science	2277- 663X (P) 2278- 3687 (E)	https:// www.ijs et.net/	https://www.ijset. net/journal/812.p df	ICI
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Analysis of Single Phase PWM Rectifier for Different Applicati ons	Arkendu Mitra	The Instituti on of Engineer s (India): Series B	2250- 2106 DOI: 10.1007 /s40031 -016- 0217-9	https:// www.sp ringer.c om/jour nal/400 31	https://www.resea rchgate.net/public ation/304619915_ Analysis_of_Single_ Phase_PWM_Rectifi er_for_Different_Ap plications	SCOPUS
Develop ment of an Automat ic Switch- off Househo ld Loads by Visitor Counter	Dibyendu Sur	International Journal of Innovative Researchin Science, Engineering and Technology (IJIRSET)	ISSN (Online) : 2319 - 8753, ISSN (Print) : 2347 - 6710	http:// www.ijir set.com /	http://www.ijirset. com/upload/2015 /ncetas15/15_P_I D_20.pdf	ICI
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Moderat e Density Salt & Pepper Noise Removal	Shubhendu Banerjee	Internati onal Journal of Electroni cs & Commu nication Technolo	2230- 7109 (Online) ISSN: 2230- 9543 (Print)	http:// www.ije ct.org/	https://www.resea rchgate.net/public ation/270903837_ Moderate_Density_ Salt_Pepper_Noise_ Removal	ICI
High Payload Waterma rking using Residue Number System	Shubhendu Banerjee	Internati onal Journal of Image, Graphic s and Signal Processi ng (IJIGSP)	2074- 9074 (Print), 2074- 9082 (Online)	http:// www.m ecs- press.or g/ijigsp /	https://www.sema nticscholar.org/pa per/High-Payload- Watermarking- using-Residue- Number-Banerjee- Chakraborty/a7ed ea1aaa1628f1de1d 8c3e7fb5b2ee1cb9 6876	UGC recognized
A Relook and Renovati on over State-of- Art Salt and Pepper Noise Removal Techniq ues	Shubhendu Banerjee	Internati onal Journal of Image, Graphic s and Signal Processi ng (IJIGSP)	2074- 9074 (Print), 2074- 9082 (Online)	http:// www.m ecs- press.or g/ijigsp /	https://www.resea rchgate.net/public ation/280628480_ A_Relook_and_Ren ovation_over_State- of- Art_Salt_and_Pepp er_Noise_Removal_ Techniques	ISI
Risk Analysis in Banking Industry	Koushik Karmakar	Internati onal Journal of Innovati on in Engineer	2319- 1058	https:// ijiet.co m/	https://doczz.net/ doc/6777112/risk- analysis-in- banking-industry	ISI, Google Scholar, IndexCoperni cus , DOAJ, INSPEC, EBSCO, WordCat,

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Tribologi cal Behavio ur of Electrole ss Ni-P Coatings in Brine Solution and Optimiza tion of Coating Paramet ers Using Taguchi Based Grey Relation Analysis	B. Panja	Journal of The Instituti on of Engineer s (India): Series C	2250- 0545	https:// link.spri nger.co m/articl e/10.10 07/s40 032- 015- 0174-0	DOI:10.1007/s400 32-015-0174-0	Scopus
Study of Friction Performa nce of Electrole ss Ni-P Coatings in Brine Solution and	B. Panja	Internati onal Journal of Applied Engineer ing Researc h	0973- 4562	https:// www.rip ublicati on.com /ijaer.ht m	https://www.ripub lication.com/Volu me/ijaerv10n8spl. htm	UGC recognized



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Biodiesel from Jatropha Curcas Oil: A compara tive study between chemical and biocataly tic transest erificatio n	Dr. Rupa Bhattachary ya	Researc h Journal of Recent Sciences	2277 -2502	http:// www.isc a.in/rjr s/Intro duction. php	http://www.isca.in /rjrs/archive/v4/iI SC-2014/8.ISCA- ISC-2014-Oral- 4CS-06.php	Indexed in Google Scholar
A compara tive evolutio nary analysis and predictio n of carbon dioxide emission in different countrie s	Dr. Sumit Nandi	Researc h Journal of Recent Sciences	2277 -2502	http:// www.isc a.in/rjr s/Intro duction. php	http://www.isca.in /rjrs/archive/v4/iI SC-2014/16.ISCA- ISC-2014-Oral- 8EVS-08.php	Indexed in Google Scholar, Chemical Abstracts Service,

