

ANNUAL REPORT

July'2016 to June'2017



Narula Institute of Technology

81, Nilgunj Road, Agarpara Kolkata – 700109

West Bengal



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Chapter 1

Principal's Message

– Marching Ahead

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

Dear all,

Technical Education is the backbone of every nation and is the stepping stone for a country to move into the niche of a developed nation. It gives me immense pleasure to welcome you to the creative world of Narula Institute of Technology which has very eco-friendly campus and is equipped with state-of-the-art infrastructure.

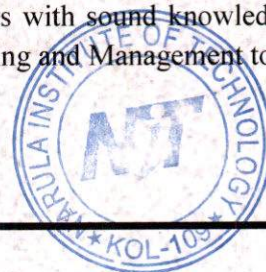
The Institute offers courses leading to B. Tech. Degree in seven disciplines and MBA, MCA and M.Tech, courses in Electrical Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Microelectronics & VLSI Design and Civil Engineering. Many of the departments have been accredited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

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.

We have well equipped labs, workshops, libraries, air-conditioned seminar halls, round the clock internet facilities and separate hostels for boys and girls. The campus has adequate sports infrastructure to take care of Sports and recreational activities. During the last 17 years nearly 14000 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.

Creating better human beings is our motto and we can do that when we are able to mould our students with values which are embedded for life. We aim to provide an overall development that nurtures them towards becoming strong and focused human beings.

Soft skills and educational skills is what the institution seeks to provide every student at the campus. The main focus of the Institution is to empower students with sound knowledge, wisdom, experience and training at the academic level of Engineering and Management to



qualify in the highly competitive global industrial market. The college has a full-fledged Placement and Training Centre which has enabled our students to get job offers from many leading organizations.

The infrastructure facilities and state-of-the-art equipment combined with competent, talented and dedicated faculty contribute to an enjoyable and an easy learning experience. 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.

I wish the students all the very best and the members of the institution who reiterate their aims at providing the best in academic and extra-curricular fields.

I thus present to all the stakeholders the Annual Report of NiT from July 2016 to June 2017.

Thanks and Regards,



Prof. (Dr.) Maitreyi Ray Kanjilal

Principal
Narula Institute of Technology (
(Under the aegis of JIS Group)

Principal
NARULA INSTITUTE OF TECHNOLOGY
31, Nilguni Road, Agarpara, Kol-109

Chapter 2

About The Institute

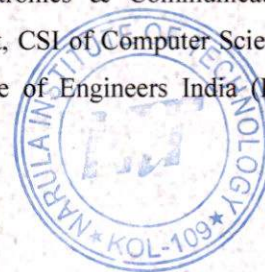
Introduction

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

VISION

To 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

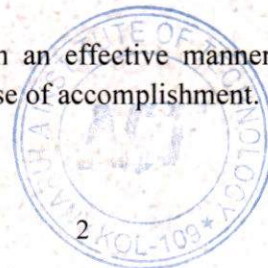
Best standards and practices of good governance, to be put in place to bring in transparency of operations and improve credibility at all levels.

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.

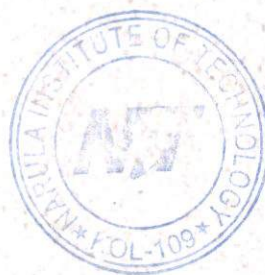
Student admission for B.Tech is through **WBJEE**. Whereas for M.Tech the intake is through **GATE** score and **PGET** examination.

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.



Events

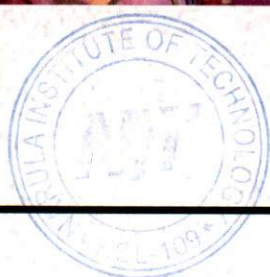
International Yoga Day Celebration on 21st June'17

Yoga revitalizes our mind and body and teaches us the value of discipline. The International Yoga Day was a great opportunity for the faculty and staff members of Narula Institute Of Technology to discuss and understand the different benefits of Yoga postures. The session started with the discussion on importance of yoga, which was followed by warm up exercises and Surya Namaskar. The different steps were demonstrated and its usage was explained. The staff members practiced some of the common asanas which included Dhanura asana, Chakra asana, Bhujanga asana etc.. and ended with meditation. The event concluded with a promise to practice Yoga in the campus after the college hours which is thought to enhance physical and mental stamina of the teaching fraternity of the institute.



NiT Jewels on May 12, 2017

"NiT Jewels" the Annual Awards Day celebration was organized at the heart of NiT on May 12, 2017. The award ceremony started with the best wishes from the honorable Principal of NiT, Prof (Dr) M R Kanjilal. In this ceremony with pride and glory the institute awarded the students under four categories: Academic Excellence, Technical Innovation, Cultural Exuberance and Sports Caliber. . The journey of NiT started in 2001 and has completed more than fifteen years in the field of education. The spectrum of colours has illumined the dynamic performances of this institute which would not have been possible without the effort of the "Stalwarts of NiT" who have completed over a decade of service in this Institute. Nit also felicitated the scholars who have contributed in the area of Research & Development of the institute by receiving grants in major and minor projects, securing patents and providing consultancy services. The most awaited award, the "College Blue", was conferred to Abhishek Juneja, 4th year, Department of Electronics & Communication Engineering for consistent academic performance in the last four years and for exhibiting magnificent technical creativity and sense of responsibility. Nit Jewels 2017 geared up the students and staff members for a better tomorrow.



Navodaya

Narula Institute of Technology has organized its Annual Cultural Fest, **Navodaya 2k17** on 21st & 22nd April at Eco Park. On 20th April the following events were organized at Narula Institute of Technology. The events are : Artistic Inclination, The Paint Doctor, Drama, Short film, dance, Western Solo, Eastern Solo, Instrumental, Elocution, DEBATE and on spot speech competition.



TV show

To discuss the preparation and awareness of CEE-AMPAI, WB 2017, Prof Dr. M R Kanjilal Principal- NiT along with Mr Bidyut Majumdar- AGM JIS Group was invited by DD Bangla channel on 14th April in the programme "Ki hote chai". There were overwhelming response from the students and guardians during the one hour programme.



National seminar

proceedings of National Seminar on Application of Mathematics in Technology and Management (NSAMTM 2016) organized by BS & HU (Mathematics) during 8-9 September, 2016 has been published with ISBN no (978-93-84659-98-1).

Bengali New Year celebration



Advance Computing, Communication and Devices'2017 (NCACCD 17)

16th– 17th March, 2017



TEQIP Sponsored National Conference on Advance Computing, Communication and Devices'2017 (NCACCD 17) 16th– 17th March, 2017 National Conference on Advance Computing, Communication and Devices (NCACCD'2017) seeks to bring together national researchers,

industrial experts and academicians to present papers and generate discussions on current research and development in state-of-the-art technologies in Computing and communication. NCACCD'2017 focuses on Advances in Computing and Communications, and it will provide a forum for sharing insights, experiences and interaction on various facets of evolving technologies and patterns related to Computer Science, Information Technology and Electronics. The highlights of the conference will be plenary sessions by experts on emerging perspectives of computing in the fields of Network Security & Cryptography, Cloud Computing and Big Data Analytics, Data Mining and Data Warehouse, Communication and Nano Technology, VLSI and Image Processing. The conference provides the most relevant opportunity to bring together students, researchers and practitioners from both academia and industry. The conference will include a peer reviewed program of technical sessions.



AIT



Mini Marathon 2k17

The bystanders and the residents at Kamarhati witnessed a spectacular show of harmony on March 8, 2017 when around five –hundred participants ran gleefully and enthusiastically in the 4 km Mini Marathon organized by Narula Institute of Technology, under JIS group Educational Initiatives. The Marathon echoed the slogan ‘Run with gaiety, Pledge for Parity’. This event aimed to spread the message of Gender uniformity among the people. Besides the participants from the host institute, the schools in the neighbourhood also joined the Marathon in order to express their solidarity. The gender split was 46% females and 54%males and the participants ranged in the age group between

12 to 65 years. The participants took an oath in favour of Gender uniformity before the commencement and then with the count of ten the race was flagged off by two great luminaries who were also the guest of honour of the event, Mr Dipankar Biswas, Ex National Footballer and Mr Bibaswan Ganguly, International Shooter and common wealth game medalist from Kamarhati bus stand at 4pm. The runners were escorted by a furnished van where the cultural team of the college sang in chorus and imparted the message of parity and integrity. The entire route was well managed by the college volunteers and the traffic control. The event was graced by Mr Dipankar Biswas, Ex National Footballer and Mr Bibaswan Ganguly, International Shooter and common wealth game medalist, Principals of neighboring schools and the dignitaries of JIS group. The top finishers in the Men’s category: Winner-Saharukh Shaikh - NiT (Dept. of Information & Technology), 1st runner up-Srinath Bhoi – NiT (Dept. of Computer Application), 2nd runner up-Md. Saif Ali Khan- NIT(Dept. of Mechanical Engineering). The top finishers in the Women’s category: Winner- Triasa Dhar from Sodepur Chandrachur Vidyapith for girls, 1st runner up – Ishika Ghosh from Haradayaal girls’ high school and 2nd runner up – Swarnali Bose from

Belghoria Mahakali girls' high school. The Marathon touched the lives of the local people and ended with a note of respect to the womanhood.



Kritanj

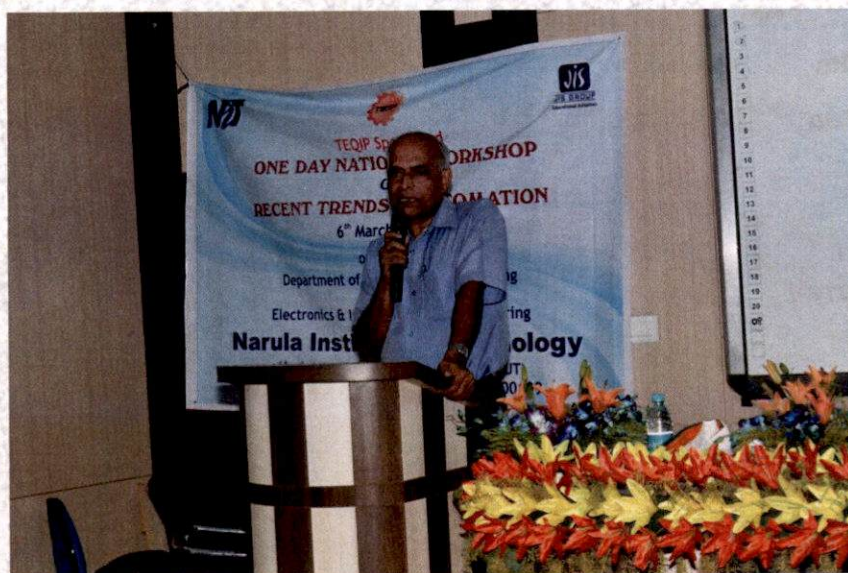
Kritanj 2k17 witnessed a brilliant display of ingenious projects by the school students. The young learners of the schools added colour to this innovative display through the skilful models prepared by them. Around 271 students from 17 different schools participated in the Project Display. The day I of KRITANJ witnessed a spectacular show of creativity and zeal.





One day National Workshop on "Recent Trends in Automation"

The Department of Mechanical Engineering in association with Department of EIE organized a one day workshop on recent trend in Automation. Experts from different higher institute of learning focused on the importance of emerging trends in automation which is of utmost importance to the students of ME and EIE students. The session was inaugurated by Prof S Bhowmick, Prof of IIST.

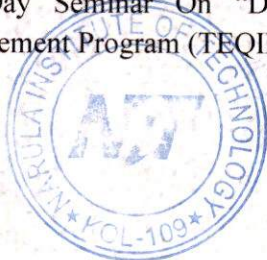


NATIONAL CONFERENCE ON ELT FOR MANAGEMENT AND TECHNOLOGY :RECENT TREND

The department of Basic Science & Humanities(English) in association with Business Administration Department of Narula Institute of Technology successfully conducted a National Conference on the theme of 'ELT for Management & Technology: Recent Trends" on 27th-28th February, 2017. The first day began with the formal inauguration of the Conference where Dr.Sumit Nandi,HOD,BSHU & Conference organizing chair welcomed the august gathering. The Dean, R&D, Professor (Dr.) S.C.Konar and the registrar of the institute Ms.Nidhi Singh focused on the relevance and significance of the conference. This session was followed by the keynote address by Prof(Dr.) Asok Kumar Hui, a former Professor of English, University of Burdwan and member of the External Faculty of the Central Institute of English and Foreign Languages(presently known as EFLU).The Plenary sessions were enlightened by Dr.Baishali Hui, an Associate Professor of English at the University of Kalyani and Dr. Sharmistha Chatterjee (Sriwastav), an Associate Professor in English at Aliah University, Kolkata. The post lunch session witnessed the scholarly presentations by the faculties, Research scholars and students who came from different institutes of repute. The parallel sessions took place in three different venues and around thirty-two presenters shared their novel views and explored the theme of English Language Teaching in this present scenario of technological advancement. The scholastic discussions continued even during the High Tea session. The day 2 started with the Plenary talk by Prof (Dr) Malay Kumar Banerjee, the Dean and Head of Heritage Business School which was followed by the second plenary session by Dr. Sharmistha Banerjee,Professor, Department of Business Management, Calcutta University. Dr.Banerjee won the hearts of the management erudite by her strategic ideas on 'Employee Retention in organisations of Tomorrow'. The post lunch sessions had parallel presentations in Management and Technological track. In the Valedictory session the Conference Abstract Book was formally published and the Best Presenters in different categories were declared. This conference opened up several new dimensions in the teaching-learning of English language, Management and Technology.

One Day Seminar On "Distributed System"

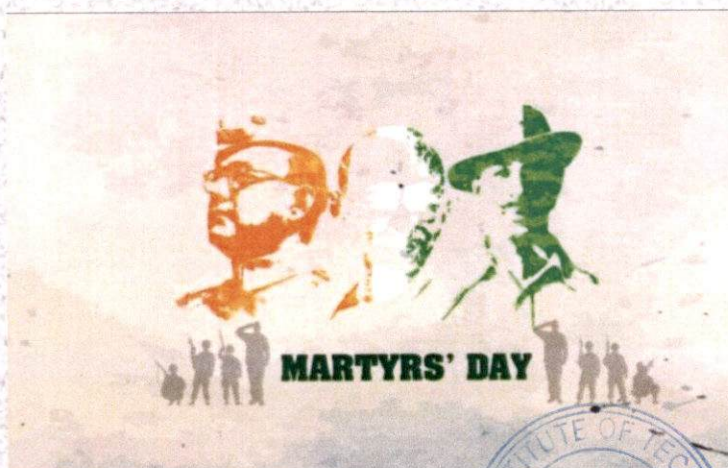
Department of Computer Science and Engineering of Narula Institute of Technology organized a One Day Seminar On "Distributed System" Sponsored by Technical Education Quality Improvement Program (TEQIP II) on 06th March, 2017.





Marty's Day (Mahatma Gandhi's Death Anniversary)

The day is celebrated at the Institute with remembrance of The Father of The Nation. Hymns are sung in remembrance of Bapuji and students are reminded of the contributions Mahatma Gandhi towards the Independence Struggle.

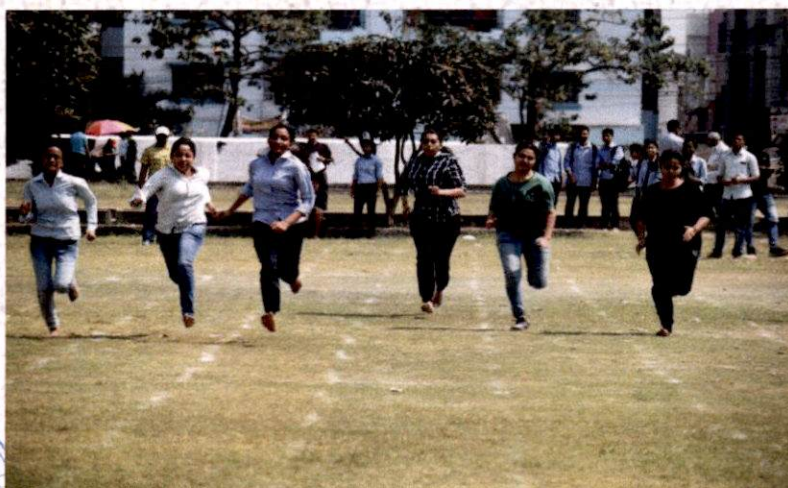


National Workshop of ME Department

Two Days National Workshop on “Recent Advances in Mechanical Engineering” was organised by ME Department of NiT on 24th & 25th February, 2017. Key note speakers from different renowned institutions namely Prof. Prasanta Sahoo, Prof. G.L.Dutta, Prof. G. Pohit and Prof.S.Das delivered their valuable lecture in the workshop.



Annual Athletic Meet 2017



Friendly Triserics Cricket Tournament



Russian Federation at NiT



Narula Institute of Technology witnessed a spectacular moment on February 25, 2017. Delegates from Russian Federation visited the college on the eve of The International Symposium on Gen Next Initiatives for Digital India & Launching of Centre of Excellence organised by JIS group. JIS group has signed an MoU with the Russian Federation for the betterment of the academic environment and has led to a knowledge transfer platform for the budding technocrats of JIS group. It is a proud moment for us and we look forward to some excellent collaborative work in the near future.

Observation of International Mother Language Day



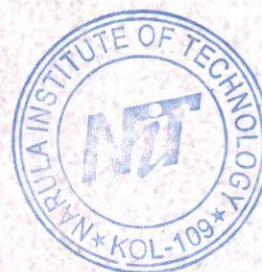
KATHAKOLI a garland of events, organized by Art and Literary club of the institute gave an opportunity to observe the International Mother Language Day on 21st February in a different way. The spontaneous participation of students in Essay and Elocution competition again proved the variety of skills they have. Our chief guest was Mr. Anirban Bhattacharya, a Bengali film and stage actor whose gracious presence made our event glorified. Our college drama group S6 and Sparsh performed along with the invited theatre group Balarko. Mr Anirban enlightened the performers and the students with words of encouragement. The observation of this special day was not confined only within the four walls of our college as Nit-ians aimed to hold the hands of the economically weaker and orphan children who are unable to have education properly. The students and staff members conducted a 'walk for a cause', which is a step taken by our college to give them a ray of hope and put a smile on their face. The walk had the mission to make awareness among people to

educate the children and go ahead together and make a better nation. The students carried appealing placards reflecting the mission of the Walk. Around 500 students walked gaily chanting songs which motivated the local people and added rhythm to make it more joyful. The walk ended with the distribution of study kits and sweets to the underprivileged children of the society.

Basic Rock Climbing & Nature Study Course, Gajaburu, Purulia



Around 15 students of our institute under the guidance of one faculty member participated in the four-day Rock Climbing and Nature Study Course at Gajaburu Hills, Purulia during 16th to 19th February 2017. The day started with the warm-up activities like free hand exercises and sprinting which were followed by the enthusiastic involvement of the students in Bolder Climbing, Long Face Climbing, Sequence Climbing, Rappelling, River Crossing and other ventures..At night the participants enjoyed the warmth of Campfire and Night Safari in the Camp environment. It was a memorable trip for the students at Purulia



Sardar Jodh Singh Intra JIS Group Employees' Cricket tournament



The bright Saturday morning witnessed the formal inauguration of 6th Sardar Jodh Singh Intra JIS Group Employees' Cricket tournament which is scheduled from 4th -6th February 2017. The tournament logo was inaugurated by Prof. Dr. B C Mal-VC, JISU and he declared the tournament to be opened. The welcome address was delivered by Prof. Dr. M R Kanjilal- Principal of the host college, NiT. The ritualistic commencement of this tournament was made by Prof. Dr. T K Saha - Director, GNIDSR who took the strike of the ball bowled by Dr. Annapurna Das-Director, GNIT. 6 Matches were played altogether between AEC, GNIT and JISSP in Group 1 and GKCEM, AIEM and DSCSDEC in Group 2. The semifinalist who emerged from Day- 1 matches were AEC and DSCSDEC. The other two semi-finalists were GNIHM and NiT. The final was played between AEC and NiT and it was an exciting affair and the match went to the wires. Ultimately NiT emerged the runner up.



Christmas 2k16 @NiT



1st day of Rising Star Audition @NiT



Corporate Pulse 2016

Narula Institute of Technology under the aegis of JIS Group organized a one day workshop “Corporate Pulse” on December 2, 2016 at its campus in association with INFOCOM 2016, an ABP initiative. It was a very innovative and challenging platform where students got an opportunity to interact with highly recognized professionals of National and International repute. The objective of the interactive session was to synchronize academic curricula with industry requirement. The technical thirst of every student was quenched and the workshop was highly productive in all aspects. The notable professionals who graced the sessions were: 1) Mr. Avinash Velhal, Group CIO at Atos International 2) Mr. Vipul Anand, Group CIO for Jindal Steel & Power Ltd 3) Mr. Joydeep Dutta, Group CTO at CDSL 4) Mrs. Puneet Kaur Kohli, Group Executive, Vice President, IT & CTO at Bajaj Capital Ltd



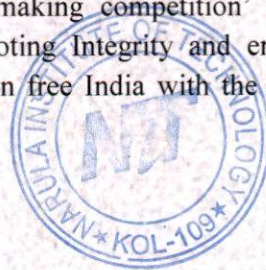
Educational Excursion

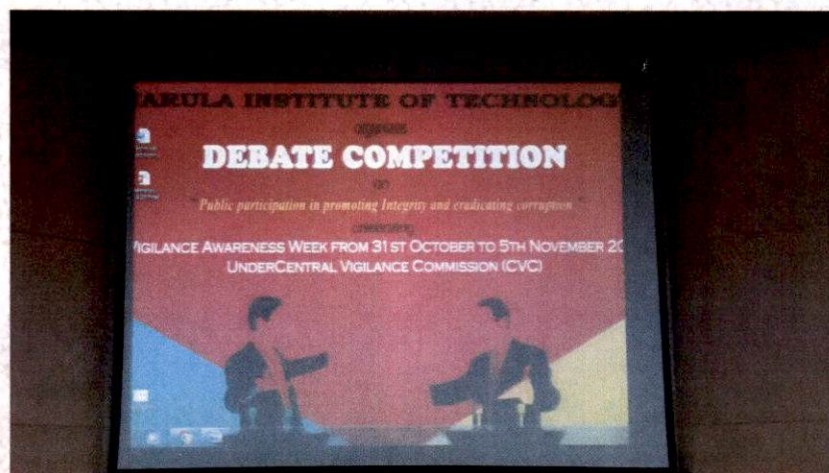
A crew from Ludhiana visited Narula Institute of Technology campus on 23rd November as a part of their educational excursion. The team was greeted cordially by the students and staff members of the institute. There was a brief meeting at the Seminar Hall of the college where the members of the crew and the Nit-ians exchanged their experiences about the modern trends in teaching-learning and career building. The visiting team felicitated Dr.M.R.Kanjilal, Principal of the college.