A compara tive evolutio nary analysis and predictio n of carbon dioxide emission in different countrie s	Dr. Pijush Basak	Researc h Journal of Recent Sciences	2277 -2502	http:// www.isc a.in/rjr s/Intro duction. php	http://www.isca.in /rjrs/archive/v4/iI SC-2014/16.ISCA- ISC-2014-Oral- 8EVS-08.php	Indexed in Google Scholar, Chemical Abstracts Service,
A paramet ric study for the enzymati c extractio n of rice bran oil and its optimiza tion.	Dr. Sumit Nandi	International Journal on Recent and Innovation Trends in Computi ng and Commu nication	2321 -8169	https:// ijritcc.or g/index .php/ijr itcc	https://www.sema nticscholar.org/pa per/A-parametric- study-for-the- enzymatic- extraction-of- Nandi- Bhattacharyya/bbc bb28dd0a6202719 8f3ef893e9317be2 2b16a5	Indexed in Google Scholar, Chemical Abstracts Service,
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Influenc e of cross linked PMMA on cross linked PVC for modifica tion of its propertie s	Dr. Sumit Nandi	Internati onal Journal on Recent and Innovati on Trends in Computi ng and Commu nication	2321 -8169	https:// ijritcc.or g/index .php/ijr itcc	http://www.ijarset. com/upload/2015 /january/10_IJAR SET_sumitnandi.p df	Google Scholar, Index Copernicus International
A Statistic al Analysis of Carbon Dioxide Emissio n From Different Attribute s in West Bengal, India	Dr. Pijush Basak	Internati onal Journal on Recent and Innovati on Trends in Computi ng and Commu nication	2321 -8169	https:// www.ije rt.org/a - statistic al- analysis -of- carbon- dioxide- emissio n-from- different - attribut es-in- west- bengal-	https://ijritcc.org/index.php/ijritcc/Special_Issue/ICAET_2015_Track_6	Google Scholar, Index Copernicus International

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A Statistic al Analysis of Carbon Dioxide Emissio n From Different Attribute s in West Bengal, India	Dr. Sumit Nandi	Internati onal Journal on Recent and Innovati on Trends in Computi ng and Commu nication	2321 -8169	https:// www.ije rt.org/a - statistic al- analysis -of- carbon- dioxide- emissio n-from- different - attribut es-in- west- bengal- india	https://ijritcc.org/i ndex.php/ijritcc/S pecial_Issue/ICAE T_2015_Track_6	Google Scholar, Index Copernicus International
Producti on of biodiesel from Jatropha Curcas oil with recycling of enzyme	Dr. Sumit Nandi	Internati onal Journal on Applicati ons in Civil and Enviorn mental Engineer ing	2394- 6237	http://aetsjour nal.com /ijacee/ paper_li st.php?r and=1& view=20 180818 030859 &name= Volume %201% 20Issue %201	http://www.aetsjo urnal.com/ijacee_i ssues/Production- Of-Biodiesel-From- Jatropha-Curcas- Oil-With-Recycling- Of-Enzyme.pdf	Google Scholar, Index Copernicus International
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Delay induced oscillatio n in a biochemi cal model and its control	Rupa Bhattachary ya	Nonlinea r Studies	1359- 8678	http:// www.no nlinears tudies.c om/ind ex.php/ nonline ar	https://www.resea rchgate.net/public ation/281549913_ Delay_induced_osci llation_in_a_bioche mical_model_and_i ts_control	SCOPUS
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The Unspoke n Of: In Dattani's Do The Needful and Seven Steps Round The Fire	Rajasi Ray	JOURNA L OF HIGHER EDUCAT ION AND RESERC H SOCIET Y	ISSN: 2349- 0209	https:// herso.or g/vol-3- issue-2- oct- 2015- index- 1/	https://herso.org/ vol-3-issue-2-oct- 2015-index-1/	EBSCO Information Services
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Reading of		Journal (GEORJ)		428		
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The Lost Dream	Sharmistha Basu	INTERN ATIONA L JOURNA L OF ENGLIS H: LITERAT URE, LANGUA GE & SKILLS (IJELLS)	ISSN:22 78 0742	https:// www.ijel ls.com/ welcom e/	https://www.acade mia.edu/13205529 /Language_and_Lit erature_Developme nt	UGC recognized
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Block based Data Encrypti on and Decrypti on using Algorith mic Operatio	Dr Pranam Paul	CiiT Internati onal Journal of Networki ng and Commu nication Engineer	ISSN (Print): 0974 – 9713 & ISSN (Online): 0974 – 9616	http:// www.cii tresearc h.org/n ce.html	http://www.ciitres earch.org/dl/index .php/nce/article/vi ew/NCE02201500 4.	UGC recognized

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Block based Cryptogr aphic Protocol using Sequenc e of Rearran gement of Points	Rajat Das	CiiT Internati onal Journal of Networki ng and Commu nication Engineer ing	ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 - 9616	http:// www.cii tresearc h.org/n ce.html	http://ischolar.info /index.php/CiiTNC E/article/view/103 384/0	UGC recognized		
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Cryptogr aphic Algorith m Based on Triangul ar Form	Subhankar Ghosh	CiiT Internati onal Journal of Networki ng and Commu nication	ISSN (Print): 0974 – 9713 & ISSN (Online): 0974 – 9616	http:// www.cii tresearc h.org/n ce.html	http://ciitresearch. org/dl/index.php/ nce/article/view/N CE052015003.	UGC recognized		

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An Approac h to Block Cipherin g Using Root of Perfect Square Number	Dr Pranam Paul;	CiiT Internati onal Journal of Networki ng and Commu nication Engineer ing	; ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 - 9616	http:// www.cii tresearc h.org/n ce.html	http://ischolar.info /index.php/CiiTNC E/article/view/103 383	UGC recognized
An Approac h to Block Cipherin g Using Root of Perfect Square Number	Shibaranjan Bhattachary ya,	CiiT Internati onal Journal of Networki ng and Commu nication Engineer ing	; ISSN (Print): 0974 – 9713 & ISSN (Online): 0974 – 9616	http:// www.cii tresearc h.org/n ce.html	http://ischolar.info /index.php/CiiTNC E/article/view/103 383	UGC recognized
Block based Data Encrypti on and Decrypti on using Algorith mic	Dr Pranam Paul	CiiT Internati onal Journal of Networki ng and Commu nication	ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 - 9616	http:// www.cii tresearc h.org/n ce.html	http://www.ciitres earch.org/dl/index .php/nce/article/vi ew/NCE02201500 4.	UGC recognized

Operatio ns		Engineer ing				
Kruskal' s Maximal Spannin g Tree Algorith m for Optimizi ng Distribut ion Network Topology to Improve Voltage Stability	Dipu Sarkar	Electric Power Compon ents and Systems	ISSN: 1532- 5016 (Online)	https:// www.ta ndfonlin e.com/t oc/uem p20/cur rent	https://www.tandf online.com/doi/ab s/10.1080/153250 08.2015.1062818	TAYLOR & FRANCIS
Kruskal' s Maximal Spannin g Tree Algorith m for Optimizi ng Distribut ion Network Topology to Improve Voltage Stability	Sanjay Goswami	Electric Power Compon ents and Systems	ISSN: 1532- 5016 (Online)	https:// www.ta ndfonlin e.com/t oc/uem p20/cur rent	https://www.tandf online.com/doi/ab s/10.1080/153250 08.2015.1062818	TAYLOR & FRANCIS
Analysis of Spectru m Sharing in Cognitiv e Radio	Subhasree Bhattacharj ee	CiiT Internati onal Journal	ISSN (Print): 0974 – 9713 & ISSN (Online): 0974 – 9616	http:// www.cii tresearc h.org/	http://ischolar.info /index.php/CiiTW C/article/view/101 280	UGC recognized



Network						
Similarit y and dissimila rity of whole genomes using intuition istic fuzzy logic	Subhram Das	Notes on Intuition istic Fuzzy Sets	ISSN: 1 310- 4926, 2367- 8283	http://i figenia.o rg/wiki /Notes_ on_Intui tionistic _Fuzzy_ Sets	https://www.resea rchgate.net/public ation/321837235_ Similarity_and_diss imilarity_of_whole_ genomes_using_int uitionistic_fuzzy_lo gic	ICI
A Compar ative Study To Maximiz e MRR in Electro discharg e Machini ng Process by Variatio n of Control Paramet ers using Taguchi Analysis	Akhtarujja man Sarkar	Internati onal Journal of Engineer ing Researc h and Applicati ons	2248- 9622	http:// www.ije ra.com/	https://www.ingen taconnect.com/con tent/doaj/2248962 2/2015/00000005 /00000003/art000 55	UGC recognized
Influenc e Of Control Paramet ers On MRR In Electrica 1 Discharg	Akhtarujja man Sarkar	Internati onal Journal of Technica l Researc h and Applicati	2320- 8163	https://www.ijtra.com/	https://www.slides hare.net/ijtra/influ ence-of-control- parameters-on- mrr-in-electrical- discharge- machining-edm- using-sn-ratio-and- anova-analysis	Google Scholar, DOAJ, Computer Science Directory, Q.Sensei

Prince						
e Machini ng (EDM) Using S N Ratio And ANOVA Analysis		ons	•			
Thermal Modeling of III-V WBG- Based p- i-n Switch	Dr. M .R. Kanjilal	Springer	DOI: 10.1007/ 978-81- 322- 2274- 3_45	https://li nk.spring er.com	https://link.spring er.com/chapter/10 .1007/978-81-322- 2274-3_45	Scopus
Thermal Modeling of III-V WBG- Based p- i-n Switch	Payel Biswas	Springer	DOI: 10.1007/ 978-81- 322- 2274- 3_45	https://li nk.spring er.com	https://link.spring er.com/chapter/10 .1007/978-81-322- 2274-3_45	Scopus
An intellige nt energy manage ment system to optimise demand response in Smart Micro Grids	Dr. Sandip Chanda	IEEE	DOI: 10.1 109/CIEC. 2016.751 3745	https://ie eexplore.i eee.org/	https://ieeexplore.i eee.org/abstract/d ocument/7513745 /metrics#metrics	SCI
Study the effect of music on HRV signal using 3D	Dr. Anilesh Dey	IEEE	DOI: 10.1 109/ICCSP .2015.732 2652	https://ie eexplore.i eee.org	https://ieeexplore.i eee.org/abstract/d ocument/7322652	SCI