Vigilance Awareness Week

To eradicate corruption from the country and to spread awareness among students, the Vigilance Awareness Week was celebrated at Narula Institute of Technology as per the instruction of Central Vigilance Commission. Our students were highly motivated with the initiative and they organized a Debate Competition and a poster competition on the theme “Public participation in promoting Integrity and eradicating Corruption”. The students were extremely keen to voice out their views against corruption. In the debate both “for” and “against” groups were highly active and their highly logical understanding of the topic enthralled the audience. Their perception and awareness is too a great extent as they all aspire to live in a country which is being envisaged by our honorable Prime Minister, Shri Narendra Modi. “Poster making competition” was also organized on the same theme - “Public participation in promoting Integrity and eradicating Corruption”. Students expressed their imagination of a corruption free India with the stroke of their brushes.





Their brilliant word imageries with several colours evoke their desire to be a citizen of an untainted India glorifying peace and harmony. Students have also taken the “Citizen’s Integrity Pledge” conceptually understanding that “corruption” is one of the major obstacles to political, social and economic progress of our country. Some glimpse of the celebration...

Parichay- Fresher's Welcome

Narula Institute of Technology welcomed the freshers by presenting a dazzling evening decorated with colourful performances and games. The center of attraction was the creative and entertaining competition to crown the year's Mr. and Ms. Fresher. Sukhman Kaur and Subham Adarsh won the title of the night. The dancers of the college rocked the stage with their exotic performances and the singers enhanced the spirit of celebration with the melody. Dancing together with lights and DJ ended the event with a touch of magic.



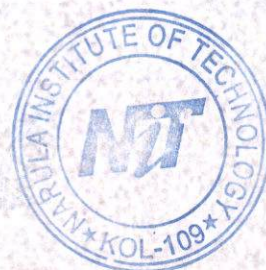
Nostalgia 2k16, the Alumni Meet

Nostalgia 2k16, the Alumni Meet organised by the Alumni Association of Narula Institute of Technology paved the platform for the assembly of the former students of the Institute. The event witnessed the bonding of all the Narulites - the present students, alumni, faculty & staff members. The program kept its promise of presenting a dazzling evening filled with fun, cultural performance and sharing of glorious moments down the memory lane.



World Earth Day

The day is celebrated at the Institute as a marker of the single largest commemorative environmental event worldwide. The global celebration of the day from earthday.org now involves over 1 billion people. The institute is a part of the billion in building environmental awareness.



International Conference at NiT

Narula Institute of Technology organized the TEQIP sponsored third International Conference on Computational Advancement in Applied Science and Engineering, (IC2A2SE-2016) from October 4-6, 2016. The aim of the conference was to share the ongoing research in the area of advanced applied science and Engineering. Altogether 74 research papers were presented in multifarious areas. The main attraction of the conference was the commendable presentations of the foreign delegates: Prof. Dr. Sun-Kyung Lee, Hangyang University; Prof. (Dr.) Myngchull Rhee, Chungnam National University; Prof. (Dr.) I-Fang Chung, National Yang-Ming University and Prof. (Dr.) Sheng –Fu Liang, National Cheng Kung University. The inaugural ceremony was glorified by the significant speech of the Conference Chair, Dr. Ajoy Ray (Director, IEST, Shibpur) and Dr. Phalguni Gupta (Director, NITTTR). The keynote speech was delivered by renowned professor, Dr. B.P.Sinha, Indian Statistical Institute and his area of discussion on “Energy Efficient Communication in Wireless Network” was multidirectional as it explored different facets of research in Engineering field. The presentation sessions were chaired by notable professors from National Universities: Prof. (Dr.) A.K. Mukhopadhyay, Ex. Director, SRGI; Prof. (Dr.) Abhinandan De, IEST, Shibpur; Prof. (Dr.) Debangshu Dey, Jadavpur University; Prof. (Dr.) Jayanta Maity, MSIT, Techno India; Prof. (Dr.) Amitava Chatterjee, Jadavpur University; Prof. (Dr.) Debashis De, MAKAUT, Kolkata. The three day conference was a tremendous success and a lot of interdisciplinary collaborations are expected to emerge from the fruitful discussions.

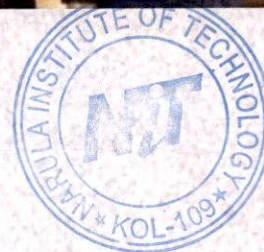


Staff Development Program

Nit organized a TEQIP sponsored Staff Development Program on Business Communication & Interpersonal Skills from 19-24 September, 2016. There were around 60 participants in this event. This one week SDP enabled the staff members to be groomed in the basics of Professional communication required in daily life.



The Electronics and Communication Department of Narula Institute of Technology had organized a "Quality Improvement Programme" for the 3rd year students on "Electronic Systems" from 6th to 10th March, 2017. The sessions were taken by Dr. DebasisMajumdar, CDAC and Prof. (Dr.) AmitavaChatterjee,



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 conducted on a regular basis for value addition in the lives of our students.

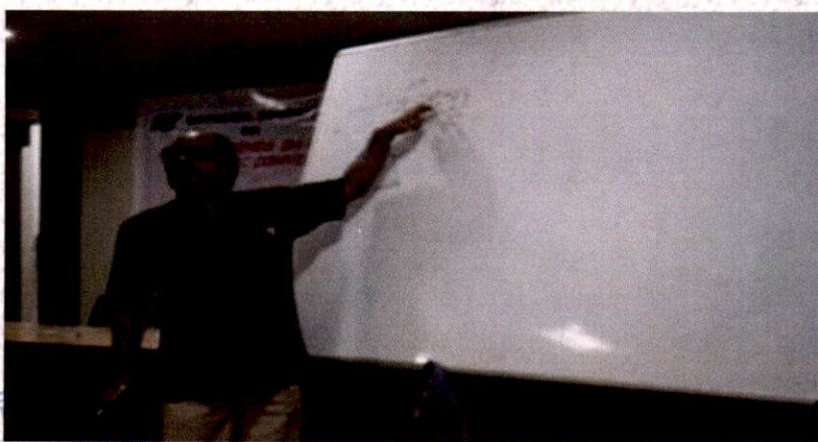
Name of the capability enhancement program	Date	Name of the agencies/consultants	Objective
Verbal, Non-Verbal Training EIE 2nd Year	31-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-ME 2nd Year	30-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-CE 2nd Year	27-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication

Verbal, Non-Verbal Training- IT 2nd Year	24-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training - EE 2nd Year Sec B	20-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training - EE 2nd Year Sec A	18-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-ECE 2nd Year Sec B	16-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-ECE 2nd Year Sec A	13-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-CSE 2nd Year Sec B	11-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Verbal, Non-Verbal Training-CSE 2nd Year Sec A	09-01-2017	Mr. Rahul Basak, Career Launcher	Enhancement of verbal and nonverbal communication
Soft Skill Training - IT 1st year	23-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - EIE 1st year	21-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - EE 1st year Sec B	19-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - EE 1st year Sec A	15-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - ME1st year	09-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - CE 1st year	07-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - ECE 1st year Sec B	06-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - ECE1st year Sec A	05-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - CSE1st year Sec B	02-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training -CSE1st year Sec A	01-09-2016	Mr. Tapas Mukherjee, Target Education	Enhancement of soft skills
Soft Skill Training - MCA and M.Tech	26-07-2016	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills
Soft Skill Training - IT 3rd year and EIE 3rd year	21-07-2016	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills

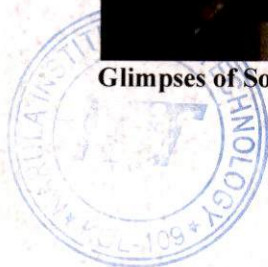
Soft Skill Training - EE 3rd year Sec B	20-07-2016	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of aptitude and soft skills
Soft Skill Training – EE 3rd year Sec A	19-07-2016	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills
Soft Skill Training - CE 3rd year Sec B	18-07-2016	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills
Soft Skill Training - CE 3rd year Sec A	15-07-2016	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills
Soft Skill Training - ECE 3rd year Sec B	14-07-2016	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills
Soft Skill Training – ECE 3rd year Sec A	13-07-2016	Mr Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills
Soft Skill Training - CSE 3rd year Sec B	12-07-2016	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills
Soft Skill Training -CSE 3rd year Sec A	11-07-2016	Mr. Madhusudan Dutta, Avteg Pvt. Ltd	Enhancement of soft skills



Soft Skill Training – IT (B. TECH) conducted on 25-07-16



Glimpses of Soft Skill Training EIE (B. TECH) conducted on 21-09-16



Language and Communication Skills

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

Name of the capability enhancement program	Date	Name of the agencies/consultants	Objective
Language and communication skills Training -CSE 1st year Sec A	16-02-2017	Dr. Leena Sarkar Bhaduri, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training -CSE 1st year Sec B	14-02-2017	Dr. Leena Sarkar Bhaduri, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training -CE 1st year	13-02-2017	Dr. Leena Sarkar Bhaduri, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training -IT 1st year	10-02-2017	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training -ME 1st year	09-02-2017	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training -ECE 1st year Sec A	08-02-2017	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	07-02-2017	Dr. Leena Sarkar Bhaduri, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training -EIE 1st year	06-02-2017	Ms. Rajasi Ray, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training -EE 1st year SecB	03-02-2017	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills
Language and communication skills Training EE 1st year SecA	02-02-2017	Ms. Sharmistha Basu, Narula Institute of Technology	Understanding of language and proper communication skills



Language and Communication Skills Training -EIE (B. TECH) conducted on 06-02-17



Language and Communication Skills Training -ME (B. TECH) conducted on 09-02-17



Language and Communication Skills Training -CE (B. TECH) conducted on 13-02-17



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	21-06-2017	Mr. Peenaz Reza, Yoga Trainer	Enhancing physical and mental health
Blood donation Camp	06-04-2017	Mr. Apurba Ghosh, Secretary General, Federation of Blood Donor Organizations of India, West Bengal Blood Donors Forum	Making students responsible towards society
Swachh Bharat Abhiyaan	18-11-2016	Dr Nikhilesh Sil, Narula Institute of Technology	To understand the importance of cleanliness
Free Eye Testing Camp	24-08-2016	Dr Nikhilesh Sil, Narula Institute of Technology	Making students aware about health
Session on Yoga CSE-1st year	22-08-2016	Mr. Peenaz Reza, Yoga Trainer	Enhancing physical and mental health
Session on Yoga ECE -1st year	19-08-2016	Mr. Peenaz Reza, Yoga Trainer	Enhancing physical and mental health
Session on Yoga ME and IT-1st year	19-08-2016	Mr. Peenaz Reza, Yoga Trainer	Enhancing physical and mental health
Session on Yoga EIE and CE-1st year	18-08-2016	Mr. Peenaz Reza, Yoga Trainer	Enhancing physical and mental health
Session on Yoga EE -1st year	18-08-2016	Mr. Peenaz Reza, Yoga Trainer	Enhancing physical and mental health
Session on Yoga M.Tech & MCA	11-08-2016	Mr. Peenaz Reza, Yoga Trainer	Enhancing physical and mental health

Session on Yoga

Yoga session are conducted on a regular basis for improving the strength and reducing the stress.



Students performing Yoga conducted on 21-06-17



Celebration of International Yoga Day conducted on 21-06-17

Swacch Bharat Abhiyaan

Institute organized Swacch Bharat Abhiyaan participated for cleaning the college and the areas adjacent to the college. The event motivated the students to clean their surroundings and spread the message cleanliness is next to godliness to free and democratic India.

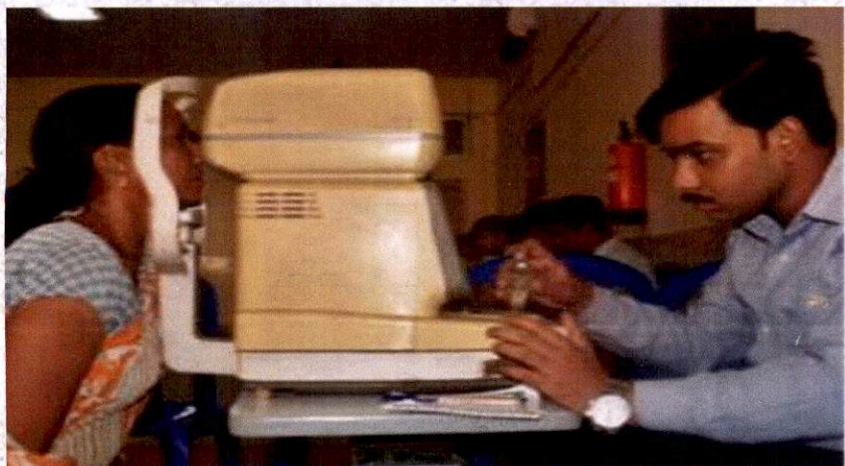


Students cleaning areas adjacent to the college conducted on 18-11-16



Eye Check-up Camp

Camp was organized to do eye check-up of the students, faculties and for poor people who can't afford to do their check-up. The objective of this event was to spread awareness among students about eye disorder, early detection and detect refractive errors and eye ailments.



Glimpses of Eye Check Up Camp conducted on 24-08-16

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 exposure to students about procedures, processes, work environment, and latest techniques used in the practical working environment. It gives them exposure to current work practices.

Name of the capability enhancement program	Date	Name of the agencies/consultants	Objective
Workshop on Composite Material and Application	24-052017 – 25-05-2017	Prof. P. Sahoo, Jadavpur University	Knowledge of composite material and application



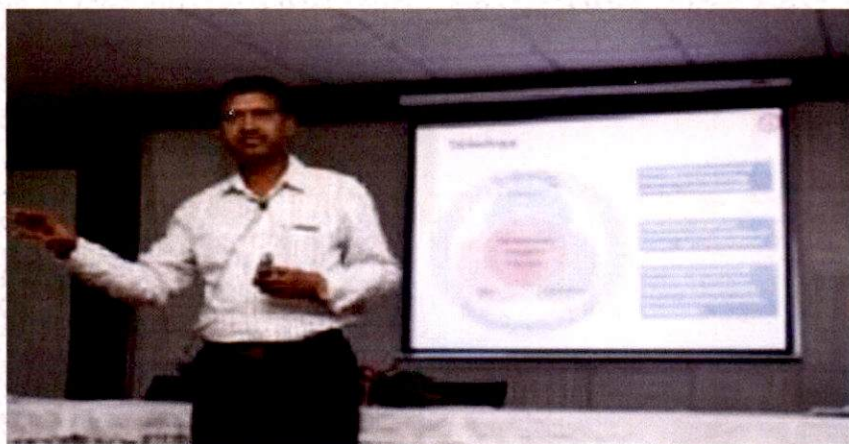
Industrial Visit to Super Heat Treatment Plant	03-05-2017	D Chowdhury, Super Heat Treatment Plant, Doltala, Madhyamgram	To obtain knowledge about the practical implementation of the latest technology
Workshop on Laser cutting System	03-04-2017 - 05-04-2017	Mr. K.G Pilsima, Electro steel Casting Ltd., Kolkata	Knowledge about laser cutting system
Seminar on Environment and disaster - protection and practices	30-03-2017	Mr. Ujjwal Saha, IEST, Shibpur	Knowledge about environment and disaster protection and practices
One day Industrial Visit to IOCL, Haldia	27-03-2017	IOCL, Haldia	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit to Kanchrapara Railway Workshop EE Group III	22-03-2017	Mr. Sitangshu Banerjee, Works Personal Officer, Eastern Railway Kanchrapara	To obtain knowledge about the practical implementation of the latest technology
Seminar on Modern Trends in Power Electronic Converters	20-03-2017	Dr. Biswarup Basak, Professor, Indian Institute of Engineering Science and Technology (IEST), Shibpur	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit to Kanchrapara Railway Workshop EE Group II	17-03-2017	Mr. Sitangshu Banerjee, Works Personal Officer, Eastern Railway Kanchrapara	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit to Vodafone, Agarpara	14-03-2017	Vodafone, Agarpara	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit to Kanchrapara Railway Workshop EE Group I	10-03-2017	Mr. Sitangshu Banerjee, Works Personal Officer, Eastern Railway Kanchrapara	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit to Metal and Steel Factory	07-03-2017	Metal and Steel Factory, Ishapur	To obtain knowledge about the practical implementation of the latest technology
One day National Workshop on Recent Trends in Automation	06-03-2017	Prof. S.Bhaumick, IEST, Shibpur	Knowledge gain about recent trends in automation
Industrial Seminar on Industrial Exposure	02-03-2017	Mr. Shibaparasad Banerjee, Mr. Aniruddha Chattopadhyay, IT Analyst, TCS	Knowledge gain about industrial exposure
Industrial Visit to BSNL, Kolkata	25-02-2017	BSNL, Bidhannagar center, Kolkata	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit at Haldia Petrochemicals	22-02-017	Mr. Bivas Roy Choudhury, HR.admin HPCL	To obtain knowledge about the practical implementation of the latest technology
One Day Workshop on Recent Trends in Automation	06-02-2017	Mr. Angshuman Ray, Rate Integration Technologies India Pvt. Ltd	Knowledge about trends in automation and IT
Seminar on Efficient Energy Utilization through Demand Side Management	02-02-2017	Dr. Jitendranath Bera, Professor, Department of Applied Physics, University College of Science & Technology, Rajabazar, C.U,	Knowledge of efficient energy utilization

Industrial Visit at DWR center, Kolkata	29-11-2016	Doppler Weather Radar Center, New Secretariat Building	To obtain knowledge about the practical implementation of the latest technology
Seminar on Internet of Things (IoT)	25-10-2016	Mr. Chiranjit Nandi, Sr. Scientist TCS Innovation Lab, Kolkata	Knowledge about Internet of Things (IoT)
Industrial Visit to TechTree Technologies Group II	02-09-2016	Mr. Anirban Banerjee, TechTree Technologies, Kolkata	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit to TechTree Technologies CSE Group I	01-09-2016	Mr. Anirban Banerjee, TechTree Technologies, Kolkata	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit at TCS Innovation Lab, Kolkata	17-08-2016	TCS, Innovation Lab, Kolkata	To obtain knowledge about the practical implementation of the latest technology
Workshop On Fundamentals of Electronics and Communication Systems, 16 (WFECS, 2KH)	18-07-2016 - 22-07-2016	Dr. Saradindu Panda, Narula Institute of Technology	Knowledge about fundamentals of Electronics and Communication Systems,
Industrial Visit to Mukesh Training Academy ME Group II	12-07-2016	Mukesh Training Academy	To obtain knowledge about the practical implementation of the latest technology
Industrial Visit to Mukesh Training Academy ME Group I	11-07-2016	Mukesh Training Academy	knowledge gain about the practical implementation of the latest technology



Industrial Visit to Super Heat Treatment Plant conducted on 03-05-17





Seminar on Internet of Things (IoT) conducted on 25-10-16



Industrial Visit to IOCL Haldia conducted on 27-03-17



Industrial Visit to Mukesh Training Academy conducted on 11-07-16

Orientation Programme 2016 for the 1st year students

The one week Induction Programme **IP2K16** for the 1st year students (B.Tech, 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 addressal. 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. (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.



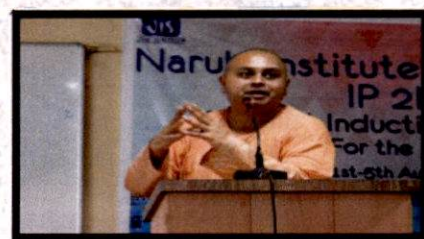
Day-II, 2nd August: The students received a foreword in context to the subjects they would learn in their 1st year. Dr.Sushmita Karan gave an overview of the Basic Physics while Dr. Rupa Bhattacharyya explained the importance of Chemistry in Engineering. Dr.Debjani Chakraborty and Mr.Gautam Roy focused on the syllabi of Mathematics and Mechanical Engineering respectively. It was followed with presentations from Mr.Sudhanshu Sarkar, Mr.Surajit Bari & Mr.Kaushik Sarkar and they highlighted the importance of Basic Electrical & Basic Electronics subjects to all the future engineers.



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 Engineering, Dr.Leena Sarkar Bhaduri-English, Ms.Dipu Mistri-Basic Electrical, were the speakers from respective departments. Mr.Soumen Pal gave his lecture on Basic Electronics and Dr.Kunal Ghosh highlighted on Introduction to computer. All the resource people 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 anti-ragging 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 Mukherjee, alumni of the college who is presently a successful entrepreneur at Universal Sales. The third day of Induction program 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 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. 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 Manage 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 Limited. 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 to come forward to participate in the cultural activities and add vigour to the event.



Day-VI 6th August: The institute invited the guardians of all the 1st 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.



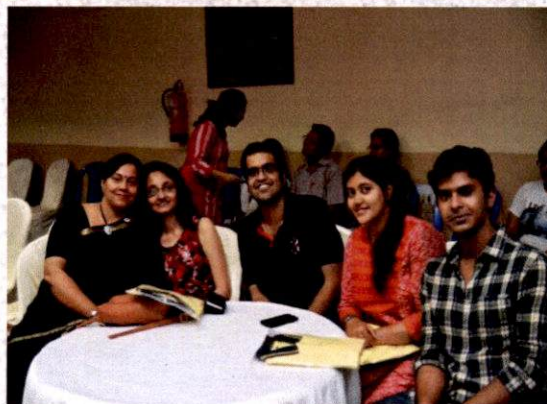
MOU

1	TECH MAHINDRA	The Principal technical and research areas of collaboration between Tech Mahindra and NIT are around contemporary technology areas.	20/04/2017
2	INFOSYS	To enriching the technical education process and to jointly work for enhancing the quality of education imparted to students, faculty and management of selected colleges of the University related to the field of Information Technology.	28/02/2017
3	RELIANCE JIO INFORCOMM LIMITED	Institute will offer the course program developed by Reliance to students.	29/12/2016
4	ASPIRE DISRUPTIVE SKILL FOUNDATION	In capacity development projects and knowledge sharing for unemployed youth, employees, vocational skill development programs, education projects, Content and curriculum development, CSR interventions, Placement Services and other assignments mutually agreed upon from time to time.	15/11/2016



Alumni Report - 2016

It was again a trip down the memory lane as one hundred forty-two Nit-ians from different batches of the institute assembled to revive the good old memories of their college days. *Nostalgia 2k16*, the Alumni meet of **Narula Institute of Technology** witnessed the emotional bonding of the alumni, present students and the faculty & staff members.



The evening of **22nd October** was lined up with the AGM followed by series of cultural performance by the Nit-ians to raise the spirit of nostalgia. A large number of Alumni spoke about their college life and shared many incidents which brought back live memories. The sumptuous dinner added flavour to the happy evening.



INTERNATIONAL RELATIONS

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, **49** students from different branches were selected through a tough screening process, to represent the JIS Group. The selected students were accompanied by two responsible faculty members from the 2nd to 15th of Feb 2017

The students belonged to various institutions under the JIS Group, namely:

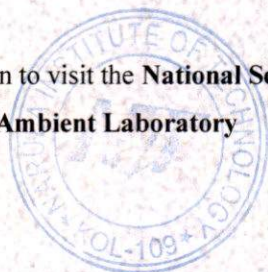
- 1 **JIS COLLEGE OF ENGINEERING**, Kalyani.
- 2 **NARULA INSTITUTE OF TECHNOLOGY**, Agarpara.
- 3 **GURU NANAK INSTITUTE OF TECHNOLOGY**, Sodepur.
- 4 **DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE**,
Dumdum.