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2015-16

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Faculty Orientation Programme

About the Programme

Narula Institute of technology organizes Annual Faculty Orientation Program for all the new recruits every year. All the Faculty members, Technical Assistants and staffs spanning all the departments attends the program to learn from experts about various aspects of teaching and learning. The Orientation Program's primary goal was to familiarize the participants with their roles and responsibilities. It was designed to orient them on various generic aspects of teaching learning, instructional methodologies, and assessment and evaluation techniques. The curriculum consisted of three modules Pedagogy, Research, and Ethics in Profession. Day 1 focused on science and engineering core where NiT expert faculties shows the participants how to prepare for lectures for various courses where topics ranged from physics, mathematics, electrical and electronics engineering etc. to project development. The second day started with lectures on curriculum constituents, academic structure of NiT, how to evaluate lectures and course monitoring, MOOCs, flipped classroom paradigms etc. On the third day included discussions on UG program, B. Tech. Project, faculty improvement, how to engage the UG and PG students in academic and extracurricular activities. On day four lab visits were organized to show them different laboratories at NiT. These tours included physics, chemistry, central workshop etc. Day 5 the group was divided according to their departments and visits were arranged to respective departments for closer interactions with faculty. These also included lecture on departmental core teaching strategies. As mentors we need to keep them motivated to evolve their teaching and research. We need to keep them involved in several activities through which they gain confidence and have a better understanding of their role as an educator. Some the following activities that can be beneficial for them:

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

Modules/Topics:

- 1. General Principles
 - Welcome Talk General Feature of Institute
 - Presentation on Academic Structure at NiT
 - Generic curriculum and its Constituents
 - Learning evaluation through quizzes, exams, projects.
 - Course monitoring mechanism at NiT
 - Mentoring System

2. Basic Fundamental Subjects

- Core Physics objectives, content, preparation, delivery, expectation
- Core Mathematics objectives, content, preparation, delivery, expectation
- Core Chemistry objectives, content, preparation, delivery, expectation
- Overcoming functional English deficiency
- Need for simple experimentation in classroom teaching

3. Departmental core

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

4. R&D and Consultancy

- Discussion on Faculty improvement continued research
- Scope of Consultancy

Resource Persons

SI No.	Name	Department		
1	Prof. J. K. Das	Electronics and Communication Engineering, NiT		
2	Prof. Biman Mukherjee	Civil Engineering, NiT		
3	Dr. S. Panda	Electronics and Communication Engineering, NiT		



List of Registered Participants

SI No.	Faculty Name	Designation	Gender	Department	
1	Bikash Panja	Assistant Professor	Male	Mechanical Engineering	
2	Ankesh Samanta	Assistant Professor	Male	Mechanical Engineering	
3	Akhtarujjaman Sarkar	Assistant Professor	Male	Mechanical Engineering	
4	Arya Banerjee	Assistant Professor	Male	Civil Engineering	
5	Ushnik Chakrabarti	Assistant Professor	Male	Electrical Engineering	
6	Sandip Chanda	Associate Professor	Male	Electrical Engineering	
7	Reshmi Chandra	Assistant Professor	Female	Electrical Engineering	
8	Sanchari Kundu	Associate Professor	Female	Electrical Engineering	
9	Abira Sengupta	Assistant Professor	Female	Computer Science and Engineering	
10	Susmita Das	Assistant Professor	Female	Electronics and Instrumentation Engineering	
11	Dibyendu Sur	Assistant Professor	Male	Electronics and Instrumentation Engineering	
12	Tamal Kanti Ghosh	Assistant Professor	Male	Basic Science and Humanities	
13	Sharmistha Sikdar	Assistant Professor	Female	Basic Science and Humanities	
14	Bikramjit Sarkar	Assistant Professor	Male	Information Technology	



Some Glimpses of the Event











Student Activities Chapter 7

Students Publication:

- > S S Nath. M R Kaniilal. Swift heavy ion irradiated ZnS quantum dots and their applications as Nano LED. International Journal of Current Research (Accepted for publication, May, 2015) Impact Factor 5.349
- o S S Nath, G Gope, A Ganguly, M R Kanjilal, ZnS quantum dots for nano devices, Journal of Science (Accepted for publication in April, 2015).
- o S S Nath, M R Kanjilal, SnO2 quantum dots for Nano LED, National Conference on Frontiers of Research in Chemical Sciences, March, 13-14, 2015, D M College of Science, Imphal, Manipur
 - Ms. Isita Mitra of Narula Institute of Technology contributed invaluably by presenting the paper entitled "Fusion Based High Level Salt and Pepper Noise Removal" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- > Mr. Abhrajyoti Das of Narula Institute of Technology contributed invaluably by presenting the paper entitled "Car Plate Segmentation with Sliding Concentric Window Technique" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- o Mr. Anup Sharma of Narula Institute of Technology contributed invaluably by presenting the paper entitled "Car Plate Segmentation with Sliding Concentric Window Technique" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- > Mr. Aritra Das of Narula Institute of Technology contributed invaluably by presenting the paper entitled "A Robust Factoid based Question Generation System" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- Ms. Ishita Das of Narula Institute of Technology contributed invaluably by presenting the paper entitled "Detection of Malware Using Features Ranking and Its Classification Using Voted Perceptron Classifier Along with Virus Identifier And Alphabetic Precedence Marker" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.

Narula Institute of Technology

- > Mr. Nobhonil Roy Choudhury of Narula Institute of Technology contributed invaluably by presenting the paper entitled "Application of Chaos Game Tri-nucleotide Representation in Comparison of Coding Sequences of β-globin Gene" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- Mr. Pratyush Choudhary of Narula Institute of Technology contributed invaluably by presenting the paper entitled "Improving Bit Board Move Generation in Chess" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- Ms. Shreeparna Sarkar of Narula Institute of Technology contributed invaluably by presenting the paper entitled "A Robust Factoid based Question Generation System" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- > Mr. Susovan Nandy of Narula Institute of Technology contributed invaluably by presenting the paper entitled "Fusion Based High Level Salt and Pepper Noise Removal" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- Mr. Vishal Nath Tiwari of Narula Institute of Technology contributed invaluably by presenting the paper entitled "Detection of Malware Using Features Ranking and Its Classification Using Voted Perceptron Classifier Along with Virus Identifier And Alphabetic Precedence Marker" in the "Regional Student Convention 2015" organized by Computer Society of India Region II & Computer Society of India, Kolkata Chapter, held at Narula Institute of Technology, Kolkata, India on 14th March, 2015.
- Debanjan Chatterjee (MTech passout) and Prof. Arkendu Mitra published journal paper in online journal International Journal of Scientific Research and Management, ISSN: 2321-3418, Manuscript ID: 657608ijsrm
- Moinak Chowdhury, Dr Pranam Paul; "Block based Data Encryption and Decryption using Algorithmic Operations"; Manuscript No CIIT-IJ- 5668; Accepted and Published in "CiiT International Journal of Networking and Communication Engineering"; Impact Factor 1.953; ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 – 9616; February' 2015; pp 74 – 78
- Rajat Das, Dr Pranam Paul; "Block based Cryptographic Protocol using Sequence of Rearrangement of Points"; Manuscript No CIIT-IJ- 5712; Accepted and Published in "CiiT International Journal of

Networking and Communication Engineering"; Impact Factor 1.953; ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 - 9616; March' 2015; pp 95 - 98

- > Gopinath Mukherjee, Dr Pranam Paul; "Implementing the Information Security using Factors of Number"; Manuscript No CIIT-IJ-5713; Accepted and Published in "CiiT International Journal of Networking and Communication Engineering"; Impact Factor 1.953; ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 – 9616; March' 2015; pp 99 – 102
- > Anyan Banerjee, Dr Pranam Paul; "Block based Data Encryption and Decryption using Number System Logic"; Manuscript No CIIT-IJ-5876; Accepted for Publication in "CiiT International Journal of Networking and Communication Engineering"; Impact Factor 1.953; ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 - 9616; May 2015
- Rajat Das, Dr Pranam Paul; "Block based Cryptographic Protocol with Arithmetic Operations"; Manuscript No CIIT-IJ-5887; Accepted for Publication in "CiiT International Journal of Networking and Communication Engineering"; Impact Factor 1.953; ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 -9616; May 2015
- > Subhankar Ghosh, Dr Pranam Paul; "Cryptographic Algorithm Based on Triangular Form"; Manuscript No CIIT-IJ-5878; Accepted for Publication in "CiiT International Journal of Networking and Communication Engineering"; Impact Factor 1.953; ISSN (Print): 0974 - 9713 & ISSN (Online): 0974 -9616; May 2015

Major Students Achievements

- DebolinaSarkar from ECE Dept, Anik Karan, SatyajitMahanta from EIE Department and SourjaTilak Banerjee from CSE Dept has been selected for Master of Science degree in foreign universities like AIT, Bangkok, Louisiana Tech university-UK, university of Missouri-kansas City-UK, University Of Manchester, United Kingdom.
- 2. NehaMazumder from CSE Dept. is pursuing her Masters in Computer Science from The Ohio State University, Columbus, USA.
- 3. Lakhi Singh from ECE Dept. have been selected for playing T-20 World Cup matches in the year 2016.
- 4. Subhodeep Roy from ECE Dept. working as scientist at BARC, Trombey, India.