TRAINING EXPLORATION DURING BANGKOK VISIT

1. **Smart Gadgets for Smart City** by Mr. SAKSIN CHONG LEE. The core aspects of the lecture were based on the advanced new technologies of the world.
2. **Nanotechnology** by Dr. LOUIS HORNYAK. The key points of this topic was how nanotechnology is prevalent in nature. He also discussed various applications and future use.
3. Dr. SANIT ARUNPLOD explained the various existing models of **UAV Unmanned Aerial Vehicle**. The highlight of this session was that, students were allowed to fly drone Phantom.
4. A technical session on **Machine Learning and Computer Vision** delivered by Dr. MATHEW DAILEY.
5. **Augmented Reality (AR)**, a live direct or indirect view of a physical, real-world environment whose elements are augmented was the topic of discussion.
6. ERIK L.J. BOHEZ spoke on the topic **Recent Innovations in Food Packaging**.
7. Dr. V Rajesh Choudhary spoke on the topic **Introduction to GNSS Technology**. In this short technical session, he discussed about the basic forms of navigation. The various parameters of GNSS were also thoroughly discussed.
8. A classroom session on the topic **“Asian Disaster Preparedness Centre”**. The session helped the students to understand the various issues related to environmental disasters as well as provoked their thoughts about the preventative measures to tackle with them.
9. **“Ubiquitous Computing and location based Services”**. The speaker was Dr. Sarawut. Students were very impressed with his friendly teaching. They came to know about what is ubiquitous computing, its different components, augmented reality and virtual reality.
10. Dr. A.M Harsha explained to us the very interesting topic of **“Robotics in Healthcare”**. He explained to us the application of robotics in the field of surgery, hospital industry, nursing, elderly care, healthcare, etc. This was also accompanied with the glimpses of minimal invasive surgery, image guided surgery, intelligent estimation of human arm inertia and gravity.
11. There was also a session on **THE ART OF LIVING** which was presided by Prof. V Rajesh Choudhary. The session made the students reflect on their lives so far. It taught the students the art of loving one self and believing in the existence of God.

Apart from various training and seminar sessions students were also taken to visit the **National Science Museum**, a visit to the **Safari World**, chance to visit the **Energy Park, Ambient Laboratory**



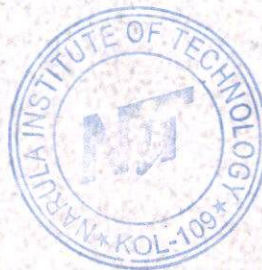
(Environmental Engineering) and the **Nanotechnology lab**. They also visited the *Bangkok University* and a shopper's paradise called **THE MBK MALL** and Historical venue Ayutthaya, full name **Phra Nakhon Si Ayutthaya**.

Visit to Bangkok University.....



The student's also organized a Cultural Night at the end of this Winter Educational Camp.

It was a gala night where the students were able to showcase their talents and proved that education is not limited to the pages of books. In a nutshell **“IT WAS NOT JUST AN EDUCATIONAL CAMP, IT WAS A BONDING TO BE CHERISHED FOREVER!**
Overall it was a holistic experience.

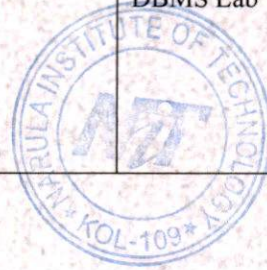


Chapter 4

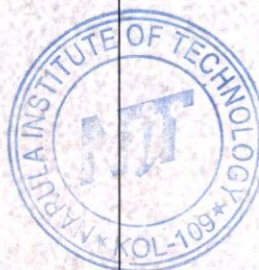
LABS

DEPARTMENTAL LAB DETAILS

Dept Name	Lab Name	Name Of Equipements/ Software	Brief Description
CSE	316K	<ol style="list-style-type: none"> 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 1 CISCO Catalyst 2950 Network Switch. 	Programming Lab
	316L	<ol style="list-style-type: none"> 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
	316O	<ol style="list-style-type: none"> 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 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



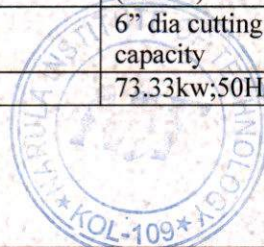
		DVD RW,15.6" Monitor 2) HCL Computer Set-3Nos Intel core2 Duo 2.93Hz G41 Chipset MB 250 GB SATA HDD 15.6" Monitor 3) Edge Switch-1 No Cisco Make[Catalyst2950] Software 1) C /C++ Compiler 2) Oracle 9i 3) Jdk	
	316H	Computer Set-33 nos. 1) Wipro Computer Set -1 Nos CPU E7500 Intel Core 2 Duo 2.93 Hz G41 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	Programming Lab
	316R	1) HCL Computer set (Desktop PC): 18 nos <u>Processor:</u> AMD ALTHMONG 3800 plus processor <u>Memory:</u> 2 GB RAM <u>Chipset:</u> 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 port NET GEAR 24 port ZYXEL 1 VALRACK 2 patch panel Structured cabin 3) I/O Box: 34 nos D-Link DCEIOSMxxxxxx	M. Tech Lab



		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 AQUSITION CARDS. FURTHER DATA ANALYSIS CAN BE PERFORMED USING NI LABVIEW SOFTWARE.
EIE	SENSORS AND TRANSDUCERS LAB EI592	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

		<p>LVTD</p> <p>4.DIGITAL STORAGE OSCILLOSCOPE, MULTIMETERS, FUNCTION GENERATORS</p>	<p>OF ELECTRONICS AND INSTRUMENTATION DEPARTMENT. THE LABORATORY IS DESIGNED ON THE CONCEPT OF VIRTUAL INSTRUMENTATION. MEASUREMENT AND CALIBRATION OF VARIOUS SMART SENSORS WITH THEIR REQUIRED COMPLETE SETUP ARE PERFORMED AND THE NATIONAL INSTRUMENT DATA ACQUISITION CARDS ARE INTERFACED WITH PERSONAL COMPUTERS. DATA ANALYSIS IS PERFORMED BY LABVIEW SOFTWARE IS INSTALLED IN THE PERSONAL COMPUTERS.</p>
EIE	<p>MICROPROCESSORS AND MICROCONTROLLER LAB</p> <p>(EI 492,EI692)</p>	<p>1. MICROPROCESSORS: 8085, 8086 WITH PERIPHERALS LIKE SERVO MOTORS, STEPPER MOTORS, SEVEN SEGMENT DISPLAYS</p> <p>2. MICROCONTROLLERS: 8051 WITH PERIPHERALS LIKE</p>	<p>LED MODULE, 7-SEGMENT DISPLAY MODULE, STEPPER MOTOR & SERVO MOTOR</p>

		SERVO MOTORS,STEPPER MOTORS,SEVEN SEGMENT DISPLAYS 7. PERSONAL COMPUTERS	MODULE ETC EXPERIMENT CAN ALSO BE PERFORMED ON MICROCONTROLLERS (8051) WHICH ARE INTERFACED WITH PERIPHERALS LIKE LED MODULE, 7-SEGMENT DISPLAY MODULE, STEPPER MOTOR & SERVO MOTOR MODULE ETC. IN THIS LABORATORY SEVERAL MICROCONTROLLER BASED PROJECTS ARE DESIGNED AND IMPLEMENTED
ME	WORKSHOP	Centre Lathe	4'-6" Bed length , Semi Norton type Centre Lathe. High precision semi automatic lathe.
		Drill Machine	25 mm Drilling Capacity
		Radial Drill Machine	25 mm capacity; Geared
		Shaping Machine	12" stroke length; V- belt power transmission, 1.5 HP
		Universal Milling Machine	U.M.M having longitudinal feed of table automatic (30" 7")
		Power saw	6" dia cutting capacity
		Bench Grinding	73.33kw;50HZ;1.4



		Amps
	Arc Welding Setup	350A; 40-60V
	Spot welding setup	Resistance Welding
	MIG welding setup	MIG 250

Dept Name	Lab Name	Name Of Equipements/Software	Brief Description
ME	MANUFACTURING PROCESS I	Sand Rammer	Preparation of Moulding Sand Kelsons
		Compression Machine	Compressibility test of moulding Sand Kelsons
		Permeability test	Permeability test of Moulding Sand Versatile Equipment
	IC ENGINE	Bomb Calorimeter	Capacity of bomb calorimeter-650cc,working pressure-200atm.
		Multicylinder Petrol Engine	ISUZU make, four stroke,four cylinder automotive petrol engine developing 10 BHP at 2000 rpm.
		Catalytic Converter	Ribbed body OEM heat shield catalytic converter with honey comb catalyst.
		MPFI system	Self started MPFI engine system with ECM box circuit.
		Electric Dynamometer	Type AV1, Bore: 87.5 mm, Stroke: 110 mm, R.P.M: 1500, BHP: 5, Lub oil Capacity: 3.7 ltr
		Valve timing diagram Study apparatus	
	REFRIGERATION & AIR-CONDITIONING	Capacity of bomb calorimeter-650cc,working pressure-200atm.	Finned tube air cooled condenser with fan & thermostatic expansion valve, refrigerant –R134a.
		ISUZU make, four stroke,four cylinder automotive petrol engine developing 10 BHP at	43 Litrs, forced convection type with semi conductor MS & fibre cooler.

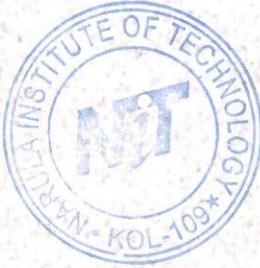
		2000 rpm.	
		Ribbed body OEM heat shield catalytic converter with honey comb catalyst.	Compressor- using refrigerant R-134a, Finned tube-200x200mm.
ME	FLUID MECHANICS LAB	Determination of Hydraulic co efficient	Dia 10mm orifice Measuring tank 0.5*0.4*0.3mm
		Calibration of orifice and venturimeter	Venturimeter: Inlet dia 20mm, throat 10mm Orifice 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

HEAT TRANSFER			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
		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

	ADVANCE MANUFACTURING	6 Axis Robot	Axis 6 Nos Link 1 300 mm Link 2 300 mm Timing belt drive Proximity Switch 50kg 500mm/min 1kg
	MATERIAL TESTING LAB	Universal testing machine with accessories	Loading unit with 1 jaw set for the range 10-25 dia 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 Machine	For rods Capacity 50 Kg meter, Model PMT 9d Loading unit with Gear box
		Closely Coiled Helical Spring testing Machine	Capacity 200 kg manually operated 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)
		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-Stroke, SV, Air cooled 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 brake	Determination of BP, IP and FP at different load 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 petrol 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 lab. 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 MHZ..Dual Trace Function Generator. 1 MHZ. Power Supply.(0 --- 30V, +12 -0 -- -12v. +5volt). Multimeter. (0 ---20M ohm, 0-1000 DC Volt, 0--700A.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


		<p>channel(0-30V), 3A with maximum current control facility,1 channel fixed 5V, 3A Cathode Ray oscilloscope 2-Channel, 30MHz.</p> <p>Measuring instruments like advanced digital multimeter, LCR meter etc.</p> <p>Facilities of soldering and disordering, and other testing equipments like DSO, Power meter etc are there which are mainly used for project and some innovative experiments.</p> <p>Digital Storage Oscilloscope (100 MHz)</p>	<p>this lab is about 1250 square feet. According to present curriculum B-Tech (ECE) 4th Semester Students perform experiments on Analog Electronic Circuits Laboratory</p>
	Analog Communication Laboratory	<p>Signal Generator (Direct Digital Synthesis Signal Generator), 3MHz, 1 Channel, Output Voltage $\pm 20V_{pp}$ in 50Ω Load.</p> <p>10MHz – Modulation Function-Pulse Generator, Output Voltage $\pm 20V_{pp}$ in 50Ω Load.</p> <p>Cathode Ray Oscilloscope (CRO), 100MHz, 2 Channels, 4 Trace</p>	<p>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 2nd 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.</p> 

		<p>Cathode Ray Oscilloscope (CRO), 50MHz, 2 Channels, 4 Trace</p> <p>Digital Storage Oscilloscope (DSO), 50MHz, 2 Channels, 4 Trace, 250MSa/s Real-Time and 25GSa/s Equivalent-Time Sampling</p> <p>Digital Storage Oscilloscope (DSO), 100MHz, 2 Channels, 4 Trace, Real-Time Sample Rate 1.0SG/s</p> <p>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 Tracking Generator : 0.15MHz to 1050MHz.</p> <p>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 - ± 15 V, 1 A adjustable by means of coarse & fine</p>	
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		<p>controls</p> <p>Major Equipment:</p> <p>Digital Storage Oscilloscope (DSO), 50MHz, 2 Channels, 4 Trace, 250MSa/s Real-Time and 25GSa/s Equivalent-Time Sampling</p> <p>Digital Storage Oscilloscope (DSO), 100MHz, 2 Channels, 4 Trace, Real-Time Sample Rate 1.0SG/s</p> <p>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 Tracking Generator : 0.15MHz to 1050MHz.</p>	
	Microprocessor and microcontroller Lab	<p>8085 Microprocessor Trainer Kit. Technology NMOS, Frequency, 3MHz.</p> <p>8051 Microcontroller Kit, 12MHz, 32bit</p> <p>Seven Segment Display</p>	<p>This lab is used for ODD Semester EE 3rd Year and ECE 3rd Year its Approximation Area is 1800 sq. ft . and Location at 2nd floor Room no – 311. Generally we are Conducting the Lab,Average of student per Session is 30 nos. and Experimental</p>

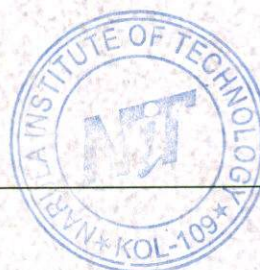
		<p>interface With Microprocessor.</p> <p>DC Motor Interface VMC 8501</p> <p>StepperMotor Interface VMC 8501</p> <p>Hex Keyboard Interface Normal</p> <p>Switch LED Buzzer Interface.</p> <p>C.R.O 25MHz, and 50MHz 4 trace, 2-ch oscilloscope</p> <p>Function generator 1 MHz , mplitude with - 20db attenuation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

		<p>Trace, 250MSa/s Real-Time and 25GSa/s Equivalent-Time Sampling</p> <p>Digital Storage Oscilloscope (DSO), 100MHz, 2 Channels, 4 Trace, Real-Time Sample Rate 1.0SG/s</p> <p>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 Tracking Generator : 0.15MHz to 1050MHz.</p>	<p>the lab is 1250sq ft, Location of the lab is 2nd Floor and Room No-310B</p>
	<p>Electromagnetic Theory and Transmission Lines Laboratory</p>	<p>Microwave Horn Antenna Test Bench, X Band.</p> <p>Klystron based Microwave Wave guide test bench (Accessories:- Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount, VSWR meter and BNC</p>	<p>The laboratory located in the 2nd floor of the main building and housed in the room No. 306. The size of the laboratory is approximately 25x35 sq ft</p> 

		<p>to BNC cable). X Band.</p> <p>Gunn Based Microwave Wave guide test bench</p> <p>(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.</p> <p>Klystron based Microwave Test Bench for Klystron Characteristic(Accessories:- 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.</p> <p>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.</p> <p>Microwave test Bench for Calibration of X-tal</p>	
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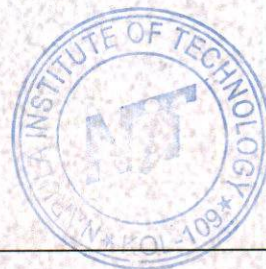


		<p>Detector(Accessories:- Klystron Power supply, Klystron Mount, Klystron Tube, Circulator, Frequency Meter, Attenuator, Slotted Section with Probe, Detector mount, VSWR meter and BNC to BNC cable).X Band.</p> <p>Microwave test Bench for Measurement of Coupling Co- efficient(Accessories:- Klystron Power 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.</p> <p>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.</p> <p>Microwave test Bench for Measurement of</p>	
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		<p>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.</p> <p>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.</p> <p>Spectrum Analyzer with Tracking Generator. 150Khz-1000Mhz</p> <p>Power Meter, X Band.</p> <p>Power Sensor,X Band.</p>	
	PCB Design Laboratory	<p>Graphics & Photo cure – 02 PCB curving machine</p> <p>Photo Di-pi-coating</p>	<p>PCB Design laboratory is situated 2nd floor; room no. 313.Geometric area of this lab is about 900 square feet.</p>

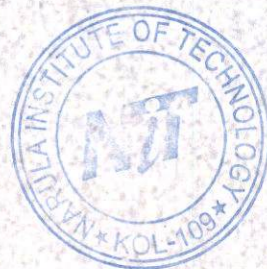
		Machine Proto-UV Double sided UV exposure with suction motor Proto Dye-Developer Proto Drilling 3000 Proto-ETCH PCB etching Machine Micro plate 1012 (4 parts) Artwork Light Table Dry Film Laminator (LAM-1200) Ammonical Etching Machine PCB Searing Machine RTM-10 Roller timing Machine Pro-Developer Stripper	
	Project Lab	Function generator-(Scientech) Variable Power supply: 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 technical staff of the department. Digital multimeters (The general objective of the project lab is to apply the theoretical knowledge to solve the real life problems. It is also a pathway to enhance for employment and self-employment potential of graduates and enhance innovativeness.



		Mastech-M3900) Oscilloscope Cathode Ray Oscilloscope. (25MHz, 30 MHz, scientech) Digital Storage Oscilloscope. (100MHz, scientech)	
CA	316P	27 Acer Desktop G630 with 12.5" TFT Intel Pentium Dual Core G630, RAM - 2GB HDD 500 GB SATA 7200 rpm, standark keyboard, Mouse out 12.5" TFT 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	
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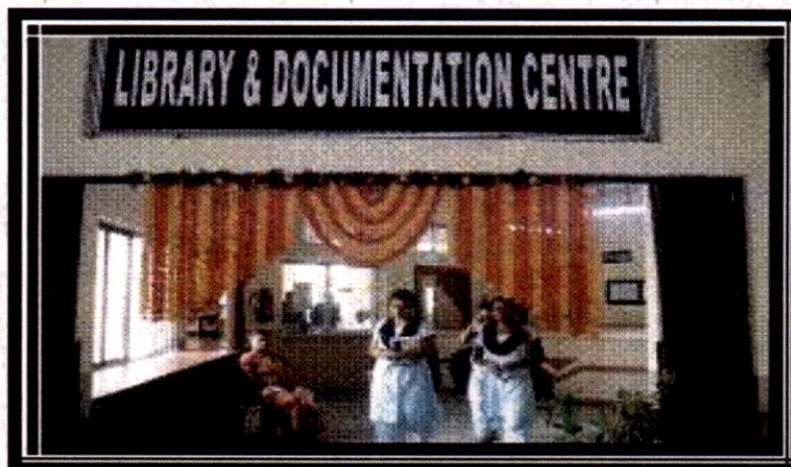


		Keyboard, HCL Optical Scroll Mouse, 15.6" TFT monitor 24 INTEL Core 3rd Generation/ 4GB RAM / 500 GB HDD/ USB K/B/USB Mouse/18.5" DELL LED Wide Monitor; DELL OPTIPLEX 3020;	
CE	Concrete Laboratory	Compression testing machine Concrete mixer machine Motor vibrator Smith Rebound Hammer.	The main focus of 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.
	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 vernier 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.
English	Language lab 1	CACM ISIL LAB 40 User Consoles +1 teacher Console PA system	Lab designed by IIT KGP in 2004 Upgraded various times
	Language Lab 2	ODELL DIGITAL LANGUAGE LAB 40 User Consoles +1 teacher Console PA system	Designed by Orell



Library & Documentation Centre



Mission, Vision & Policy

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

Goal

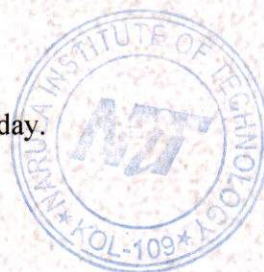
The goal of the Library & Documentation Centre of the Institute to create and sustain an information environment that supports the educational and research needs and enables learning and advancement of knowledge of the Institution community.

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.



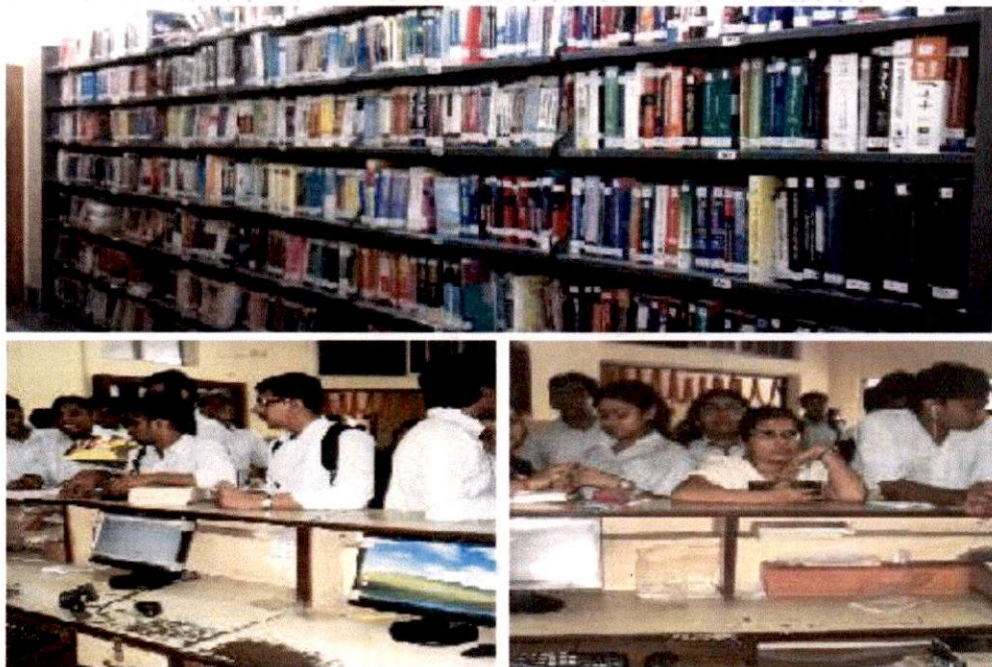
The computing & e-mail facilities are available in the library reading room with 10 computers connected with OPAC.