- 5. Lakhi SinghCricketer of ShyambazarClub, received the Woman of The Match trophy from Ms. Jhulan Goswami, Former Indian Womens' Cricket Team Captain in the 3rd Budding Womens' Cricket Tournament which was held in between Shyambazar Club (CCMCCC) and Vivekananda Park Coaching Club.
- 6. Joy Roy from IT Dept. has Developed A "Air -Drone" Model In The Tech Fest of NIT, KRITANJ, 2016 & Successfully Demonstrated in front of CII Officials.
- 7. UpasanaMitra from ECE Dept got 1st runner up position in the Miss India 2016(Eastern India) finale.
- 8. AbhishekBrahmafrom EIE Dept. has published a book in the Kolkata Book Fair 2015. The title of his book is "The Rhapsody In Sync".
- 9. Rahul Sinha from Civil Dept. participated on regional round and got selected as "Zonal winner" to participate in National competition as 'solo singer' in MTV colours youth session-5.
- 10. Anjali Singh from CSE Dept. has been selected as Project Linked Person (Research) in Indian Statistical Institute (ISI), Kolkata.
- 11. ShikhaBiswas from ECE Dept. got second position in the "Medical Science" section in 23rd West Bengal state science congress at Presidency College.
- 12. Khusbu Shaw received Sri Dewang Mehta IT Awards 2016 organized by NASSCOM, 2016
- 13. Shikha Biswas, received 2nd prize in the "Medical Science" section, 23rd West Bengal state science congress, held on 28th to 29th of February, 2016 at Presidency College.
- 14. Sumit Jha received 1st Prize for TOP RANK in 3rd Year B.Tech, Sri Dewang Mehta IT Awards 2016 organized by NASSCOM
- 15. Soumyarup Ghosh, participated in 7th All India Inter Engineering College Academic Meet 2016 & innovative Model Competition organized by FOSET
- 16. Santanu Das, Shuvam Bannerjee, Moulita Dhar, Rakhi Rajak, Anik Mitra, Sankha Bose, receved 3rd Position Robotic Model Presentation Competition in SRIJAN'16 organized by Jadavpur University, on 26th and 27th February 2016
- 17. Bijan Changder, Aman Bogi, Ayush Gupta, Satyendra Kr. Pandit, Sushil Mahato, Poonam Jha, Students of ECE Department, demonstrated Project at International Book Fair 2016



- 18. Subarna Dey received 1st Prize for TOP Rank in ECE 3rd Year, Sri Dewang Mehta IT Awards 2016 organized by NASSCOM
- 19. Upasana Mitra is 1st runner up position in Miss India 2016 (Eastern India) contest. She will be participating in the Miss India 2016 finale.
- 18. Students of Narula Institute of Technology have published more than 100 research papers in various International and National conferences and journals in 2015-2016.



- 19. Nit became the Champion of the Unplugged Competition "Rhapsody" in Elixir'16 at B.P.Poddar Institute of Management and Technology on March, 20. The Band members: Rahul Sinha, Subhadip Roy, Souvik Mitra, Subhojit Dey, Rudraneel Barik and Dipanjan Datta Roy won the hearts of the judges through their musical exuberance.
- 20. Ms. Anwesha Roy (ECE 2014 pass out) is selected for Erusmas Mundas scholarship (1000 Euro per month) by the European Union to study at Anglia Ruskin University, United Kingdom.
- 21. Football team of NiT participated in Inter college Football Tournament at MCKVIE and bagged the Runner's Prize.





22. Narula Institute of Technology bagged 1st position in fashion show event of BP PODDER ANNUAL CULTURAL FEST - ELIXIR'16 on 16th March, 2016.



EVENT name-FASHIONISTA THEME- MISERABLE PLIGHT ON WOMEN IN INDIA

Characters played-- 1) Story teller- Snehi Suman 2)Sita- NivediTa Vissamshetty 3)Draupadi- Namrata Roy 4) Satidaho- Adrita Biswas 5) Lack of education among girls- Shilpa Malty 6) Forced marriage- Shalini Bash 7) Female foeticide- Madhuparna Das, Shreyashi Dasgupta 8) Power- Pamela Sinha

23. Sulekha Chanda, Diploma 1st year student and Rahul Sinha, B.Tech 4th year student of Narula Institute of Technology participated in Regional Round and got selected in Zonal Round as SOLO SINGER in Mtv Colors of Youth Season 5.....Sulekha was the winner of kolkata zonal round.

- 24. Drama Team of NIT "Axtericser Dolbol" was awarded 3rd position in the culrural fest of IIM, Kolkata "Carpe Diem". They competed with different Institutes from across the country.
- 25. On 21st January, our Students' Fashion team had participated in the UTSAV 2K16 at Vidyasasar College and bagged the 1st prize.
- 26. One enthralling news to share with all of you that Fashion Team of NiT participated in the fashion show at Techno India Fest (Anakhronos) and bagged the runner up prize

Narula Institute of Technology has won the 3rd SJSCT 2016 students cricket tournament held in Gurunanak Campus during 4th to 6th February 2016.



students of EIE 2nd year, Soujatya Chaudhuri, Argha Mitra, Anumita Dey, Debatra Choudhury and Tirthankar Saha (under the guidance of TIC-EIE, Dibyendu Sur) have won the 2nd Best paper award in 7th Inter College Academic Meet organised by FOSET (Forum of Scientists, Engineers & Technologists) in Electrical engineering and Instrumentation Engineering subsection on 13 March, 2016.