Library Floor Area

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

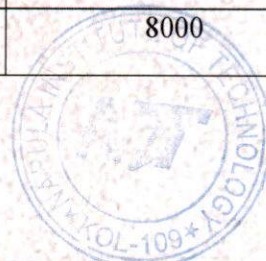
Room No.	Allotted For	Area(in m2)
211	Stack room	416
212-A	Librarian's Office; Processing Section	85
212-B	Store room for Book Bank	75
213	Reading room	254
	Circulation Counter	120
208	Stack room	73.5
Total Area		1023.5





Library Collection

Stream	Books	
	Title	Volume
BS&HU	1070	12320
CA	402	4137
CSE	629	9997
CIVIL	528	5720
EIE	522	2851
ECE	643	10391
EE	691	10403
IT	531	8000



ME	398	2388
BA	2080	11738
Total	7494	77945

Year	Books	
	Title	Volume
2015-2016	7251	75550
2016-2017	7494	77945

Annual Addition of Books

Year	Books	
	Title	Volume
2016-2017	243	2395

Library Budget

Year	Books (Rs in Lakhs)	Magazines/Journals (Hard copy) (Rs in Lakhs)	Magazines/Journals (Soft copy) (Rs in Lakhs)	Misc. Contents (Rs in Lakhs)
2016-2017	7.77		12,86,000 (From TEQIP)	1.00

Library Services

1. Circulation
2. Book Bank
3. Internet facility (WiFi)
4. CD-ROM access
5. Print Journals
6. E-journals
7. NPTEL videos & lectures
8. Online Public Access Catalogue
9. Repository of question papers (BTech & GATE)
10. Reprography
11. E-books facility
12. Reading room facility
13. Current Awareness Services
14. Departmental Libraries

Library services beyond curricula

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.

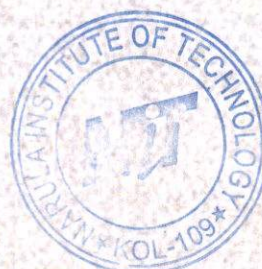


Digital Library

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)



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

NAME OF HOSTEL	ADDRESS	GIRLS / BOYS NO OF SEATS	NAME OF WARDEN AND CONTACT INFO	FEE STRUCTURE
BOY'S HOSTEL 1 / NIT	46 Nilgunj Road, Kol109	85	Swapan Mahato 8159817157	@RS 33000 PER SEMESTER
BOY'S HOSTEL 2 / JISU	5no Railgate, Paschimpalli, Agarpara,Kol 109	26	Rajbahadur Chetri 9836983065	
BOY'S HOSTEL 3 /NIT	32 DP Nagar Sripally, Belgharia, Kol 56	13	Raju Baigari 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
GIRL'SH OSTEL4/ JISU	Manasa Appts, Dp Nagar, Belgharia, Kol56	18	Pranati Mishra 9330522930
GIRL'SH OSTEL5/ JISU	Tarapukur, Paschimpally, Agarpara ,Kol109	11	Pranati Mishra 9330522930



ADMISSION CRITERIA

- 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

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

MESS AND CANTEEN FACILITIES

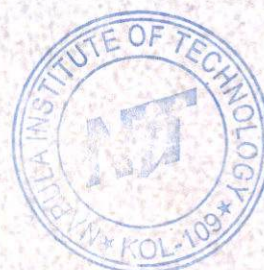
Mess facility is an integral part of the campus which provides nutritious homely food to all hostellers, day scholars, faculty & staff members and visitors. It provides 4 meals a day. Quality food is prepared under strict hygienic conditions. The food is served in the dining area keeping all the sensitivities 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 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 & Telecommunication 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 at department of COE. College vehicles were used for delivery and collection of answer scripts.

Scrutinizers were appointed from internal faculty members to scrutinize all answer script packets. All scrutiny was carried out inside the 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 examination division

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

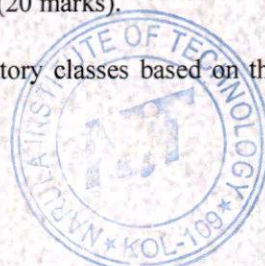
Marks foils in triplicate for each subject was filled up and signed by the internal faculty for internal marks and submitted to the department of COE.

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 2016-17		
Description	ODD Semester	EVEN Semester
Number of Answer scripts	14795	14506
Number of Evaluators (External)	60	59
Number of Head Examiners (Internal)	30	30

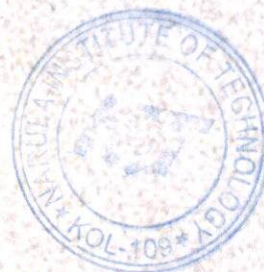
Result Publication

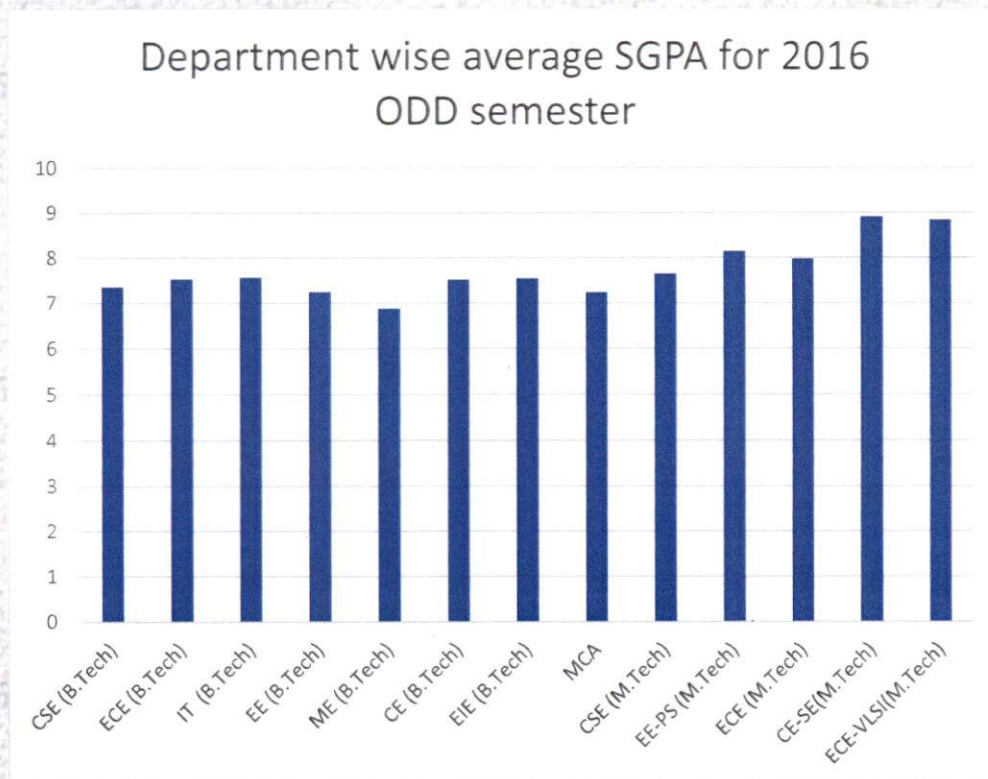
Two copies of marks foils were handed over to an external agency for data entry and result processing. After data entry, these marks foils are returned to department of COE. After result processing, TR sheets were sent by the external agency vide email to COE. The result from the TR sheets were verified 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

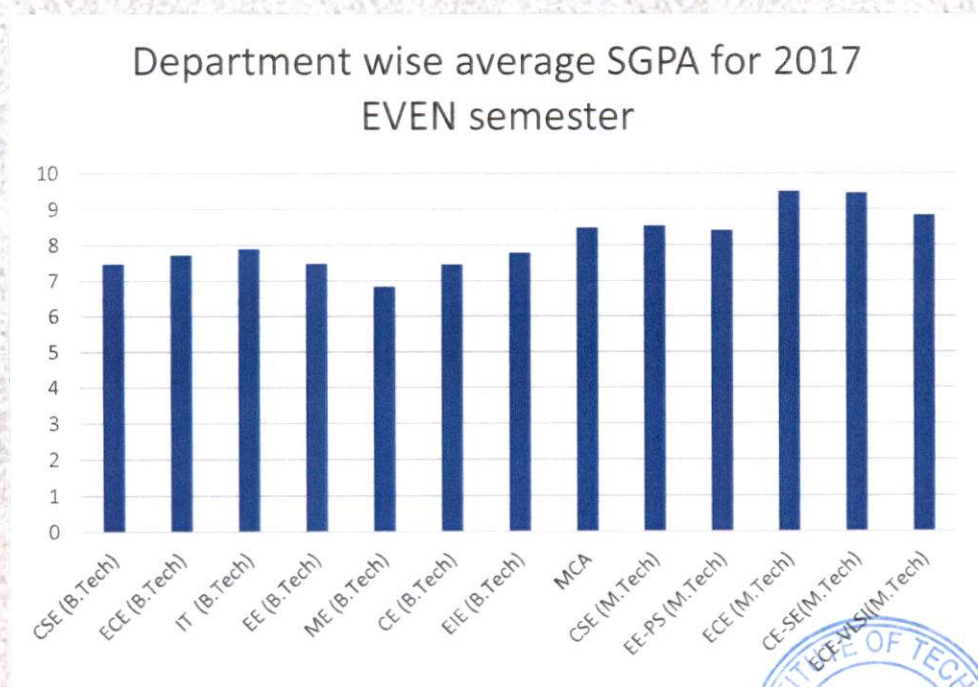
Department wise SGPA analysis of ODD and EVEN semester is presented here.

The average SGPA of the college for odd semester 2016 is 7.73.





The average SGPA of the college for even semester 2017 is 8.15



Average Pass percentage of final year students:

Student Appeared	Student Passed	Pass Percentage
705	699	99.15%

Grievances Reported by Students

Answer Script Scrutiny by Students

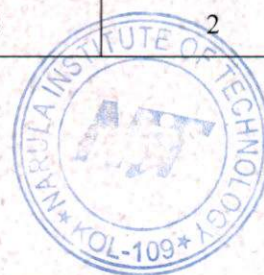
Notices inviting application for post-publication scrutiny (PPS) from students were issued within 7 days of publication of result. Students not satisfied with the grades, could apply for scrutiny of answer script of specific subjects by filling up a prescribed format and submitting the same within a time window specified in the notice. In presence of the faculty who scrutinized the answer scripts after evaluation, students were permitted to scrutinize an answer script. The details regarding students who submitted PPS applications in the academic year 2016-17 are given below.

Description of Parameter	ODD Semester	EVEN Semester
Number of Answer Scripts involved in PPS Applications submitted by students	3	5
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 2016-17 are given below.

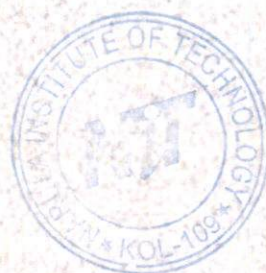
Description of Parameter	ODD Semester	EVEN Semester
Number of Answer Scripts involved in Review Applications submitted by students	8	5
Number of Answer Scripts where awarded marks changed after Re-evaluation	3	2



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. Internal marks were entered in the examination portal from the department using login IDs.
4. Result Publication



Chapter 6

Faculty Development

Seminar / Workshop attended (Department wise)

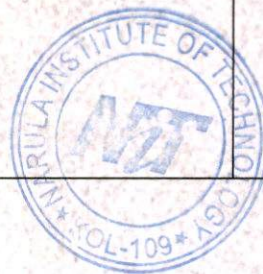
Development Programmes attended by faculty members in 2016:

Department: ECE

Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
Sangita Roy	18th IIRS Outreach Program	18th IIRS Outreach Program	IIRS, Govt. Of India, Deharadun	IIRS, Govt. Of India, Deharadun	22nd August-18th November 2016
Sangita Roy	Seminar	IEEE One Day Seminar For Technical Lecture Series With Industry Participation Seminar Organized Jointly With Akaut, Wb And Financially Sponsored From Teqip-Ii.	IEEE Comsoc	IEEE Comsoc, Kolkata Chapter	15th November 2016
Abhijit Ghosh, Pushpak Pain	Workshop	Efficient Antennas And Guided Systems	Dept. of EE & ECE, IIT, Kharagpur	IIT, Kharagpur	Two Week (20/06/2016 To 02/07/2016)
Abhijit Ghosh	Workshop	Microwave Components, Circuits And Antennas: Design And Measurements	Dept Of Electronics & Telecomm. Engg	Shri Sant Gajanan Maharaj College of Engineering, Shegaon	One Week (13/12/2016 To 17/12/2016)
Piyu Sarcar,	Workshop	Workshop on "Fundamentals	ECE Dept Narula Institute Of	Narula Institute Of Technology	18/7/2016 – 22/7/2016

Pranab Hazra, Sandhya Pattanayak		of Electronics & Communication Systems, 2016 (WFECS, 2KH)"	Technology		
Saradindu Panda, Swati Barui, Sangita Roy, Arpita Barman Santra, Piyu Sarcar, Abhijit Ghosh, Surajit Bari, Sandhya Pattanayak, Rimpi Datta, Arnima Das, Kaushik Sarkar, Moupali Roy, Soumen Pal	FDP	FDP on "Modern Trends in Communication & Circuit Design, 2016 (MTCCD, 2KH)"	Department of ECE, Narula Institute of Technology, Kolkata	Narula Institute of Technology, Kolkata	One Week (17/10/2016 to 21/10/2016)
Swati Barui, Sangita Roy, Arpita Barman Santra, Rimpi Datta, Arnima Das, Moupali	FDP	FDP on "Research Methodology and Latex (RML-2016)"	Department of CSE, Narula Institute of Technology, Kolkata	Narula Institute of Technology, Kolkata	One Week (24/10/2016 to 28/10/2016)

Roy					
Dr. Saradindu Panda, Kaushik Sarkar, Moupali Roy, Pranab Hazra, Rimpi Dutta, Soumen Pal, Arpita Barman Santra, Piyu Sarcar, Abhijit Ghosh, Pushpak Pain, Surajit Bari, Rimpi Datta, Arnima Das, Kaushik Sarkar	Seminar	Industry Institute Interaction with Mr. Sounak Dey, Scientist, Innovation Lab (Kolkata), Tata Consultancy Services Ltd. Sensor Modelling, Ontology, Model Driven Development, Semantic Workflow Management	Department of ECE, Narula Institute of Technology, Kolkata	Narula Institute of Technology, Kolkata	One Day (8/6/2016)
Abhijit Ghosh, Pushpak Pain, Surajit Bari, Sandhya Pattanayak, Pranab Hazra, Kaushik Sarkar, Soumen Pal	Seminar	Industrial Seminar by a scientist of TCS Innovation Lab	Department of ECE, Narula Institute of Technology, Kolkata	Narula Institute of Technology, Kolkata	One Day (25/10/2016)



Abhijit Ghosh	Online Course	NPTEL Online course on "Antenna"	IIT, Bombay	Online, Narula Institute of Technology, Kolkata	Jan 23 rd to April 24 2017 (12 Week)
Sandhya Pattanayak	Online Course	NPTEL Online course on "Introduction to Coding"	IIT, Kanpur	Online, Narula Institute of Technology, Kolkata	Jan 23 rd to March 26 2017 (8 Week)

Development Programmes attended by faculty members in 2017:

Department of ECE

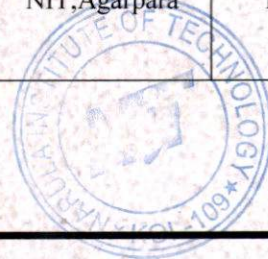
Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
Saradindu Panda, Pushpak Pain, Surajit Bari, Sandhya Pattanayak, Rimpi Datta, Arnima Das, Pranab Hazra, Swati Barui, Sangita Roy, Arpita Barman Santra, Piyu Sarcar, Kaushik Sarkar, Moupali Roy, Soumen Pal	Workshop	Workshop on PCB Layout Design	Department of ECE, Narula Institute of Technology, Kolkata	Narula Institute of Technology, Kolkata	One week (14/03/2017 to 18/03/2017)

Department of EE

Sl No	Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
1	Dipu Mistry	FDP	Quality Assurance Parameters Of NBA	Internal Quality Assurance Cell (IQAC) NIT	NIT, Agartara	06.03.2017 to 10.03.2017 (1 Week)
		FDP & SDP	Recent Advancement In Computer Aided Design With AUTOCAD	EE, NIT, TEQIP	NIT, Agartara	31.01.2017-11.02.2017

2	Kamalika Banerjee					
		FDP	Recent Advancement In Computer Aided Design With AUTOCAD	EE, NIT, TEQIP	NIT, Agarpa	31.01.2017-11.02.2017
3	Subhra Mukherjee					
		FDP	Quality Assurance Parameters Of NBA	Internal Quality Assurance Cell (IQAC) NIT	NIT, Agarpa	06.03.2017 to 10.03.2017 (1 Week)
		FDP	Sensors And Transducers	NITTTR	NITTTR, Saltlake	06.02.2017-17.02.2017
		FDP	Recent Advancement In Computer Aided Design With AUTOCAD	EE, NIT, TEQIP	NIT, Agarpa	31.01.2017-11.02.2017
4	Pratyusha Biswas Deb					
		FDP	Workshop On PCB Layout Design	ECE Department	NIT, Agarpa	14th -18th March 2017
		FDP	Quality Assurance Parameters Of NBA	Internal Quality Assurance Cell (IQAC) NIT	NIT, Agarpa	06.03.2017 to 10.03.2017 (1 Week)
		FDP	Non Conventional Generation	NITTTR	NITTTR, Saltlake	20.02.2017-24.02.2017
		FDP & SDP	Recent Advancement In Computer Aided Design With Autocad	EE, NIT, TEQIP	NIT, Agarpa	31.01.2017-11.02.2017
		One day seminar	Seminar On Modern Trends In Power Electronics Converter	EE, NIT, TEQIP	NIT, Agarpa	17.03.2017
		One day seminar	National Seminar On Modern Trends On Non-Conventional	EE, NIT, TEQIP	NIT, Agarpa	15.03.17

			Energy Sources.			
		One day seminar	One Day Seminar On Strategies For Writing Good Research Papers	CSE dept, NIT	NIT,Agarpara	27.03.17
		Academia Conclave	Industry Academia Conclave By Makaut	Milan mela prangan	MAKAUT	27-29 th march 2017
5	Sudhangshu Sarkar	FDP	Recent Advancement In Computer Aided Design With Auto-Cad	EE Depart	Narula Institute of Technology	31-01-2017 to 11/2/2017
		WORKSHOP	Workshop On PPCB Layout Design	ECE Department	Narula Institute of Technology	14-03-2017 to 18-02-2017
6	Arkendu Mitra					
		FDP	Workshop On Pcb Layout Design	ECE Department	NIT,Agarpara	14th -18th March 2017
		FDP	Quality Assurance Parameters of NBA	Internal Quality Assurance Cell (IQAC) NIT	NIT, Agarpara	06.03.2017 to 10.03.2017 (1 Week)
		FDP	Recent Advancement In Computer Aided Design With Autocad	EE, NIT, TEQIP	NIT, Agarpara	31.01.2017- 11.02.2017
		One day seminar	Seminar On Mordern Trandes In Power Electronics Converter	EE, NIT, TEQIP	NIT,Agarpara	17.03.2017
		One day seminar	National Seminar On Modern Trends On Non-	EE, NIT, TEQIP	NIT,Agarpara	15.03.17



			Conventional Energy Sources.			
7	Pallav Dutta	FDP	Workshop on PCB layout design	ECE Department	NIT,Agarpara	14th -18th March 2017
		FDP	Quality Assurance Parameters of NBA	Internal Quality Assurance Cell (IQAC) NIT	NIT,Agarpara	06.03.2017 to 10.03.2017 (1 Week)
		FDP & SDP	Recent advancement in computer aided design with AUTOCAD	EE, NIT, TEQIP	NIT,Agarpara	31.01.2017-11.02.2017
		one day seminar	seminar on modern trends in Power electronics converter	EE, NIT, TEQIP	NIT,Agarpara	17.03.2017
		one day seminar	National seminar on modern trends on non-conventional energy sources.	EE, NIT, TEQIP	NIT, Agarpara	15.03.17
		one day seminar	One day seminar on strategies for writing good research papers	CSE dept, NIT	NIT, Agarpara	27.03.17
		FDP & SDP	Recent advancement in computer aided design with AUTOCAD	EE, NIT, TEQIP	NIT, Agarpara	31.01.2017-11.02.2017
8	Sushovan Goswami	FDP	Data science advance analysis using statistica	CSE dept, NIT, TEQIP	NIT, Agarpara	14.03.2017-18.03.2017

	one day seminar	seminar on modern trends in Power electronics converter	EE, NIT, TEQIP	NIT, Agartpara	17.03.2017
	one day seminar	National seminar on modern trends on non-conventional energy sources.	EE, NIT, TEQIP	NIT, Agartpara	15.03.17
	one day seminar	One day seminar on strategies for writing good research papers	CSE dept, NIT	NIT, Agartpara	27.03.17

Department of EIE

Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
Dibyendu Sur	Workshop	Data workshop International Conference on Mars Aeronomy 2017	University of Colorado, Boulder, USA and European Space Agency, Noordwijk, The Netherlands	Online [original venue: LASP Space Sciences Building, Boulder, Colorado, USA]	18-19 May, 2017
	FDP	Quality Assurance Parameters of NBA	IQAC, NIT	Narula Institute of Technology	6 th to 10 th March, 2017
	Workshop	PCB Layout Design with Simulation software	ECE, NIT	Narula Institute of Technology	14th March, 2017 to 18th March, 2017
Arijita Das	FDP	Quality Assurance Parameters of NBA	IQAC, NIT	Narula Institute of Technology	6 th to 10 th March, 2017
Susmita Das	FDP	Quality Assurance Parameters of	IQAC, NIT	Narula Institute of	6 th to 10 th March, 2017

		NBA		Technology	
	Workshop	PCB Layout Design with Simulation software	ECE, NIT	Narula Institute of Technology	14th March, 2017 to 18th March, 2017
Bansari Deb Majumder	FDP	Quality Assurance Parameters of NBA	IQAC, NIT	Narula Institute of Technology	6 th to 10 th March, 2017
	FDP	Data Science and advanced analytics using Statistica	IT,NIT	Narula Institute of Technology	March 14-18 th , 2017
	Workshop	Recent Advances in Mechanical Engineering	ME,NIT	Narula Institute of Technology	24-25 th Feb, 2017
	FDP	Recent Advancements In Computer Aided Design With AutoCAD	EE,NIT	Narula Institute of Technology	31st January, 2017 to 11h February, 2017

Department of CSE

Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
Subhram Das	Workshop	International Workshop on Pattern Analysis and Applications	ISI, Kolkata	ISI, Kolkata	18-20 January, 2017
Md Ashifuddin Mondal	Seminar	Business Intelligence	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Distributed System	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Strategies for write good research Paper	Dept. of CSE	Narula Institute of Technology	One day
Chandrima Chakrabarti	Short-Term Course	TEQIP II-Sponsored Short-Term Course on "Introduction to Cryptography"	IIT Kharagpur	Mathematics Dept., IIT Kgaragpur	January 27-31, 2017
	Short-Term	19th IIRS Outreach	IIRS, ISRO	Online course	February 16