Shikha Biswas, M Tech- ECE, 2nd year student of Narula Institute of Technology published a paper in 23rd West Bengal state science congress, held on 28th and 29th of February, 2016 at Presidency College. She stood 2nd in the "Medical Science" section.

ECE 2nd year students of Narula Institute of Technology, SANTANU DAS, SHUVAM BANNERJEE, MOULITA DHAR, RAKHI RAJAK, ANIK MITRA, SANKHA BOSE secured 3rd Position in Robotic Model Presentation Competition in SRIJAN'16 organized by Jadavpur University on 26th and 27th February 2016



Seminar / Workshop Attended by the students

SI. No.	Subject/ Matter	Date 18-22nd July 2016	
1	Reort TEQIP Sponsored worksho on " Fundamentals of Electronics & Communication Systems, 2016		
2	Report on Project Demonstration at Book Fair,2016	08.06.16	
3	Report on a Seminar on "MEMS & Sensor Design"	13.01.16	
4	Report on One Day Seminar "Recent Researches on Wireless Communication"	25.07.15	
5	One day Seminars "Recent Researches on Wireless Communication" Registration Form	25.07.15	
6	Notice, IEEE Certificate Will be given to the participants	22.07.15	
7	6 th All India Inter Engineering College Academic Meet-2015 & Science & Technology Exhibition for a Sustainable Society	26.04.15	
8	ELP Eminent Lecture Program	20.01.15	
9	152 ^{no} Birth Anniversary Celebration of Swami Vivekananda	12.01.15	
10	PADARTH 2015, IIT BOMBAY	2015	



Chapter 8

Training and Placement

CareerCounseling Programs during2015-2016

There is a necessity of proper guidance, training and career counseling to help the studentsdeal effectively with the normal developmental tasks and face real scenario confidently. The Institute aims at providing not only higher education and knowledge but also the positive direction to students by making them quite clear and confidentabout their capability and thus correctly choosing the irfuture path of career. Hencevar iouscaree rcounseling programs, training and other related events are arranged every year. The details are asfollows:-

1. 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 Trainingon Aptitude and verbal an dnon-verbal reasoning classes and Mock tests from second year to final year. In the year 2015-2016, the resourceperson for this program was Mr. Tapas Mukherjee. He is a renowned national level trainer inthe field of aptitude training, currently associated with Constellation Training & PlacementServices. The duration of the training was 13.08.2015 to 18.12.2015. The total no. of students attended the training program is 2511 (approx). The schedule of the training sessions was shared to the students in corporating in the class timetable for all these programmes.

2, Mock Interview Sessions

The Institute conducts mock interview sessions for all the final year students. Theobjective is to gain the knowledge of different techniques for appearing in the interview. Theresource person for this programme is Ms.LeenaSarkar, Dept. of BS & HU, Narula Institute of Technology and Mr. R.R Rajguru, GM Training, JIS Group of Educational Initiatives. Around 2019students participated in this Training programme. The program started on 21.08.2015 and ended on19.12.2015. This PI training was conducted once in a month throughout the whole semesterforfinalyearstudents.

3. MockTestSessions onAptitudeTraining&Verbal&NonVerbalReasoning

To enhance the technical competence of the students, the institute organizes different mock testsessions for all final year students. The programme commenced from 22.08.2015 and ended on16.12.2015. Identity Training services Pvt. Ltd was in charge of this event. The total no. of students who attended this program was approximately 2173. The schedule of the training class es was shared to the students earlier by incorporating it in the ir usual class timetable

4. MockTestPackagesofvariousCompaniesforpracticebeforeplacementdrive

The institute offers the technical training from second year to final year students. Prior to theplacementdrive, the students appear for the mock tests essions through different test packages. Narula institute of technology has collaborated with external vendor like Co-cubes. The cocubes platform offers the mock test packages of various companies for practice of the students. The tests packages have been offeredbefore the placementdrive

5. Pre Placement Talks

To create the awareness about different companies among students pre placement talks were organized by the institute. A number of renowned companies like TCS,IBM, Hexaware, CTS, Persistant, Genpact, visited collegeintheyearof2015-Wipro. Simplex Infrastructure 2016. Thesetalks were organized centrally by the Training and Placement cell of the institute. The trainers of these events were the concerned resourcepersonsofthecompanies.

6. Problemsolving BasedonMachineLearningandDataScience

To strengthen the knowledge in emerging technologies a seminar was organized. Machine learning allows the user to feed a computeralgorithm an immenseamountofdataandhavethecomputeranalyzeandmakedatadrivenrecommendations and decisions based on only the input data. The date of the program was resourcepersonwasMs.ChandrimaChakraborty,Dept.of CSE,NarulaInstitute 21.06.2015. The Technology and thetotalstrengthis 364.