	Course as working professional	Programme on "Remote Sensing and GIS Applications in Carbon Forestry"		at Narula Institute of Technology	– March 10, 2017
Debjani Chakraborty					
	Seminar	Business Intelligence	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Distributed System	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Strategies for write good research Paper	Dept. of CSE	Narula Institute of Technology	One day
Kousik Karmakar					
	Seminar	Business Intelligence	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Distributed System	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Strategies for write good research Paper	Dept. of CSE	Narula Institute of Technology	One day
Sagarika chowdhury					
	Seminar	Business Intelligence	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Distributed System	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Strategies for write good research Paper	Dept. of CSE	Narula Institute of Technology	One day
Mousumi Saha					
	Seminar	Business Intelligence	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Distributed System	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Strategies for write good research Paper	Dept. of CSE	Narula Institute of Technology	One day
Safikureshi Mondal					
	Seminar	Business Intelligence	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Distributed System	Dept. of CSE	Narula Institute of Technology	One day

				Institute of Technology	
	Seminar	Strategies for write good research Paper	Dept. of CSE	Narula Institute of Technology	One day
Subhendu Banerjee					
	Seminar	Business Intelligence	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Distributed System	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Strategies for write good research Paper	Dept. of CSE	Narula Institute of Technology	One day
Anukul Maity					
	Seminar	Business Intelligence	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Distributed System	Dept. of CSE	Narula Institute of Technology	One day
	Seminar	Strategies for write good research Paper	Dept. of CSE	Narula Institute of Technology	One day

Department of IT

Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
Dr. B K Medya	FDP	Quality Assurance Parameters of NBA	Internal Quality Assurance Cell (IQAC) NIT	Narula Institute of Technology	06.03.2017 to 10.03.2017 (1 Week)
	FDP	Recent advancement in computer aided design with auto-cad	EE under TEQIP	Narula Institute of Technology	31-01-2017 to 11/02/2017
	WORKSHOP	WORKSHOP ON PCB LAYOUT DESIGN	ECE DEPARTMENT UNDER TEQIP	Narula Institute of Technology	14-03-2017 to 18-03-2017



Sujata Kundu	one day seminar	One day seminar on strategies for writing good research papers	CSE dept, NIT	NIT,Agarpara	27.03.17
Anirban Bhar	one day seminar	One day seminar on strategies for writing good research papers	CSE dept, NIT	NIT,Agarpara	27.03.17
	FDP	Quality Assurance Parameters of NBA	Internal Quality Assurance Cell (IQAC) NIT	NIT,Agarpara	06.03.2017 to 10.03.2017 (1 Week)
Soumya Bhattacharyya	WORKSHOP	Advancement in Mechanical Engineering	ME, NIT	NIT,Agarpara	13.03.2017 17.03.2017
Suchismita Maity	one day seminar	One day seminar on strategies for writing good research papers	CSE dept, NIT	NIT,Agarpara	27.03.17
	FDP	Quality Assurance Parameters of NBA	Internal Quality Assurance Cell (IQAC) NIT	NIT,Agarpara	06.03.2017 to 10.03.2017 (1 Week)
Shyamapriya Chowdhury	one day seminar	One day seminar on strategies for writing good research papers	CSE dept, NIT	NIT,Agarpara	27.03.17
	academia conclave	Industry academia	Milan prangan mela	MAKAUT	27-29 th march 2017

		conclave by MAKAUT			
Soumen Ghosh	one day seminar	One day seminar on strategies for writing good research papers	CSE dept, NIT	NIT,Agarpara	27.03.17
	FDP	Recent advancement in computre aided design with AUTOCAD	EE, NIT, TEQIP	NIT,Agarpara	31.01.2017- 11.02.2017
Tamasree Biswas	FDP	Workshop on PCB layout design	ECE Department	NIT,Agarpara	14th -18th March 2017
	FDP	Quality Assurance Parameters of NBA	Internal Quality Assurance Cell (IQAC) NIT	NIT,Agarpara	06.03.2017 to 10.03.2017 (1 Week)
	FDP	Recent advancement in computre aided design with AUTOCAD	EE, NIT, TEQIP	NIT,Agarpara	31.01.2017- 11.02.2017

Department: ME

Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
Dr. Amit Datta	FDP (Management Capacity Enhancement Programme)	MHRD's National Mission for Teachers and Administrators	The Indian Institute of Management, Indore	Indore, MP	One week (February 02 to 08, 2017)
	Workshop	One Day National Workshop on Recent Trends in Automation	Department of Mechanical Engineering, Narula Institute Of Technology	Narula Institute Of Technology	One day

	Workshop	Two Days National Workshop on Recent Advances in Mechanical Engineering	Department of Mechanical Engineering, Narula Institute Of Technology	Narula Institute Of Technology	2 day 24.02.17 – 25.02.17
Dr. Bikash Panja	Workshop	One Day National Workshop on Recent Trends in Automation	Department of Mechanical Engineering, Narula Institute Of Technology	Narula Institute Of Technology	One day 06.03.17
	FDP	Faculty & Staff Development Programme on “Recent Advancements in Computer Aided Design with Auto CAD”	Department of Electrical Engineering, Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	Two weeks 31.01.17 – 11.02.17
	FDP	TEQIP sponsored one week faculty development programme on Quality Assurance Parameters of NBA	IQAC, Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	One week 06.03.17 – 10.03.17
Mr. Arghya Gupta	Workshop	Two Days National Workshop on Recent Advances in Mechanical Engineering	Department of Mechanical Engineering, Narula Institute Of Technology	Narula Institute Of Technology	2 day
	FDP	Faculty & Staff Development Programme on “Recent Advancements in Computer Aided Design with Auto CAD”	Department of Electrical Engineering, Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	Two weeks
	FDP	Modern Trends	Department	Narula	One week

		in Teaching and Research Methodology	BS&HU Narula Institute of Technology, Agarpara, Kolkata	Institute Of Technology	
Mr. Ankesh Samanta	FDP	TEQIP sponsored one week faculty development programme on Quality Assurance Parameters of NBA	IQAC, Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	One week
	FDP	Faculty & Staff Development Programme on "Recent Advancements in Computer Aided Design with Auto CAD"	Department of Electrical Engineering, Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	Two weeks
Akhtarujjaman Sarkar	Workshop	Two Days National Workshop on Recent Advances in Mechanical Engineering	Department of Mechanical Engineering, Narula Institute Of Technology	Narula Institute Of Technology	2 day
	FDP	Faculty & Staff Development Programme on "Recent Advancements in Computer Aided Design with Auto CAD"	Department of Electrical Engineering, Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	Two weeks
	FDP	Modern Trends in Teaching and Research Methodology	Department BS&HU Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	One week 18.07.17 – 23.07.17

Mr. Soumojit Dasgupta	Workshop	Two Days National Workshop on Recent Advances in Mechanical Engineering	Department of Mechanical Engineering, Narula Institute Of Technology	Narula Institute Of Technology	2 day
	Workshop	One Day National Workshop on Recent Trends in Automation	Department of Mechanical Engineering, Narula Institute Of Technology	Narula Institute Of Technology	One day
	FDP	TEQIP sponsored one week faculty development programme on Quality Assurance Parameters of NBA	IQAC, Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	One week
Mr. Goutam Roy	Workshop	Two Days National Workshop on Recent Advances in Mechanical Engineering	Department of Mechanical Engineering, Narula Institute Of Technology	Narula Institute Of Technology	2 day
	FDP	Faculty & Staff Development Programme on "Recent Advancements in Computer Aided Design with Auto CAD"	Department of Electrical Engineering, Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	Two weeks
	FDP	Modern Trends in Teaching and Research Methodology	Department BS&HU Narula Institute of Technology, Agarpara, Kolkata	Narula Institute Of Technology	One week

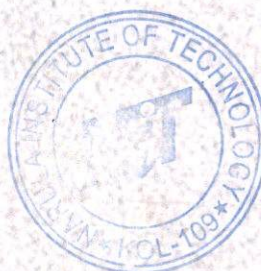
Department: CA

S. No.	Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
1	Rupa Saha	FDP	Management Capacity Enhancement Programme	IIM, Trichy	IIM, Chennai	6 th Feb 2017-10 th Feb 2017
2	Dr. Sanjay Goswami	1 week workshop	Deep Learning and Applications	Center for Development of Technical Education, IIT Kanpur, MHRD Sponsored	IIT Kanpur	12-16 January, 2017
3	Debrupa Pal	FDP	Fundamental Algorithms: Design and Analysis	IIT, KGP	IIT, KGP	9 th Feb 2017-13 th Feb 2017
4	Chitralkha Baksi	FDP	Introduction to Cryptography	IIT, KGP	IIT, KGP	27 th Jan 2017-31 st Jan 2017

Department: BS & HU

Name of the faculty	Type of the course	Name of the course	Organized by	Venue	Duration
Dr. Nikhilesh Sil	Faculty & Staff development Program	Recent Advancement in Computer aided Design with Autocad	Department of EE, Narula Institute of Technology	Narula Institute of Technology	Two week (31/1/17-11/02/17)
Dr. Dhananjay Kumar Tripathi	Workshop	Two day National workshop on Recent Advances in	Mechanical engineering Department, Narula Institute of	Narula Institute of Technology	February 24-25, 2017

		Mechanical Engineering.	Technology		
Dr. Susmita Karan	National Workshop	Recent Advances In Mechanical Engineering	Department of Mechanical Engineering	Narula Institute of Technology	24-25 February, 2017
	FDP	Quality Assurance Parameters of NBA	The Internal Quality Assurance Cell	Narula Institute of Technology	6-10 March, 2017



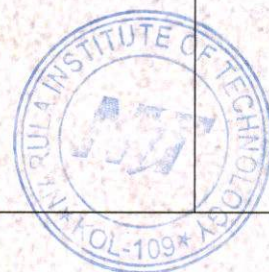
Seminar / Workshop organized (Department wise)

Seminar, Conference, Workshop Organized by the Institute (Department Wise) From July, 2016 to June, 2017					
Sl. No	Dept.	Name of Seminar	Name of Conference	Name of Workshop	Numbers
1	CA	PHP with MySQL on 09.09.2017		Java Programming & Android on 15.03.2017	Seminar = 4 Conference = Workshop = 1
				Java Programming & Android on 01.04.2017	
				Data Analytics with R Programming on 16.09.2017	
				IoT & Cyber Security on 18.01.2018	
2	ECE	Industrial Seminar on Industrial Exposure	TEQIP sponsored National Conference on "Advanced Computation on Electronics and Remote Sensing" (NCACERS-16)	Workshop on PCB Layout Design	
		Industrial Seminar on "How to prepare yourself on Technical Industry"		Short Term Course on Fundamental of Electronics	
		Industrial Seminar on "Biomedical Signal Processing"		FDP on "Modern Trends in Communication & Circuit Design, 2016 (MTCCD, 2KH)"	
		Industrial Seminar by a scientist of TCS Innovation Lab		Workshop on "Fundamentals of Electronics & Communication Systems, (WFECS, 2KH)"	26

		Industry Institute Interaction with Mr. Sounak Dey, Scientist, Innovation Lab (Kolkata), Tata Consultancy Services Ltd. Sensor Modelling, Ontology, Model Driven Development, Semantic Workflow Management			
3	CSE	1. TEQIP sponsored program on "Distributed System" 2. TEQIP sponsored program on "Business Intelligence" 2. TEQIP sponsored program on "Strategies for write good research Paper"	National conference on "Advance Computing, Communication and Devices (NCACCD 2017)"	1. One week FDP on "Modern Trends in Teaching & Research Methodology" 2. TEQIP sponsored One week program on "Research Methodology and Latex"	
4	IT	Recent Trends in IT Industry On 3 rd . November, 2016 IoT & its Deployment in Cloud: An Industry Perspective" On 15 th . February, 2017	"ICT: Current Trends and Future Perspective" on 1 st . & 2 nd . March, 2017	Business Intelligence On 21 st . October, 2016	



5	EE	<p>National Seminar on Advancement of Power Electronics in Industrial Motor Control on 27th April, 2016</p> <p>2. National Seminar on Transformer: The Backbone of Electrical Power System on 10th February, 2017</p> <p>3. National Seminar on Power System Simulation Using MATLAB on 15th February, 2017</p> <p>4. National Seminar on Modern Trends in Power Electronic Converters on 17th March, 2017</p>		<p>Faculty Development Programme on Recent Advancements in Computer Aided Design with AutoCAD from 31st January to 11th February, 2017 in collaboration with AIAT.</p>	
6	CIVIL	<p>Seminar on "Advancement of construction Engineering and problems of failures"</p> <p>Seminar on "State of the art Technology for Analysis and Design of Structures"</p> <p>"ONE DAY AWAENESS Seminar ON SUPPORT ENTREPRENEURIAL AND MANAGERIAL, DEVELOPMENT OF SMEs THROUGH INCUBATOR"</p> <p>Industry visit and Seminar to M/S Simplexco, Godrej Prakriti Project Site, (Sukhchar Girja), B. T. Road, Sodepur Near Sodepur Railway Station</p>		<p>"One day workshop on Structural Analysis and Design by STAAD PRO".</p>	



7	ME			<p>1. TEQIP Sponsored Two days National workshop on “Recent Advances in Mechanical Engineering” on 24th & 25th February, 2017.</p> <p>2. One day National Workshop on Recent Trends in Automation on 6th. March, 2017.</p>	
8	BA	3-Day Entrepreneurship Awareness Camp Under DST-NIMAT Project 2016-17		<p>1. Two day training programme on Digital Marketing has been organized by Department and IIMC Carpedium Event-2016-17</p> <p>2. One Day work shop on Financial Literacy</p> <p>3. Workshop on Financial Management a Key Role to Business Success</p> <p>4. Recent Changes in the Human Resource Management</p>	

Research & Development

International Journal publication :

Title of paper	Name of the author/s	Name of journal	ISSN number	Link to the recognition in UGC enlistment of the Journal		Is it listed in UGC Care list/Scopus/Web of Science/other, mention
				Link to website of the Journal	Link to article/paper/abstract of the article	
Condensed Matrix Descriptor for Protein Sequence Comparison.	Jayanta Pal	Analytical Mass Spectrometry And Chromatography	2332-1776	https://www.scirp.org/journal/ijamsc/	https://www.researchgate.net/publication/298727600_Condensed_Matrix_Descriptor_for_Protein_Sequence_Comparison	UGC CARE
An Efficient Framework to Identify Quality Attributes and to Provide Flexibility in Development	Anirban Bhar	Journal of Computer Science and Mobile Computing	ISSN: 2320-088X	https://www.ijcsmc.com/	https://ijrti.org/papers/IJRTI1705012.pdf	UGC CARE
An Efficient Framework to Identify Quality Attributes and to Provide Flexibility in Development	Soumya Bhattacharya	Journal of Computer Science and Mobile Computing	ISSN: 2320-088X	https://www.ijcsmc.com/	https://ijrti.org/papers/IJRTI1705012.pdf	UGC CARE
Contactless speed monitoring and displaying	Pratyusha Biswas Deb	International Research Journal of Engineering and Technology (IRJET)	e-ISSN:2395-0056 p-ISSN:2395-0073	https://www.irjet.net/	https://www.irjet.net/archives/V3/i12/IRJET-V3I12209.pdf	UGC CARE



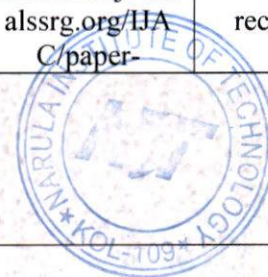
Dynamic Model Analysis of a DC Motor in MATLAB	Pratyusha Biswas Deb	International Research Journal of Engineering and Technology (IRJET)	e-ISSN:2395-0056 p-ISSN:2395-0074	https://www.irjet.net/	https://www.ijser.org/researchpaper/Dynamic-Model-Analysis-of-a-DC-Motor-in-MATLAB.pdf	UGC CARE
Use of FFT in Protein Sequence Comparison under Their Binary Representations.	Soumen Ghosh	Computational Molecular Bioscience	ISSN Online: 2165-3453	https://www.scirp.org/journal/cmb/	https://www.researchgate.net/publication/304669449_Use_of_FFT_in_Protein_Sequence_Comparison_under_Their_Binary_Representations	UGC CARE
Physico-Mechanical and Thermal properties of PVC-PEMA Full Interpenetrating Polymer Networks in relation to their Morphologies	Dr. Rupa Bhattacharyya	Advances in Polymer Science and Technology	ISSN 2277-7164	https://www.springer.com/gp/book/9789811325670	https://chesci.com/wp-content/uploads/2016/10/V3i10_3_Rupa-et-al_101-107.pdf	SPRINGER
Physico-Mechanical and Thermal properties of PVC-PEMA Full Interpenetrating Polymer Networks in relation to their Morphologies	Dr. Sumit Nandi	Advances in Polymer Science and Technology	ISSN 2277-7164	https://www.springer.com/gp/book/9789811325670	https://chesci.com/wp-content/uploads/2016/10/V3i10_3_Rupa-et-al_101-107.pdf	SPRINGER
Use of FFT in Protein Sequence Comparison under Their Binary	Jayanta Pal	Computational Molecular Bioscience	ISSN Online: 2165-3453	https://www.scirp.org/journal/cmb/	https://www.researchgate.net/publication/304669449_Use_of_FFT_in_Protein_Sequence	UGC CARE

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An Approach To Implement Data Mining In Service Oriented Methodo-Logy Towards Ame- Lioration Of Society	Mousumi Saha	Innovations In Engineering And Technology	2319-1058	http://webcache.googleusercontent.com/search?q=cache:RXQ1oWs2jvQJ:ijiet.com/wp-content/uploads/2016/02/47.pdf+&cd=2&hl=en&ct=clnk&gl=in	https://ijiet.com/wp-content/uploads/2016/02/47.pdf	SPRINGER
Influence of TiO2 in absorbing Electron beam radiation on Silicone Rubber	Dr. Sumit Nandi	SSRG Internationa l Journal of Polymer and Textile Engineering	ISSN 2394-2592	http://www.internationaljournalssrg.org/IJPT/index.html	http://www.internationaljournalssrg.org/IJPT/E/paper-details?Id=14	UGC recognized
Binding energies of atoms under Maxwellian dusty plasma environment	Dr. Tapan Kumar Mukherjee	Int. Rev. At. Mol. Phys.	ISSN: 2229-3159	https://serialsjournals.com/index.php?route=product/product&product_id=426	https://serialsjournals.com/abstract/20005_2s_dutta.pdf	SCOPUS
A comparative mathematical analysis of methane emission in India and USA	Dr. Sumit Nandi	Asian Journal of Science and Technology	ISSN 0976-3376	https://www.journalajst.com/	http://www.isca.in/IJENS/Archive/v6/i2/7.ISCA-IRJEvS-2017-001.php	UGC recognized
A comparative mathematical analysis of methane emission in India and USA	Pijush Basak	Asian Journal of Science and Technology	ISSN 0976-3376	https://www.journalajst.com/	http://www.isca.in/IJENS/Archive/v6/i2/7.ISCA-IRJEvS-2017-001.php	UGC recognized



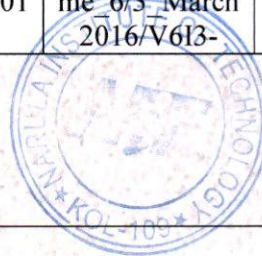
Influence of TiO ₂ in absorbing Electron beam radiation on Silicone Rubber	Dr. Rupa Bhattacharyya	SSRG International Journal of Polymer and Textile Engineering	ISSN 2394-2592	http://www.internationaljournalssrg.org/IJPTE/index.html	http://www.internationaljournalssrg.org/IJPTE/paper-details?Id=14	UGC recognized
Enzymatic Packed Bed Reactor for Biodiesel Production from JatrophaCurcas Oil	Dr. Sarbani Ganguly	Journal of Chemical, Biological and Physical Sciences	E- ISSN: 2249 – 1929	https://isindexing.com/isi/journaldetails.php?id=58	https://www.jcbsc.org/test/admin/get_filechem.php?id=511	ISI
Enzymatic Packed Bed Reactor for Biodiesel Production from JatrophaCurcas Oil	Dr. Sumit Nandi	Journal of Chemical, Biological and Physical Sciences	E- ISSN: 2249 – 1929	https://isindexing.com/isi/journaldetails.php?id=58	https://www.jcbsc.org/test/admin/get_filechem.php?id=511	ISI
A survey on modelling and structural modification of atomic systems in plasma environment	Dr. Tapan Kumar Mukherjee	Asian Journal of Physics	ISSN 0971-3093	http://demo050307.hostgator.co.in/	https://www.researchgate.net/publication/305737190_A_survey_on_modelling_and_structural_modification_of_atomic_systems_in_plasma_environment_httpasianjournalofphysicsincontent2vol-25-2016vol-25-no-10	UGC recognized
Ritz variational calculation for the singly excited states of compressed two-electron atoms	Dr. Tapan Kumar Mukherjee	Int. J. Quan. Chem.	https://onlinelibrary.wiley.com/doi/abs/10.1002/qua.25234	https://www.wiley.com/en-us/International+Journal+of+Quantum+Chemistry-p-9780471541424	https://onlinelibrary.wiley.com/doi/10.1002/qua.25234	SCOPUS

Two-electron atoms under spatially compressed Debye plasma	Dr. Tapan Kumar Mukherjee	Physics of Plasmas	https://aip.scitation.org/doi/10.1063/1.4962508	https://aip.scitation.org/doi/10.1063/1.4962508	https://aip.scitation.org/doi/10.1063/1.4962508	UGC recognized
A comparative study of enzyme efficacy for biodiesel production from Jatropha Curcas oil	Dr. Sumit Nandi	SSRG International Journal of Applied Chemistry	ISSN 2393 - 9133	https://www.jcbssc.org/	https://www.internationaljournalssrg.org/IJAC/paper-details?Id=37	UGC recognized
Structural properties of lithium atom under weakly coupled plasma environment	Dr. Tapan Kumar Mukherjee	Physics of Plasmas	ISSN4946 878	https://aip.scitation.org/doi/10.1063/1.4946878	https://aip.scitation.org/doi/10.1063/1.4946878	UGC recognized
Electronic structure of helium atom in a quantum dot	Dr. Tapan Kumar Mukherjee	Commun. Theor. Phys.	ISSN4946 878	https://iopscience.iop.org/journal/0253-6102	https://iopscience.iop.org/article/10.1088/0253-6102/65/3/347	UGC recognized
A comparative study of enzyme efficacy for biodiesel production from Jatropha Curcas oil	Dr. Rupa Bhattacharyya	SSRG International Journal of Applied Chemistry	ISSN 2393 - 9133	http://www.internationaljournalssrg.org/	http://www.internationaljournalssrg.org/IJAC/paper-details?Id=37	SCOPUS
Insights from Analysis of Binding Sites of Human Meprins: Screening of Inhibitors by Molecular Dynamics Simulation Study	Dr.Indrani Sarkar	Combinatorial Chemistry & High Throughput Screening, vol 19	ISSN 26875789	https://benthamscience.com/journals/combinatorial-chemistry-and-high-throughput-screening/volume/19/	https://iopscience.iop.org/article/10.1088/0253-6102/65/3/347/pdf	SCOPUS
Structural properties of lithium atom under weakly	R. Chandra	Asian J. Phys	ISSN 0971-3093	http://demo050307.hostgator.co.in/	http://www.internationaljournalssrg.org/IJAC/paper-	UGC recognized



coupled plasma environment					details?Id=37	
Structural properties of lithium atom under weakly coupled plasma environment	T. K. Mukherjee	Asian J. Phys	ISSN 0971-3093	http://demo050307.hostgator.co.in/	https://pubmed.ncbi.nlm.nih.gov/26875789/	UGC recognized
A comparative mathematical analysis of methane emission in India and USA	Dr. Pijush Basak	Int. Res. J. of Env. Sc	ISSN: 2319-1414 (online)	http://www.isca.in/IJENS/	https://aip.scitation.org/doi/10.1063/1.4946878	SCOPUS
A comparative mathematical analysis of methane emission in India and USA	Dr. Sumit Nandi	Int. Res. J. of Env. Sc	ISSN: 2319-1414 (online)	http://www.isca.in/IJENS/	https://aip.scitation.org/doi/10.1063/1.4946878	SCOPUS
Monsoonal Rainfall of Gangetic West Bengal: Empirical Modeling and Forecasting	Dr. Pijush Basak	Int. J. Earth and Atmospheric Science	ISSN 2349-9222 (Online)	http://www.jakraya.com/journal/ijeas	http://imetsociety.org/wp-content/pdf/vayumandal/2018441/2018441_8.pdf	SCOPUS
Autoregressive Model Development of Some Rainfall Stations Of Assam'	Dr. Pijush Basak	International Journal of Advances in Engg. Sc. & Technology	2348-7550	http://ijaseat.iraj.in/	http://imetsociety.org/wp-content/pdf/vayumandal/2016422/2016422_7.pdf	UGC recognized
Experimental study on redmud based geopolymer concrete with fly ash & GGBS in ambient temperature curing	Rahul Das Biswas	International Journal of Advances in Mechanical and Civil Engineering	ISSN: 2394-2827	https://www.ijser.org/	https://www.researchgate.net/publication/315699318_EXPERIMENTAL_STUDY_ON_REDMUD_BASED_GEOPOLYMER_CONCRETE_WITH_FLY_AS	SCOPUS

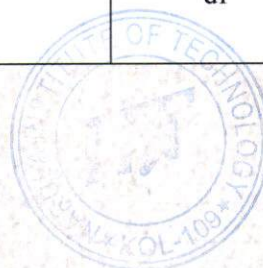
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An Improved Approach For Document Image Mosaicing	Mousumi Saha	Advanced Research In Computer Science And Software Engineering	ISSN(Online): 2277128X	https://journals.indexcopernicus.com/search/details?id=40178	https://www.semanticscholar.org/paper/An-Improved-Approach-for-Document-Image-Mosaicing-Saha-Chakraborty/33070cf2bcead69dd0dc4b272c213a991520209b	ICI
An Improved Approach For Document Image Mosaicing	Tamasree Biswas	Advanced Research In Computer Science And Software Engineering	ISSN(Online): 2277128X	https://journals.indexcopernicus.com/search/details?id=40178	https://www.semanticscholar.org/paper/An-Improved-Approach-for-Document-Image-Mosaicing-Saha-Chakraborty/33070cf2bcead69dd0dc4b272c213a991520209b	ICI
A Novel Approach For Descriptive Answer Script Evaluation	Mousumi Saha	Advanced Research In Computer Science And Software Engineering	ISSN(Online): 2277128X	https://journals.indexcopernicus.com/search/details?id=40178	http://ijarcse.com/Before_August_2017/docs/papers/Volume_6/3_March_2016/V6I3-0295.pdf	ICI
A Novel Approach For Descriptive Answer Script Evaluation	Tamasree Biswas	Advanced Research In Computer Science And Software	ISSN(Online): 2277128X	https://journals.indexcopernicus.com/search/details?id=40178	http://ijarcse.com/Before_August_2017/docs/papers/Volume_6/3_March_2016/V6I3-	ICI



		Engineering			0295.pdf	
Route Prediction From Mobility Pattern Of Cell Phone Users	Tamasree Biswas	Latest Trends In Engineering And Technology	e-ISSN : 2278-621X	https://www.ijltet.org/	https://www.ijltet.org/journal_details.php?id=899&j_id=2957	ICI
Route Prediction From Mobility Pattern Of Cell Phone Users	Mousumi Saha	Latest Trends In Engineering And Technology	e-ISSN : 2278-621X	https://www.ijltet.org/	https://www.ijltet.org/journal_details.php?id=899&j_id=2957	ICI
“Electronically tunable allpass filter: linear VCO design” IEICE Electronics	Dr.Sandhya Pattanayak	Published by Institute of Electronics, Information and Communication Engineers,	DOI: 10.1587/elex.13.20160059	https://www.jstage.jst.go.jp	https://www.researchgate.net/publication/297722149_Electronically_Tunable_Allpass_Filter_Linear_VCO_Design	UGC recognized
Finding synergy networks from gene expression data: a fuzzy rule based approach	Mr.Kausik Sarkar	IEEE Transactions on Fuzzy Systems	ISSN93640611	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=91	https://ieeexplore.ieee.org/document/7429734	SCI
Design of Two Stage Ultra Low Power CMOS Operational Transconductance Amplifier (OTA) Using 180 nm Technology	Mr.Puspak Pain	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	ISSN (Print) : 2320-3765 ISSN (Online): 2278-8875	https://publons.com/journal/47970/international-journal-of-advanced-research-in-elec/	https://www.ijareeie.com/upload/2016/february/2_Design.pdf	WEB OF SCIENCE
Design of Two Stage Ultra Low Power CMOS Operational Transconductance Amplifier	Soumen Pal	International Journal of Advanced Research in Electrical, Electronics	ISSN (Print) : 2320-3765 ISSN (Online): 2278-8875	https://publons.com/journal/47970/international-journal-of-advanced-research-in-elec/	https://www.ijareeie.com/upload/2016/february/2_Design.pdf	WEB OF SCIENCE

(OTA) Using 180 nm Technology		and Instrumentation Engineering		research-in-elec/		
Application Of DNA like organic molecules as a Substrate Of Semiconductor Devices	Dr. Saradindu Panda	Advances In Industrial Engineering And Management	2222-7059 (Print); 2222-7067 (Online)	http://www.aspbs.com/aiem.htm	https://aiem.com.my/vol-5-no-1-2016-pp-12-17/	UGC recognized
Maximum Absorption In Quantum Dot Solar Cell With Hyperbolic Band Model	Dr. Saradindu Panda	Advances In Industrial Engineering And Management	2222-7059 (Print); 2222-7067 (Online)	http://www.aspbs.com/aiem.htm	https://aiem.com.my/archives/2016/1/61-67.pdf	UGC recognized
Optimization Of Digital Comparator Using Transmission Gate Logic Style	Dr. Saradindu Panda	International Journal Of Advanced Research In Engineering And Technology	2120-0201	http://www.iaeme.com/ijaret/index.asp	https://docplayer.net/90106392-International-journal-publication-in.html	SCOPUS
Performance Evaluation Of 4:1 Multiplexer Using Different Domino Logic Styles	Dr. Saradindu Panda	International Journal Of Electronics And Communication Engineering And Technology	2120-0201	https://www.iaeme.com/ijecet/IJECET_ai.asp	https://docplayer.net/27722281-Performance-evaluation-of-4-1-multiplexer-using-different-domino-logic-styles.html	SCOPUS
Analyzing Different Features of Artificial Neural Networks and Its Applications In Different Fields	Soumya Bhattacharyya	International Journal of Innovative Research in Science, Engineering and Technology	Volume 5 Issue 3 March 2016 ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710	https://www.iomcworld.org/innovative-research-science-engineering-technology.html	https://www.researchgate.net/publication/304114374_Analyzing_Different_Features_of_Artificial_Neural_Networks_and_Its_Applications_In_Diffe	UGC recognized

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Analyzing Different Features of Artificial Neural Networks and Its Applications In Different Fields	Sujata Kundu	International Journal of Innovative Research in Science, Engineering and Technology	Volume 5 Issue 3 March 2016 ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710	https://www.iomcworld.org/innovative-research-science-engineering-technology.html	https://www.researchgate.net/publication/304114374_Analyzing_Different_Features_of_Artificial_Neural_Networks_and_Its_Applications_In_Different_Fields	UGC recognized
Analyzing Different Features of Artificial Neural Networks and Its Applications In Different Fields	Shyamapriya Chowdhury	International Journal of Innovative Research in Science, Engineering and Technology	Volume 5 Issue 3 March 2016 ISSN(Online) : 2319-8753 ISSN (Print) : 2347-6710	https://www.iomcworld.org/innovative-research-science-engineering-technology.html	https://www.researchgate.net/publication/304114374_Analyzing_Different_Features_of_Artificial_Neural_Networks_and_Its_Applications_In_Different_Fields	UGC recognized
Condensed Matrix Descriptor for Protein Sequence Comparison.	S. Ghosh	Analytical Mass Spectrometry And Chromatography	2332-1776	https://www.scirp.org/journal/ijamsc/	https://www.researchgate.net/publication/298727600_Condensed_Matrix_Descriptor_for_Protein_Sequence_Comparison	UGC CARE
An Approach to Implement Data Mining in Service Oriented Methodology towards Amelioration of Society	Soumya Bhattacharyya	International Journal of Innovations in Engineering & Technology	ISSN : 2319 1058	https://ijiet.com/	http://ijiet.com/wp-content/uploads/2016/02/47.pdf	UGC CARE



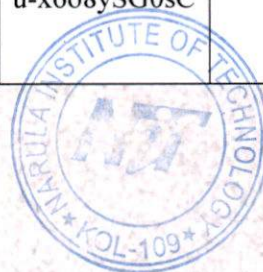
An Approach to Implement Data Mining in Service Oriented Methodology towards Amelioration of Society	Tamasree Biswas	International Journal of Innovations in Engineering & Technology	ISSN : 2319 1058	http://ijiet.com/	http://ijiet.com/wp-content/uploads/2016/02/47.pdf	UGC CARE
An Approach to Implement Data Mining in Service Oriented Methodology towards Amelioration of Society	Mousumi Saha	International Journal of Innovations in Engineering & Technology	ISSN : 2319 1058	http://ijiet.com/	http://ijiet.com/wp-content/uploads/2016/02/47.pdf	UGC CARE
A Systematic Approach of Data Fusion Technique in RFID Sensor Network using Neuro-Fuzzy Technique	Sujata Kundu	International Journal of Computer Applications	ISSN 0975 - 8887	www.ijcaonline.org	https://www.researchgate.net/publication/301335733_A_Systematic_Approach_of_Data_Fusion_Technique_in_RFID_Sensor_Network_using_Neuro-Fuzzy_Technique	SCOPUS
Antiloosening ability of 5/8 inch stainless steel BSW threaded fasteners	Bikash Panja	AIP Conference Proceedings	0094-243X	https://aip.scitation.org/journal/apc	https://www.researchgate.net/publication/288003793_Antiloosening_Ability_of_58_Inch_Stainless_Steel_BSW_Threaded_Fasteners	UGC recognized
DC Motor Movement Controlled by Gesture Orientation Using ARDUINO	B.D.Majumder	International Journal of Engineering Research in Electronic and Communication	ISSN(Online): 2394-6849	https://ijerect.com/	https://www.researchgate.net/publication/320852328_DC_Motor_Movement_Controlled_by_Gesture	Thomson Reuters Researchid

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DC Motor Movement Controlled by Gesture Orientation Using ARDUINO	Susmita Das	International Journal of Engineering Research in Electronic and Communication, Engineering (IJERECE)	ISSN(Online): 2394-6849	https://ijerect.com/	https://www.researchgate.net/publication/320852328_DC_Motor_Movement_Controlled_by_Gesture_Orientation_Using_ARDUINO	Thomson Reuters Researchid
DC Motor Movement Controlled by Gesture Orientation Using ARDUINO	D. Sur	International Journal of Engineering Research in Electronic and Communication, Engineering (IJERECE)	ISSN(Online): 2394-6849	https://ijerect.com/	https://www.researchgate.net/publication/320852328_DC_Motor_Movement_Controlled_by_Gesture_Orientation_Using_ARDUINO	Thomson Reuters Researchid
DC Motor Movement Controlled by Gesture Orientation Using ARDUINO	Arijita Das	International Journal of Engineering Research in Electronic and Communication, Engineering (IJERECE)	ISSN(Online): 2394-6849	https://ijerect.com/	https://www.researchgate.net/publication/320852328_DC_Motor_Movement_Controlled_by_Gesture_Orientation_Using_ARDUINO	Thomson Reuters Researchid
Control Action Simulation for Industrial Boiler Performance Analysis	Ms.Susmita Das	WJMS	ISSN: 1746-7233,	http://www.wjms.org.uk/	http://www.worldacademicunion.com/journal/1746-7233WJMS/wjmsvol13no01paper04.pdf	UGC recognized
Automatic Liquid Level & Temperature Monitoring and Controlling	Ms.Susmita Das	IOSR Journal of Electrical and Electronics	e-ISSN: 2278-1676,p-ISSN: 2320-3331	https://www.iosrjournals.org/iosr-jeee.html	http://www.iosrjournals.org/iosr-jeee/Papers/Vo111%20Issue%	UGC recognized

		and Technology		- technology. html		
Dynamic Model Analysis of Three Phase Induction Motor Using Matlab/Simulink	Pratyush a Biswas Deb	Internationa l Journal of Scientific & Engineering Research, Volume 7, Issue 3,	ISSN 2229-5518	https://www.ijser.org/research-paper-publishing-march-2017_page_U.aspx	https://www.ijser.org/researchpaper/Dynamic-Model-Analysis-of-Three-Phase-Induction-Motor-Using-Matlab-Simulink.pdf	UGC recognized
Dynamic Model Analysis of Three Phase Induction Motor Using Matlab/Simulink	Sudhang shu Sarkar	Internationa l Journal of Scientific & Engineering Research, Volume 7, Issue 3,	ISSN 2229-5518	https://www.ijser.org/research-paper-publishing-march-2017_page_U.aspx	https://www.ijser.org/researchpaper/Dynamic-Model-Analysis-of-Three-Phase-Induction-Motor-Using-Matlab-Simulink.pdf	UGC recognized
An Efficient Framework to Identify Quality Attributes and to Provide Flexibility in Development	Anirban Bhar	Journal of Computer Science and Mobile Computing	ISSN: 2320- 088X	https://www.ijcsmc.com/	http://www.ijesrt.com/issues%20pdf%20file/Archive-2016/July-2016/10.pdf	UGC CARE
Binary expansion based denoising algorithm for an image corrupted by Gaussian noise	Shubhen du Banerjee	CSI transactions on ICT (Springer)	https://doi.org/10.1007/s40012-016-0151-7	https://link.springer.com/article/10.1007/s40012-018-0204-1	https://link.springer.com/article/10.1007/s40012-016-0151-7	SPRINGER



An Approach To Implement Data Mining In Service Oriented Methodo-Logy Towards Ame-Lioration Of Society	Soumya Bhattacharya	Innovations In Engineering And Technology	2319-1058	http://webcache.googleusercontent.com/search?q=cache:RXQ1oWs2jvQJ:ijiet.com/wp-content/uploads/2016/02/47.pdf+&cd=2&hl=en&ct=clnk&gl=in	http://www.ijesrt.com/issues%20pdf%20file/Archive-2016/July-2016/10.pdf	SPRINGER
An Approach to Handle Software Designing Defects to Produce High Quality Acceptable Software	Soumya Bhattacharya	Journal of Computer Science and Mobile Computing	ISSN: 2320-088X	https://www.ijcsmc.com/	https://ijcsmc.com/docs/papers/February2016/V5I2201603.pdf	UGC CARE
An Approach to Handle Software Designing Defects to Produce High Quality Acceptable Software	Anirban Bhar	Journal of Computer Science and Mobile Computing	ISSN: 2320-088X	https://www.ijcsmc.com/	https://ijcsmc.com/docs/papers/February2016/V5I2201603.pdf	UGC CARE
An Approach To Implement Data Mining In Service Oriented Methodo-Logy Towards Ame-Lioration Of Society	Tamasre Biswas	Innovations In Engineering And Technology	2319-1058	http://webcache.googleusercontent.com/search?q=cache:RXQ1oWs2jvQJ:ijiet.com/wp-content/uploads/2016/02/47.pdf+&cd=2&hl=en&ct=clnk&gl=in	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=pqtM4Z0AAAJ&citation_for_view=pqtM4Z0AAAAJ:u-x6o8ySG0sC	UGC CARE



Other Publications

International Conference publications of 2017

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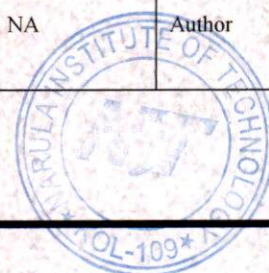
Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
2 nd International Conference on Devices for Integrated Circuit (DEVIC), 2017	Design of Resistor String Digital to Analog Converter using Nano Author Dimensional MOS Transistor for Low Power and High Speed Circuit Application	Surajit Bari, Debashis De	Kalyani, Nadia, India	March, 2017		Author	
2017 Devices for Integrated Circuit (DEVIC)	Design of Probe feed patch antenna with different Dielectric Constants	Soumendu Ghosh, Abhijit Ghosh, Indranath Sarkar	Kalyani Government Engineering College	March 23 th -24 th , 2017	ISBN : 978-1-5090-4724-6	Author	
DEVIC 2017	Design of Low Power 12-bit Magnitude Comparator	Saradindu Panda	IEEE Eds Chapter & KGEC, Kalyani	March 23 th - 24 th , 2017		Author	
DEVIC 2017	Layered T Comparator Design using Quantum-dot Cellular Automata	Saradindu Panda	IEEE Eds Chapter & KGEC, Kalyani	March 23 th - 24 th , 2017		Author	

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Sl No	Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
1	National Conference on ELT of Management and Technology : Recent Trends (NCEMT2017)	Contactless speed monitoring and displaying	Soumya Das, Pratyusha Biswas Deb, Sreeja Chakraborty, Nilkantha Nag, Molay Laha, P.S. Majumder	Narula institute of Technology, Agarpara	27-02-2017	e- ISSN:2395-0056 p- ISSN:2395-0072		

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Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
All India Peoples' Technology Congress (AIPTC) 2017, 4-5 February, 2017	GPS and IRNSS	Anwesha Roy, Dibyendu Sur	National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata	4-5 February, 2017	NA	Author	NA
All India Peoples' Technology Congress (AIPTC) 2017, 4-5 February, 2017	Report on MANET and its Security Aspects	Neha Mukherjee, Dibyendu Sur	National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata	4-5 February, 2017	NA	Author	NA
All India Peoples' Technology Congress (AIPTC) 2017, 4-5 February, 2017	Analysis and Application of EEG Signal for Real Life Automation	Shrisom Laha, Subhankar Mahindar, Sandipan Deb, Koushik Hati, Dibyendu Sur	National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata	4-5 February, 2017	NA	Author	NA
All India Peoples' Technology Congress (AIPTC) 2017, 4-5 February, 2017	Stress analysis using electrocardiogram	Dibyendu Sur, Swarup Das Gupta, Debajyoti Gupta Sharma, Krishnendu Chowdhury, Pranay Das	National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata	4-5 February, 2017	NA	Author	NA
All India Peoples' Technology Congress (AIPTC) 2017, 4-5 February, 2017	Discussion on Various Applications of Golden Ratio in Different Fields of Modern Art and Science	Neha Mukherjee, Dibyendu Sur	National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata	4-5 February, 2017	NA	Author	NA
Inter College Academic Meet 2017	Development of Brain Wave Controlled Hardware Automation	Shrisom Laha, Subhankar Mahindar, Sandipan	Guru Nanak Institute of Technology, Sodpur, Kolkata	19 March, 2017	NA	Author	NA



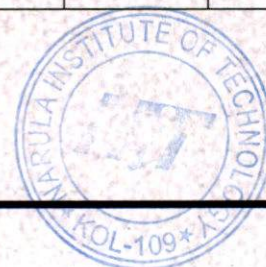
	System	Deb, Koushik Hati, Dibyendu Sur					
National Conference on Advance Computing, Communication and Devices 2017 (NCACCD 2017)	An Approach towards Real Time Vehicle Density Detection and Alarm Generation	Dibyendu Sur, Vijitaa Das, Rituparna Dey, Swati Nayna	Narula Institute of Technology Agarpara, Kolkata	16-17 March, 2017	NA	Author	NA
National Conference on Modern Trends in Physics (NCMTP 2017)	Car Density Detection Using Webcam and MATLAB	Dibyendu Sur, Vijitaa Das, Rituparna Dey, Swati Nayna	Narula Institute of Technology Agarpara, Kolkata	10-11 March, 2017	NA	Author	NA



International Conference publications of 2016

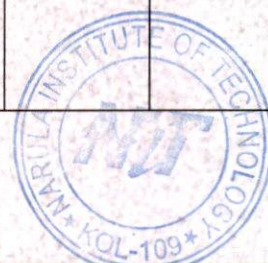
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Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
MICRO-2016, TEQIP-II, WBUT sponsored 3rd Int. Conference on Microelectronics, Circuits and Systems	Average power consumption and delay analysis of 4 bit binary to grey code converter circuit using nano dimensional MOS transistors	SURAJIT BARI , DEBASHIS DE , ANGSUMAN SARKAR	Kolkata	7/9/2016	ISBN : 978-93-80183-45-5	Author	
TEQIP-II, WBUT Sponsored 1st International Conference Nanocomputing & Nanobiotechnology	Performance Analysis of Dual Gate MOSFET for Sensing Bio-Particle	Surajit Bari , RumaSahoo , Debashis De, AngsumanSarkar	Kolkata	Oct,2016		Author	
TEQIP-II, WBUT Sponsored 1st International Conference Nanocomputing & Nanobiotechnology	Digital Circuit Performance of triple material gate-engineered junction less surrounding gate MOS Transistor	Surajit Bari, Angsuman Sarkar	Kolkata	Oct,2016		Author	
1 st International Conference on VLSI Device, Circuit and System (VLSI DCS 2016)	Design of 4 Bit Rotate Left Network at Low Power and Small Delay Using MOS	Surajit Bari , Debashis De , AngsumanSarkar	Kolkata	Oct, 2016		Author	



	Transistor at 45nm Channel Length						
IEEE EDS Kolkata Chapter Sponsored 5 th International Conference on Computing , Communication and Sensor Network (CCSN-2016)	Design Issues for Clock Generation and Distribution Circuit Using Nano Dimensional MOSFET	Surajit Bari , Debashis De , AngsumanSarkar	Kolkata	Dec, 2016		Author	
International Conference on Computational Advancement in Applied Science & Engineering	REMOVAL OF THE ARTIFACTS PRESENT IN THE EXISTING DEHAZING TECHNIQUES	Sangita Roy, Debasmita Roy, Sriparna Banerjee, SheliSinhaChaudhuri	Narula Institute of Technology	4th-6th Oct, 2016		Author	Best Paper Award
International Conference on Computational Advancement in Applied Science & Engineering	Subjective & Objective Evaluation of Dehazed Image by DCP	Sangitaroy, MainkHore, Sourav Kumar Datta	Narula Institute of Technology	4th-6th Oct,2016		Author	
International Conference on Computational Advancement in Applied Science & Engineering	MODELING AND CONTROL OF SKY PIXELS IN VISIBILITY IMPROVEMENT THROUGH CSA	Sangita Roy, SheliSinhaChaudhuri	Narula Institute of Technology	4th-6th Oct,2016		Author	
MICRO 2016	Design Aspects of Braille Display Board for Visually Disabled	MoumitaGhosh, Anirudha Ray, Swati Ghosh. Moupali Roy, AniruddhaGhosh , Mainuck Das, BiswarupNeogi.	7/9/2016	978-93-80813-45-5	Author		
International Conference on Computational Advancement in	Modelling of Satellite antenna using HFSS	MainakHore, SouravDatta, PiyuSarcar, ArpitaSantra and	4 th -6 th Oct,2016		Author		