7. Seminaron Application on Problem Solvingin JAVA

Nowadays, Java is the basic requirement for the software industry. The topics like Big Data, testingtools, coredesktopapplications, Webapplications, Testing Scripts, Android application developmentthese are the need of the hour. The students eager to learn the above mentioned topicsneed to have a core thing mind. Narula Institute Java background. Keeping this in Technologyorganizedaseminaron13.09.2015. Thesessionwasaddressed by Prof. Ms. Shyamapriya Chowdhury, Dept.ofIT, NarulaInstituteofTechnology.TotalNumberofparticipantswas463.

8. SymposiumonComputer Visionandit'sApplicationinIndustry

Computer vision is a field of artificial intelligence (AI) that enables computers and systems to derivemeaningful information from digital images, videos and other visual inputs — and take actions ormake recommendations based on that information. To motivate students in this field, the instituteorganized a session on AI on 12.10.2015. The resource person was Prof. Debrupa Pal, Dept. of CA, NarulaInstituteofTechnology. The total strength of this programwas 63.



TOL-109

9. What IndustrySpeakson ENERGYMANAGEMENT:Panel Discussion

The Energy Management can bebroadly defined as the proactive, organized and systematic management of energy use in a building or organization to satisfy both environmental and economic requirements. To enrich studentsin the above mentioned topic, Narula Institute of Technologyorganized a panel discussion on Energy Management on 14.11.2015. Prof. Sudhangshu Sarkar, Dept. of EE was the resource person and the total number of attended students was 92.

10. Technical Workshop on Fluid Power Control Systems Developed by Bocsh & Rexroth (GermanBasedCompany)

The Fluid power is the use of fluids under pressure to generate, control, and transmit power. Toenhance knowledge in this topic the institute had organized a Technical workshop on Fluid PowerControl Systems on 17.11.2015. The resource person was Prof. Rajkumar Banerjee, Dept. of CE, Narula Institute of Technology. The total number of participants was 91.

11.DemonstrationonRoboticArmforIndustrialApplications

NarulaInstitute of Technology had organized a seminar on Arm for Industrial Applications on 08.06.2015. The seminar covered some applications of robots include welding, painting, assembly, disassembly, pick and place for printed circuit boards, packaging and labeling, palletizing, productinspection, and testing. The main purpose of arranging this type of seminar is to encourage morestudents in this field. The resource person was Prof. AnukulMaity, Dept. of CSE, Narula Institute of Technology.

Training for Competitive Examinations during 2015-2016

The training programs for competitive examination aims at motivating the students to participate in various competitive examination (GATE, GRE etc.) as well as preparing the students to face the challenges of the competitive examinations. It also helps creating awareness about different types of competitive examinations available for the students. This type of examination ori ented training lays a solid foundation for preparation of such examination. The students develop insightful understanding of these examinations and can prepare themselves into a potential career avenue.

1. Training class for competitive exam GATE

To acquire the skill set of solving different problem for GATE(Graduate Aptitude Test forEngineers), Narula Institute of Technology has organized training classes for all thefinaland pre final year students of all departments throughout the whole semester (August to December). The faculties from different department used to conduct his training classes.



2.. Training classforcompetitive exam GRE

The GRE test is one of the most widely accepted post-graduate entrance examination, particularly in the United States and English-speaking countries such as Canada and Australia. The institute has organized training classes of GRE for all the final and pre finalyear students of all departments on 22.11.2015. The resource person was Ms. Rajasi Ray, Depto fBS&HU, Narula Institute of Technology.

3. Training class for competitive exam UPSC/IES

To excel in any Govt. examination or in any administrative jobs, the Institute has organizedtraining classes for the preparation of UPSC/IES, for all the final and pre final year studentsof all departments on 19.03.2016. The session was addressed by Prof. SandhyaPattanayak,Dept.ofECE,Narula InstituteofTechnology. Theattendance was 18.

4. Training class for competitive examIELTS

The IELTS Academic test is suitable for those aspiring to study in an English-speaking environment or university (higher education). The Institute has organized training classes forthe preparation of IELTS for all the final and pre final year students of all departments on 03.02.2016 with 11 students. Prof. Sharmistha Basu, Asst.Professor, English, NarulaInstitute of Technology o facilitated the students.

Training Snapshot:

- Beyond the Curriculum Training for 2nd& 3rd year students by the in-house faculty members & external training vendors.
- Aptitude & Soft Skill Training for the pre final & final year students by the external training vendors.
- Technical software training for the pre final & final year students by the in-housetrainer.
- Mock GDsessions
- Industrial trainings as opted by thestudents.
- MyPerfecticeongoing preparatorymodules



PLACEMENT RECORD FOR OUT GOING BATCH

Number of outgoing student	Number of placed student	percentage	How many students have cleared Civil Services and Defense examinations, NET, SLET, GATE and other competitive examinations	Number of student APPEARED in national / international examinations
710	593	83.52	8	40



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 stakeholder of this Institute and presenting the annual report of 2015-16

Principal JARULA INSTITUTE OF CHNOLOGY rara, Kol-109