Applied Science & Engineering		Sangita Roy					
International Conference on Computational Advancement in Applied Science & Engineering	Study of Security Threats in Ad hoc Network and their mitigation	PiyuSarcar, ArnabSaha, SabarnaChowdhury, Soma Manna, Arun Kumar Mondal	4 th -6 th Oct, 2016		Author		
Advancement of Computer Communication & Electrical Technology	Optimal Path selection for AODV routing protocol in MANET	Soma Manna, Arun Kumar Mondal, PiyuSarcar	21/10/2016	ISBN 9781138031579	Author		
4th International Conference on Advanced Computing, Networking, and Informatics(ICA CNI 2016)	Introducing MIT Rule towards Improvement of Adaptive Mechanical Prosthetic Arm Control Model	Swati Barui	22-24 Sept 2016		Author		
International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Design and Simulation of Op-Amp Based R-2R Ladder Type 4 bit Digital to Analog Converter (DAC) Using 90 NM CMOS Technology	Souen Pal, Arnima Das, Swati Barui, Puspak Pain	4-6th Oct 2016		Author		
International Conference on Computational Advancement in Applied Science & Engineering	Advancement of Microstrip Antenna Towards Wearable Technology: A Review	SoumenduGhosh, Sk. Ashraful Islam, Satarupa Roy, AbhijitGhosh	Narula Institute of Technology	4 th -6 th Oct, 2016	Author		
International conference on computational advancement in applied science	ANN based adaptive modulation for increasing the QoS of a	SandhyaPattanayak and Piu Das	Narula Institute of Technology	4-6th Oct 2016	Author		



and engineering - 2016	cognitive radio system						
International Conference on Computational Advancement in Applied Science & Engineering	Study the effect of meditation on heart rate variability-an information therapeutic approach	Tania Paul Das, Kaushik Sarkar	Narula Institute of Technology	4 th -6 th Oct, 2016		Author	
International Conference on Computational Advancement in Applied Science & Engineering	Modelling of Satellite antenna using HFSS	Mainak Hore, Sourav Datta, Piyu Sarcar, Arpita Santra and Sangita Roy	Narula Institute of Technology	4 th -6 th Oct, 2016		Author	
ICCECE 2016	Enhancement of optical absorption in Plasmonic thin film solar cell	DR. SARADINDU PANDA	IEEE & Techno India University, Kolkata			Author	
CCSN 2016	Effect of Nobel metallic nanoparticle to improve in absorption in Plasmonic thin film Solar cell	DR. SARADINDU PANDA	IEEE EDS KOLKATA CHAPTER	24-25 Dec 2016		Author	

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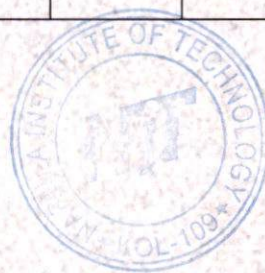
Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Application of a Programmable Logic Controller in an Autodrill operation	Pratyusha Biswas Deb, Sajan Saha, Oindrila Saha, Sudhangshu Sarkar	Narula institute of Technology, Agarpara	04.10.16 To 06.10.16			

International Conference on computational	Design and Development of Miniature	Pratyusha Biswas Deb, Pallav Dutta,	Narula institute of Technology,	04.10.16 to 06.10.16			
Advancement in Applied Science and Engineering (IC2A2SE-2016)	Wind Turbine	Sudhangshu Sarkar	Agarpara				

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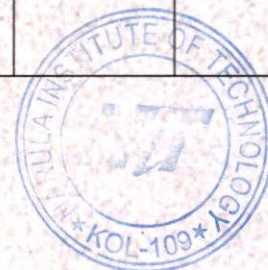
Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016)	Automation towards the Control of Rail-Gates using LDR	Dibyendu Sur, Sudipta Paul	Narula Institute of Technology Agarpara, Kolkata,	4-6 October, 2016	NA	Author	NA
International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016)	An Alternate Process towards Automatic Luggage Theft Monitoring & Alarm Generation using LabVIEW	Dibyendu Sur, Susmita Das, Swati Nayna, Poonam Verma, Harshita Jain, Anismita Paul, Yekta Roy	Narula Institute of Technology Agarpara, Kolkata,	4-6 October, 2016	NA	Author	NA
International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016)	An Alternate Power Saving Method Using PIR Sensor	Dibyendu Sur, Atri Kumar Mondal, Attrayee Sinha, Rituparna Dey, Uday Sankar Saha and Vijitaa Das	Narula Institute of Technology Agarpara, Kolkata,	4-6 October, 2016	NA	Author	NA
International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016)	Detection of Strangers by using PIR sensor	Uday Sankar Saha, Atri Mondal, Rituparna Dey, Vijitaa Das, Prakash Kumar Thakur, Attrayee Sinha, Dibyendu Sur	Narula Institute of Technology Agarpara, Kolkata,	4-6 October, 2016	NA	Author	NA

International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016)	A Review Report on Numerous Applications of Golden Ratio in the Fields of	Dibyendu Sur, Neha Mukherjee	Narula Institute of Technology Agarpara, Kolkata	4-6 October, 2016	NA	Author	NA
	Science, Art and Technology						
International Conference on Computational Advancement in Applied Science and Engineering	Monitoring of the ECG signal to detect Myocardial Infarction using the concept of Internet of Things	Arijita Das, Bansari Deb Majumder, Sayan Kumar Swar, Deepanwita Basu, Arghya Mitra, Anumita Dey	Narula Institute of Technology Agarpara, Kolkata	4-6 October, 2016	NA	Author	NA
ICCSE2016	Study on Systemic Modelling for Cardiac and Respiratory System towards Support on Prosthesis Facets	Susmita Das, Soumendu Bhattacharjee, Dr. Swapan Bhattacharyya, Dr. Biswarup Neogi,	RCC Institute of Information Technology	4th – 6th October 2016	YES	Presenter	NA
10 th International conference on Sensing technology(ICST 2017)	Real time measurement of water level using admittance method and fuzzy based linearizer	Joyanta Kr. Roy, Bansari Deb Majumder	Nanjing, China	11 th -13 th Nov, 2016	Electronic ISSN: 2156 -8073	Presenter	NA
International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016)	IoT based Home Automation System	Saikat Biswas, Bansari Deb Majumder, Arijita Das	Narula Institute of Technology Agarpara, Kolkata	4-6 October, 2016	NA	Author	NA



Department of CSE

Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
International Conference of Advanced Computing (ICAC 2016)	An incentive driven reliable message exchange scheme in post-disaster situation using delay tolerant network	Chandrima Chakrabarti	Moulana Abul Kalam Azad University of Technology (MAKAUT), Kolkata	26-27 Oct, 2016	ISSN: 2277-9078	Chandrima Chakrabarti	
						Author, paper presenter	
The International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Reliable Peer to Peer Communication in Post Disaster Situation using Delay Tolerant Network	Chandrima Chakrabarti, Arkopal Sarkar	Narula Institute of Technology	4-6 Oct 2016		Chandrima Chakrabarti	
						Author, paper presenter	
IEEE PDGC 2016	Mobile assisted Remote Healthcare delivery	Safikureshi Mondal, Prof. Nandini Mukherjee	Jaypee University of Information Technology, Solan, Wagnaghat, HP	24-27 Dec, 2016		Safikureshi Mondal	
						Main author, presenter	
International Conference on Industry Interactive Innovations in Science, Engineering and Technology	Application of Chaos Game in Tri-Nucleotide Representation for the Comparison of Coding Sequences of β -Globin Gene	Subhram Das, Nobhonil Roy Choudhury, D. N. Tibarewala, D. K. Bhattacharya	JIS College of Engineering	25-26 October, 2016		Main author and paper presenter Subhram Das	



Department of IT

Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Definition and Strategies to Imply Quality Attributes During Software Development	Anirban Bhar, Soumya Bhattacharyya, Shyamapriya Choudhury, Sujata Kundu	Narula institute of Technology, Agarpara	04.10.2016.-06.10.2016			
International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Comparative Methodology of Testing Software with Non Functional Requirement Over Functional Requirement for Producing High Quality Acceptable Software	Soumya Bhattacharyya, Anirban Bhar	Narula institute of Technology, Agarpara	04.10.2016.-06.10.2016			

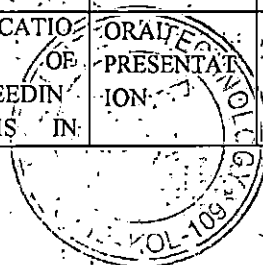


Department of BSHU

Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
Estimation of Expected time to Extinction of HIV: A Mathematical Approach	Nikhilesh Sil	Narula Institute of Technology , Kolkata	4-6 Oct. 2016	-	Oral Presentation	
Alternative Food Enhance the Stability Criteria in A Food-Chain Model with Allee Effect	Nikhilesh Sil	Nirmala College for Women (Autonomous), Coimbatore, Tamil Nadu, India	15—17, December 2016	ISBN 978-93-84124-92-2	Oral Presentation	
A Quantitative-Structure-Activity-Relationship (QSAR) Study of Anthracycline Analogues – An Anticancer Drug	Indrani Sarkar	Institute of Mathematics, Bioinformatics, Information Technology and Computer Sciences (IMBIC)	Dec 21-23, 2016	Proceedings of IMBIC Volume 5, (2016), ISBN 978-81-925832-4-2.	presentation	
Computational Methodologies Followed in Structure Based InSilico Drug Design:	Indrani Sarkar	JIS College of Engineering, Kalyani , Nadia , West Bengal	25-26 Oct 2016	Springer, Networks, Syst., Vol. 11, Swapan Bhattacharyya et al: I3SET 97898110-39522, 429030_1_En (55)	Presentation	



To study the mechanism of intercalation of anthracycline drugs with DNA structure by molecular modeling, mechanics and dynamics	Indrani Sarkar	Narula Institute of Technology, Kolkata 700109	Oct 2016			
A Quantitative-Structure-Activity-Relationship (QSAR) Study of Anthracycline Analogues - An Anticancer Drug	Indrani Sarkar	Narula Institute of Technology, Kolkata 700109	Oct 2016			
Usage of Nano Composites as Electrolytes	Susmita Karan	NARULA INSTITUTE OF TECHNOLOGY	4-6 Oct 2016	PUBLICATION OF PROCEEDINGS IS IN PROGRESS	ORAL PRESENTATION	
The significance of English Language for Engineering students	Sharmistha Basu Leena Sarkar Bhaduri	NARULA INSTITUTE OF TECHNOLOGY	4-6 Oct 2016	PUBLICATION OF PROCEEDINGS IS IN PROGRESS	ORAL PRESENTATION	
Bilingualism - a challenge in multicultural environment and professional communication	Leena Sarkar Bhaduri Sharmistha Basu					
A comparative study of enzyme efficacy for biodiesel production from	Sumit Nandi	NARULA INSTITUTE OF TECHNOLOGY	4-6 Oct 2016	PUBLICATION OF PROCEEDINGS IS IN	ORAL PRESENTATION	



Jatropha Curcas oil		Y		PROGRESS		
Interpenetrating network formation of PVC in modifying its properties	Rupa Bhattacharyya	Birla Institute of Technology, Mesra, Ranchi	18 – 20 th August, 2016	ISBN 978-93-85777-83-7	ORAL PRESENTATION	
PVC and PBMA in full IPN formation and property modification	Rupa Bhattacharyya, Sumit Nandi	NARULA INSTITUTE OF TECHNOLOGY	4-6 October, 2016		ORAL PRESENTATION	
A comparative study of enzyme efficacy for biodiesel production from jatropha curcas oil	Sumit Nandi, Rupa Bhattacharyya	NARULA INSTITUTE OF TECHNOLOGY	4-6 October, 2016		ORAL PRESENTATION	
Monsoonal Rainfall of Gangetic West Bengal: Empirical Modelling and Forecasting	Pijuh Basak	Hotel Indispath, Sec-V, Salt Lake, Kol-91	21-23 Dec, 2016	Proc. of IMBIC, Vol. 16, ISBN:978-81-925832-3-5	Paper Presentation	

CA

Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
IC2A2AC 2016	Optimization of average packet drop time in a distributed cognitive radio network using genetic algorithm	Subhasree Bhattacharjee, Shewta Chanda, Anuradha Bhattacharya	Narula Institute of Technology	16.08. 2016		As author, not paper presenter	
IC2A2AC 2016	Optimization of Average Packet Drop Time in CRN	Gangotri Ghosh, Abhijeet kumar	MAKAUT	26.10. 2016	ISSN: 2277-9078	As author, not paper presenter	



	Using DE Algorithm	Sharma, Sandeep Kumar and Subhasree Bhattacharjee					
International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016)	A Quantitative -Structure-Activity-Relationship (QSAR) Study of Anthracycline Analogues – An Anticancer Drug	Indrani Sarkar, Sanjay Goswami, et al	Narula Institute of Technology Agarpara, Kolkata, India	4-6 October, 2016	IOSR Journals	Presented	-
TEQIP sponsored International Conference on Industry Interactive Innovations in Science, Engineering and Technology	Computational methodologies followed in Structure based In-Silico Drug Design: An example	Indrani Sarkar, Sanjay Goswami, et al	JIS College of Engineering, Kalyani	October 25-26, 2016	Springer I3SET vol 11	Presented	-
International Conference MSAST	Quantitative Structure Activity Relationship (QSAR) Study of Anthracycline Analogues-An Anticancer Drug	Indrani Sarkar, Sanjay Goswami et al.	Institute for Mathematics, Bioinformatics, Information Technology and Computer Science	December 21-23, 2016	IOSR Journal	Presented	-

			(IMBIC)				
International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016)	Hexalevel Greyscale Stamping to Classify Clouds from Satellite Imagery	Sanjay Goswami, barnali Goswami, et al	Narula Institute of Technology Agarpura, Kolkata, India	4-6 Oct 2016	IOSR Journals	Presented	Best Paper – CS Track

Other Publications (National/ International) 2017

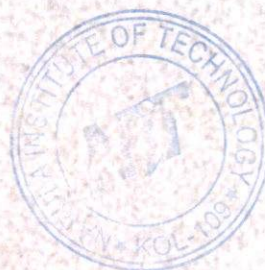
Department of CSE

1. International Conference

Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
COMSNET-17 (Nethealth Workshop)	A Framework for ICT-based Primary Healthcare Delivery for Children	Safikureshi Mondal, Prof. Nandini Mukherjee	IISC Bangalore, IIT Delhi, IIT Kharagpur, IIT Kanpur, IIT Bombay, IIT Hyderabad, University of Pennsylvania, USA	7-10th Jan, 2017		Safikureshi Mondal Main author, presenter	
IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET17)	MHRP: A Novel Mobility Handling Routing Protocol in Wireless Body Area	Koushik Karmakar, S Biswas, S Neogi	SSN College of Engineering, Old Mahabalipuram Road, Kalavakkam, Tamil Nadu	22-24 March 2017	NIL	Koushik Karmakar Paper presenter	NIL

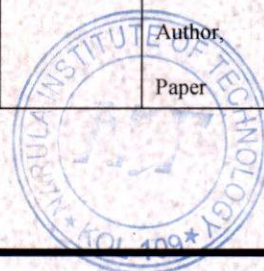


during 22-24 March 2017 at Chennai, India.	Network.		603110,				
IEEE COMSNET- 17 (2017 9th International Conference on Communication Systems and Networks (COMSNETS))	A Framework for ICT-based Primary Healthcare Delivery for Children	Safikureshi Mondal, Prof. Nandini Mukherjee	Hotel chancery Pavilion, Bengaluru	4- 7 th Jan,201 7		Safikureshi Mondal Main author, presenter	



2. National Conference

Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
TEQIP Sponsored National Conference on Advance Computing, Communication and Devices'2017 (NCACCD 17)	A Reputation based Scheme in Post-disaster Situation using Delay Tolerant Network	Chandrima Chakrabarti, Sulagna Ghosh, Ananya Banerjee	Narula Institute of Technology	16-17 Mar, 2017		Chandrima chakraborty Main author and Paper Presenter	
TEQIP Sponsored National Conference on Advance Computing, Communication and Devices'2017 (NCACCD 17)	Towards Efficient Routing Protocol in Disaster Response Environment using Delay Tolerant Network: A Relative Survey	Chandrima Chakrabarti, Ananya Banerjee, Suman Kumar Roy, Arijit Manna	Narula Institute of Technology	16-17 Mar, 2017		Chandrima chakraborty Main author Paper, presenter Suman kumar Roy	
TEQIP Sponsored National Conference on Advance Computing, Communication and Devices'2017 (NCACCD 17)	Proposed Framework for Disaster Management: A Web-Enabled Approach	Ananya Banerjee, Chandrima Chakrabarti, Arghya Datta, Sulagna Ghosh	Narula Institute of Technology	16-17 Mar, 2017		Ananya Banerjee main author and paper presenter	
TEQIP Sponsored National Conference on Advance Computing, Communication	An Era of Opportunistic Communication using Delay Tolerant Network: an	Ananya Banerjee, Chandrima Chakrabarti, Soumyajit Banerjee, Pritam Sreemani, Arpita	Narula Institute of Technology	16-17 Mar, 2017		Ananya Banerjee Main Author, Paper	



and Devices'2017 (NCACCD 17)	Overview	Roy				presenter Pritam Sreemani.	
NCACCD'17	An Offloading Framework for Data retrieval technique in Mobile-Cloud Computing	Safikureshi Mondal	Narula Institute of Tech	16 – 17 th March, 2017		Main author	
National Conference on Advance Computing, Communication and Device's 2017	The study of keyword search Technique	Safikureshi Mondal, Ananya Banerjee, Md Ashifuddin Mondal	Narula Institute of Technology	16 – 17 th March, 2017		Safikureshi Mondal Main author	
National Conference on Advance Computing, Communication and Device's 2017	The overview and research challenges in Mobile-Cloud computing	Safikureshi Mondal, Ananya Banerjee, Md Ashifuddin Mondal	Narula Institute of Technology	16 – 17 th March, 2017		Safikureshi Mondal Main author	
National Conference on Advance Computing, Communication and Device's 2017	RF based Universal Remote Controller for Electrical Devices	Kaustav Ghosh, Biswanath Saha, Debraj Sur, Swagata nDas, Md Ashifuddin Mondal	Narula Institute of Technology	16 – 17 th March, 2017		Koustav Ghosh Main Author	
TEQIP sponsored & technically sponsored by IEEE Yong professionals National Conference on Advanced Computing, Communication and Devices (NCACCD'17)	A survey of routing protocols in Body Area Network	K Karmakar	Dept of Computer Sc & Engg. Narula Institute of Technology (NiT), Agarpara, Kolkata: 700109	16 – 17 th March, 2017		Main author k.karmakar	

TEQIP sponsored & technically sponsored by IEEE Yong professionals National Conference on Advanced Computing, Communication and Devices (NCACCD'17)	Pervasive healthcare: A new dimension in healthcare system	K Karmakar	Dept of Computer Sc & Engg, Narula Institute of Technology (NiT), Agarpara, Kolkata: 700109	16 – 17 th March, 2017		Main author K. Karmakar	
National Conference on Advance Computing, Communication and Devices'2017	An Era of Opportunistic Communication using Delay Tolerant Network : an Overview	Ananya Banerjee, Chandrima Chakrabarti, Soumyajit Banerjee, Pritam Sreemani, Arpita Roy, Koushik Karmakar	Narula Institute of Technology	16 17 th March, 2017		Main author Ananya Banerjee	

Department of ME

1. International Conference

Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
7 th International Conference on Materials Processing and Characterization (ICMPC-2017)	Study of MRR for EN47 Spring Steel in WEDM	Sudip Banerjee, Bikash Panja and Soupayan Mitra	Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	17 th -19 th March, 2017	It is not published yet. It will be published in materials today proceedings.	Oral Presentation	No



2. National Conference

Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
National Conference on Advance Computing, Communication and Devices (NCACCD-17)	The Overview and Research Challenges in Mobile-Cloud Computing	Safikureshi Mondal, Anannya Banerjee, Md. Ashifuddin Mondal and Akhtarujjaman Sarkar	Department of computer science & engineering, Narula Institute of Technology, Kolkata	16 th -17 th march, 2017	It is not published yet.	Oral Presentation	No
National Conference on Modern Trends in Physics (NCMTP-2017)	Taguchi based optimization and numerical modeling of surface roughness in CNC turning operation	Arghya Gupta	Department of Basic Science & Humanities (Physics) Narula Institute of Technology, Kolkata	10 th -11 th march 2017	It is not published yet.	Oral Presentation	No

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National Conference

Name of the Conference	Title of the paper	Author(s)	Venue	Date	Proceedings with ISBN No. (if any)	Type of participation	Awards (if any)
National Conference on Advance Computing, Communication and Devices (NCACCD'17)	Penalty based Weight Adjustment Mechanism in Distributed Cognitive Radio Network	Subhasree Bhattacharjee	Narula Institute of Technology	16.3.217		Paper Presenter	

TEQIP Sponsored National Conference on Modern Trends in Physics	Big Data Analytics Framework In Healthcare	Sanjay Goswami, Indrani Sarkar, Anwesha Das, Kaustav Bhattacharya and Disha Dasgupta	Dept BS& HU (Physics), Narula Institute of Technology, Kolkata	10-11 March, 2017		Presented	-
TEQIP Sponsored National Conference on Modern Trends in Physics	Application of Artificial Neural Networks and Genetic Algorithm in Drug Discovery	Indrani Sarkar and Sanjay Goswami	Dept BS& HU (Physics), Narula Institute of Technology, Kolkata	10-11 March, 2017		Presented	



Book Chapter

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	ISBN/ISSN number of the proceeding	Whether at the time of publication Affiliating Institution Was same Yes/NO	Name of the publisher
Sanjay Goswami	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Big Data Analysis Framework in Healthcare	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Sangita Roy	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Role of several non-linear filters in image processing	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Kunal Das	National Conference On Modern Trends in Physics (NCMTTP 2017)	Reversible Combination al Circuit Design Using QCA in VLSI Design	National Conference On Modern Trends in Physics (NCMTTP 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Susmita Karan	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Gsm Based Earth Fault & Over Voltage Detector	National Conference On Modern Trends in Physics (NCMTTP 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding

Susmita Karan	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Electronic Eye Based Security System	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Pallav Dutta	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Application of Power Electronics on Wind Turbine	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Sudhangshu Sarkar	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Blue Energy: Wave Energy Converter Using MATLAB	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Dibyendu Sur,	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Car Density Detection Technique Using Webcam and MATLAB	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Indrani sarkar	10 th International Conference on Mathematical Sciences for advancement in Science and Technolog	A Quantitative-Structure-Activity-Relationship (QSAR) Study of Anthracycline Analogues	Proceedings of IMBIC	ISBN 978-81-925832-4-2. 	Yes	Proceedings of IMBIC

		– An Anticancer Drug				
Indrani sarkar	Industry Interactive Innovation in Science Engineering and Technology (I3SET)	Methodologies Followed in Structure Based In-Silico Drug Design:	Springer, Networks	97898110-39522	Yes	Proceedings of IMBIC
Pijush Basak	10 th International Conference on Mathematical Sciences for advancement in Science and Technology	Monsoonal Rainfall of Gangetic West Bengal: Empirical Modelling and Forecasting	Proceedings of IMBIC	ISBN:978-81-925832-3-5	Yes	Proceedings of IMBIC
Bikash Panja	7 th International Conference on Materials Processing and Characterization (ICMPC-2017)	Study of MRR for EN47 Spring Steel in WEDM	7 th International Conference on Materials Processing and Characterization (ICMPC-2017)	https://doi.org/10.1016/j.matpr.2017.11.693	Yes	Conference Proceeding
Indrani Sarkar	TEQIP Sponsored National Conference on Modern Trends in Physics	Big Data Analytics Framework In Healthcare	TEQIP Sponsored National Conference on Modern Trends in Physics	ISBN:978-93-86675-29-3	Yes	Conference Proceeding

Indrani Sarkar	TEQIP sponsored International Conference on Industry Interactive Innovations in Science, Engineering and Technology	Computational methodologies followed in Structure based In-Silico Drug Design: An example	Industry Interactive Innovations in Science, Engineering and Technology	DOI: 10.1007/978-981-10-3953-9_55	Yes	Springer
Susmita Karan	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Preparation of poly vinyl alcohol cellulose nanocomposites using ionic liquid	National Conference On Modern Trends in Physics (NCMTP 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Indrani Sarkar	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Structure – based Drug Design: Nucleic Acid as anti-cancer drug target	National Conference On Modern Trends in Physics (NCMTP 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding
Sangita Roy	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	Role of several non-linear filters in image processing	National Conference on ELT for Management and Technology : Recent Trends (NCEMT 2017)	ISBN:978-93-86675-29-3	Yes	Conference Proceeding



Koushik Karmakar	IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET17)	MHRP: A Novel Mobility Handling Routing Protocol in Wireless Body Area Network.	IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET17)	DOI: 10.1109/WiSPNET.2017.8300099	Yes	IEEE Explorer
Saradindu Panda	DEVIC 2017	Design of Low Power 12-bit Magnitude Comparator	DEVIC 2017		Yes	IEEE Eds
Saradindu Panda	DEVIC 2017	Layered T Comparator Design using Quantum-dot Cellular Automata	DEVIC 2017		Yes	IEEE Eds
Saradindu Panda	DEVIC 2017	Design of Low Power 12-bit Magnitude Comparator	DEVIC 2017		Yes	IEEE Eds
Saradindu Panda	DEVIC 2017	Layered T Comparator Design using Quantum-dot Cellular Automata	DEVIC 2017		Yes	IEEE Eds
Dibyendu Sur	Fifth International Conference On Recent Trends In Information Technology (ICRTIT 2016))	Development Of Home Intruder Tracking System Using Face Recognition	Fifth International Conference On Recent Trends In Information Technology (ICRTIT 2016))	doi: 10.1109/ICRTIT.2016.7569546	Yes	Conference Proceeding
Saradindu panda	ICSEM 2016	Effect of nanoparticle size to improvement in absorption	ICSEM 2016	Attached	Yes	Conference Proceeding

		in Plasmonic solar cell				
Indrani Sarkar	TEQIP sponsored International Conference on Industry Interactive Innovations in Science, Engineering and Technology	Computational methodologies followed in Structure based In-Silico Drug Design: An example	Industry Interactive Innovations in Science, Engineering and Technology	DOI: 10.1007/978-981-10-3953-9_55	Yes	Springer
Piu Sarcar	Computational Advancement in Communication Circuits and Systems, Lecture Notes in Electrical Engineering' 15	Broadband Rectangular Microstrip Patch Antennas for K and EHF Bands	Computational Advancement in Communication Circuits and Systems, Lecture Notes in Electrical Engineering; 15	DOI 10.1007/978-81-322-2274-3_4		
Bansari Deb Majumder	10 th International conference on Sensing technology(ICST 2017)	Real time measurement of water level using admittance method and fuzzy based linearizer	10 th International conference on Sensing technology(ICST 2017)	ISBN: 9789383658381	Yes	Conference Proceeding
DR.Sara dindu panda	ICCECE 2016	Enhancement of optical absorption in Plasmonic thin film solar cell	ICCECE 2016	ISBN: 9789383658381	Yes	Conference Proceeding
DR.Sara dindu panda	ICCECE 2016	T-Gate: Concept of partial polarization	ICCECE 2016	ISBN: 9789383658381	Yes	Conference Proceeding

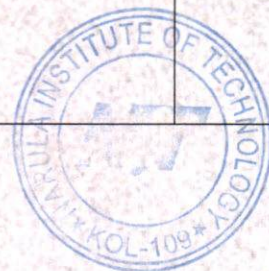
		in Quantum dot Cellular Automata				
Dr. Saradindu Panda	IJCA Proceedings on International Conference on Microelectronic Circuit and System	Effect of DNA-TiO ₂ Scaffold as Sensitizer Absorber in Dye Sensitized Solar Cell	IJCA Proceedings on International Conference on Microelectronic Circuit and System	https://research.ijcaonline.org/micro2017/number1/micro201628.pdf	Yes	Conference Proceeding
Moupali Roy	MICRO 2016	Design Aspects of Braille Display Board for Visually Disabled	MICRO 2016	978-93-80813-45-5	Yes	Conference Proceeding
Subhram Das	Industry Interactive Innovations in Science, Engineering and Technology, 18	Application of Chaos Game in Tri-Nucleotide Representation for the Comparison of Coding Sequences of β -Globin Gene	Industry Interactive Innovations in Science, Engineering and Technology, 18	DOI 10.1007/978-981-10-3953-9_54		
Sangita Roy	International Workshop on Machine Vision & Learning, Spring 2016	Dehazing Technique based on Dark Channel Prior model with Sky Masking and its quantitative analysis	International Workshop on Machine Vision & Learning, Spring 2016	NA	Yes	Conference Proceeding

Susmita Das	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	INVESTIGATION OF POWER GENERATION USING ERRATIC ENERGY SOURCES	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Arijita Das	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	MONITORING OF THE ECG SIGNAL TO DETECT MYOCARDIAL INFARCTION USING THE CONCEPT OF INTERNET OF THINGS	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Arijita Das	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	IOT BASED HOME AUTOMATION SYSTEM	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Susmita Das	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	OBSTRUCTION AVOIDANCE WITH AUTOMATED ROBOTIC MOVEMENT	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding



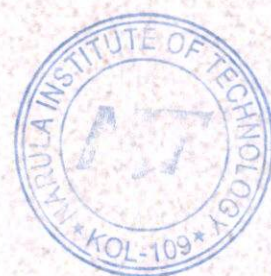
Susmita Das	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	AN ALTERNATE PROCESS TOWARDS AUTOMATIC LUGGAGE THEFT MONITORING & ALARM GENERATION USING LAB VIEW	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Dibyendu Sur	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Detection of Strangers by using PIR sensor	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Pallav Dutta	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	DESIGN AND DEVELOPMENT OF MINIATURE WIND TURBINE	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Dibyendu Sur	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	An Alternate Power Saving Method Using PIR Sensor	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding

Dibyendu Sur	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	A Review Report on Numerous Applications of Golden Ratio in the Fields of Science, Art and Technology	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Sandip Chanda	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	THREE ZONE DISTANCE PROTECTION OF MODERN POWER SYSTEM WITH TRANSMISSION LINE CONTINGENCY	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Pratyusha Biswas	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Application of a Programmable Logic Controller in an Autodrill operation	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Dibyendu Sur	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Automation towards the Control of Rail-Gates using LDR	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding



Dibyendu Sur	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	An Alternate Process towards Automatic Luggage Theft Monitoring & Alarm Generation using LabVIEW	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Dibyendu Sur	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	An Alternate Power Saving Method Using PIR Sensor	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Dibyendu Sur	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Detection of Strangers by using PIR sensor	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding
Dibyendu Sur	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	A Review Report on Numerous Applications of Golden Ratio in the Fields of Science, Art and Technology	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	ISBN: 9789383658381	Yes	Conference Proceeding

Bansari Deb Majumder	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Monitoring of the ECG signal to detect Myocardial Infarction using the concept of Internet of Things	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE- 2016)	ISBN: 9789383658 381	Yes	Conferenc e Proceeding
Susmita Das	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	Monitoring of the ECG signal to detect Myocardial Infarction using the concept of Internet of Things	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE- 2016)	ISBN: 9789383658 381	Yes	Conferenc e Proceeding
Bansari Deb Majumder	10 th International conference on Sensing technology(ICST 2017)	Real time measurement of water level using admittance method and fuzzy based linearizer	10 th International conference on Sensing technology(IC ST 2017)	ISBN: 9789383658 381	Yes	Conferenc e Proceeding
Bansari Deb Majumder	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)	IoT based Home Automation System	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE- 2016)	ISBN: 9789383658 381	Yes	Conferenc e Proceeding



Dibyendu Sur	Fifth International Conference On Recent Trends In Information Technology (ICRTIT 2016))	Development Of Home Intruder Tracking System Using Face Recognition	Fifth International Conference On Recent Trends In Information Technology (ICRTIT 2016))	doi: 10.1109/ICRTIT.2016.7569546	Yes	Conference Proceeding
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R & D Grant

Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/Non-Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds provided (INR in lakhs)	Duration of the project
Prof. Dr. Maitrayei Ray Kanjilal	World Bank (TEQIP)	Government	Institution	2016-2017	1,23,13,941	2016 to 2017
Dr. Tapan Kumar Mukherjee	DAE BRNS	Government	Basic Science & Humanities (Physics)	2016-2017	5,61,589	2014 to 2017
Dr. Tapan Kumar Mukherjee	CSIR	Government	Basic Science & Humanities (Physics)	2016-2017	2,65,920	2016 to 2017
Dr. Sumit Nandi	DST	Government	Basic Science & Humanities (Chemistry)	2016-2017	54,350	2016

Ph.D Details

Sl. No	Name	Dept	Ph.D Registered / Pursuing	University	Date Of Commence Of Ph.D	Name Of The Guide
1	Abhijit Ghosh	ECE	Enrolled	CU	2016	Dr. Anjan Kumar Kundu
2	Arkendu Mitra	EE	Enrolled	CU	2017	Dr. Sumana Chowdhuri
3	Shubhendu Banerjee	CSE	Enrolled	MAKAUT	2016	Dr. Rajib Bag



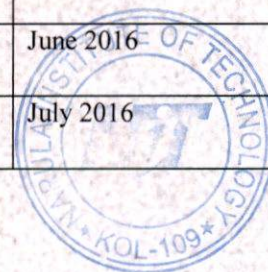
Chapter 7

Student Activities

Summer and winter training

Department	Name of the organization	Period
ME	Gun and Shell Factory, Cossipore	July, 2016
	Rifle Factory, Icchapur	July and December, 2016
	ISRO, Durgaur	
	DVC, Steel Thermal Power Plant, Andal, Durgapur	July, 2017
ECE	Automated Student Registration System at Globsyn	July 2016
	Java at Ardent Computech Pvt. Ltd.	July –August 2016
	VLSI design with VHDL at XESP	July –August 2016
	Automated Travel Management System at globsyn skills 2016	July 2016
	Microelectronics Technology and VLSI at adavpur University	July –August 2016
	JAVA 8 at ARDENT	July –August 2016
	Sequential control of three motors using at CETE,Kolkata	July –August 2016
	Signalling and Telecom at South Eastern Railway of INDIA	July 2016
CSE	Ardent Computech Pvt Ltd	(July –Aug) 2016
	Computer Society of India	(July –Aug) 2016
	Future Tech	(July –Aug) 2016
	Globsyn	(July –Aug) 2016
	HeadfasT computer science Academy	(July –Aug) 2016
	HEWLETT PACKARD	(July –Aug) 2016
	INDIAN SCHOOL OF ETHICAL HACKING	(July –Aug) 2016

	Micro Pro	(July –Aug) 2016
	RCPL	(June-August) 2016
	Web Tek Labs Pvt. Ltd	(July –Aug) 2016
CA	Ejob India	June 2017
	Globsyn	June 2017
	Ardent	June2017
	Ardent	June 2016
EE	Academy of industrial automation & technology	July 2016
	Aspirevision Tech Education Pvt. Ltd.	July 2016
	BSCL (Howrah)	July 2016
	C & W workshop Liluah Eastern Railway	July 2016
	CESE	July 2016
	DVC	July 2016
	Durgapur Steel Plant	December 2016
	Durgapur Thermal Power Station	July 2016
	Eastern Railway , Sealdah Div.	July 2016
	Electropair	July 2016
	Himadri chemicals & Industries Ltd.	June 2016
	Indian Railway	July 2016
	MSME Tools Room , Kolkata	July 2016
	NTPC Ltd.	June 2016
	Purulia Pump Storage	July 2016



	Centre for Electronics Test Engg. STQC, Kol	June 2016
	Rashtriya Ispat Nigam	July 2016
	Simplex Infrastructure	July 2016
	Steel Products Ltd.	July 2016
	The Phonex	December 2016
	Tripura State Electricity	July 2016
	Variable Energy Cyclotron centre	July 2016
	WBSEDVL	July 2016
ME	Gun and Shell Factory, Cossipore	July, 2016
	Rifle Factory, Ichchapur	July and December, 2016
	ISRO, Durgaur	June 2017
	DVC, Steel Thermal Power Plant, Andal, Durgapur	June, 2017
EIE	DVC	July 2017
	IOCL	July 2017
	BSNL	July 2017
	WBSEDCL	July 2017
	Prolific	July 2017
	WBSEDCL	July 2016
	Farakka, NTPC	July 2016
	ESL	July 2016
	ERTL	July 2016
	MSME	July 2016
	Calcutta metro	July 2016
	Globsyn	July 2016

	Webel	July 2016
CE	PWD Barrackpur	July 2016
	Rvnl	July 2016
	Pwd	July 2016
	PWD Barrackpur	June 2017
	South Eastern Cold Field LTD	June 2017
	PWD Coachbihar, Tista Bridge Construction	June 2017
	RVNL	December 2016
	KMDA	December 2016
	Coal India	December 2016
	CCCL	December 2016
BA	Punjab National Bank	2017 (6 Weeks)
	UCO Bank	2017 (6 Weeks)
	Albert David	2017 (6 Weeks)
	Big Bazar	2017 (6 Weeks)

Student Achievements

Name	Name of department	Student's Achievement/Awards/GATE/M.Tech/Ph.D PURSUING	Date
Sajan Saha	EE	Gold Medalist of NPTEL Exam for Basic Electronics	2016
Oindrila Saha	EE	Gold Medalist of NPTEL Exam for Basic Electronics	2016
Jishan Chowdhury	EE	State Level Champion in Table Tennis	2016
Souvik Das	EE	State Level Champion in Football	2016

Abeg Saha	EE	Master in supply chain Management at St. Xaviers	2016
Shailesh Kumar	EE	PGDC in power plant engineering at national power training institute	2016
Sajan Saha	EE	2% Topper of NPTEL Exam for Control Engineering and Power System	2017
Oindrila Saha	EE	2% Topper of NPTEL Exam for Control Engineering and Power System	2017
PROMILA DAS	EE	M.TECH – Narula Institute of Technology	2017
SAYAN DAS	EE	M.TECH IN APPLIED PHYSICS DEPARTMENT- CALCUTTA UNIVERSITY	2017
BITAN SAHA	EE	SELECTED BY GRE MARKS- 322 YET TO GO TO German University.	2017
Subhendu Choudhury	CE	2 nd runner up in Long Jump competition in college level	
1. Soumyojit Ghosh 2. Swaswata Bhattacharya 3. Samir Modak 4. Rahul Banik 5. Agnik Bhattacharya 6. Rahul ray 7. Rahit ray 8. Shantanu Meta 9. Debasish Basak	DCE	Runner up in cricket tournament in Narula institute of technology	
Isita Chakraborty	CE	Awarded in Utkarsh Bangla 2016 organized by Technical Education and Training Department, West Bengal	
Sumit Jha	ECE	NASSCOM eSummit	

Upasana Mitra	ECE	1st runner up position in Miss India 2016 (Eastern India) contest	2016
Dip Dey	CA	Participated in stage play Theatre Festival organized by the Bhawanipur Education Society of Commerce	27 th Feb'20 17
Megha Sardar	CA	1st Position in Jis Fest fashion show	
Subhendu Bhattacharjee, Rohan Mukherjee	CA	Participant at Mtv Colors of Youth	25 th Jan'20 17
Rinky saha, madhurima sarma Sarkar, megha sardar, ipshita guha ray and sougata sengupta-	CA	Tug of war 1st position in annual athletic meet 2017	2017
Megha Sardar	CA	Winnner at t2 fest fashion show	
Ipshita Guha Ray, Shilpi Mukherjee, Jhili Das, Shadab Khan, Sutrina Chakraborty, Rinky Saha, Prity Paul / Ankita	CA	3rd position in Novadaya- Inter college dance competition	
Madhurima Sarma Sarkar	CA	Miss spectacular eye at miss khadi india fashion show competition	2017
Nivedita Jamuar	CA	Singing Competition	2017
Ankit	MCA	completed short-term course on DEEP LEARNING and APPLICATIONS and got certificate from the INDIAN INSTITUTE OF TECHNOLOGY, KANPUR	Jan 2017

Ankit	MCA	Participated in the chess competition 2017, organized by Narula Institute of Technology. Departmental chess champion and 1st runner-up in the college.	
Sanjit Prasad, Mohammad Shahbaz	ME	Participated in Project Fair on Chemical Phenomenon & Waste Recycling organized by Department of Basic Science and Humanities (Mathematics), Narula Institute of Technology.	May 2016
Sanjit Prasad	ME	Participated in National Seminar on Application of Mathematics in Technology and Management (NSAMTM 2016) organized by Department of Basic Science and Humanities (Mathematics), Narula Institute of Technology.	Sept 2016.
Sanjit Prasad	ME	Participated in 3-Day Entrepreneurship Awareness Camp (DST-NIMAT PROJECT 2016-17) conducted by Enterprise Development Institute, Kolkata, under the aegis of The National Science & Technology Enterprise Development Board, DST, Govt. of India at Narula Institute of Technology.	Nov 2016.
Pritam	ME	Selected for Educational trip to Bangkok, Thailand (AIT)	Feb 2017
Sanjit Prasad, Mohammad Shahbaz	ME	Participated in 2 nd . Indian Engineering Olympiad (IEO) exam.	Feb 2017.
Subhojit Ghosh	ME	Received NIT Jewel Award.	May 2017
Bikram Mondal	BA	Successfully completed the NPTEL course on "Introduction to Psychology"	Dec 2017
Madhumita Maity	BA	Successfully completed the NPTEL course on "Introduction to Psychology"	Dec, 2017
Paramita Chowdhury	BA	1 st in the Drawing Competition organized by Club Gravatron in JISU	Nov 2017

Simran Gupta	BA	3 rd in the Drawing Competition organized by Club Gravitron in JISU	Nov 2017
Ispita Chakraborty	BA	5 th in the Drawing Competition organized by Club Gravitron , JISU	Nov 2017

TOEFEL

Name of Department	Name of Student	Name of Exam Cleared
ECE	Rajesh Kumar Jha	GATE
	Sumit Jha	CAT/MAT
	Khusbu Shaw	CAT/MAT
	Satyendra Kr Pandit	GATE
	Debadyuti Pal	GATE
	Sushil Mahato	GATE
	Shilpa Das	GATE
	Shikha Rai	GATE
	Abhisek Juneja	GATE
	Amrita Halder	GATE
	Soham Bhattacharyya	GRE
	Babai Samanta	GATE
	Aman Bogi	GATE
	Antareep Neogi	GATE
	Saptarshi Basak	GATE
	Soumantika Kundu	GATE
CSE	Reshmi Sarkar	TOEFEL
	Soumyajit Chakraborty	TOEFEL
	Soumyajit Chakraborty	GATE
	Ishita Das	GATE

EE	Bitan Saha	GRE
CE	Sourav Ghosh	GATE
	Shaban Akhtar	GATE
	Abhishek Majee	GATE
	Totan Sarkar	GATE
	Mrinal Bhaumik	GATE

INDUSTRY VISIT (JULY 2016 TO JUNE 2017)

Department	Name of the organization	Period
EE, 2 nd Year, B.Tech	Kacharapara Railway workshop	16, 17, 18 th March 2017
EE, 3 rd Year, B.Tech	HPCL	22 ND Feb 2017
EIE	SUPER HEAT TREATMENT PLANT(2014-2018)	3 rd May, 2017
CSE	TCS Innovation Lab	March'17
	PCS Global	Feb'17

Student's Publications

Sl.No.	Department	Paper Name	Student name	Faculty Mentor	Details
1	CSE	Binary expansion based denoising algorithm for an image corrupted by Gaussian noise	Arijit Taraphdar	Shubhendu Banerjee	Journal CSI transactions on ICT, vol. 5, issue 1
		Student Sentiment & Environmental Impact A Literature Review	Chhanda Roy	Mr. Jayanta Pal	

2	EIE	DC motor movement controlled by gesture orientation using ARDUINO", August, ICEICE 2016, Kolkata.	Mugdha Mondal	Arijita Das, Bansari Deb Majumder, Dibyendu Sur, Susmita Das	August, ICEICE 2016, Kolkata.
		The role of the mathematics behind football science and technology	Yekta Roy	Bansari Deb Majumder	8-9 th September, Narula Institute of Technology, 2016
		Development of Aruino Uno and GSM based Home Automation System	Saikat Biswas, Mainak Krishna Singha	Bansari Deb Majumder	National Conference on Advanced computation in Electronics and remote sensing, 19th -20th August 2016, Narula Institute of Technology, 2016.
3	ECE	Average Power Consumption and Delay Analysis of 4 Bit Rotate Right Network using MOS Transistor at Channel Length of 45nm,	Arup Kishore Debnath	Mr. Surajit Bari	NCACERS, NiT, Kolkata
		Mathematical Modelling of Image Formation through Atmosphere	Mainak Hore	Sangita Roy	NSAMTM2016, 8 TH -9 TH September 2016
		WEATHER DEGRADED IMAGE RECOVERY WITH IDCP	Mainak Hore, Sourav Kumar Datta,	Sangita Roy	All India Seminar on Emerging Trends in Telecommunication, 21 st -22 nd September 2016
	ECE	Modeling of Satellite Antenna using HFSS	Mainak Hore, Sourav Kumar Datta	Sangita Roy	IC2A2SE2016 – 4 th -6 th October 2016

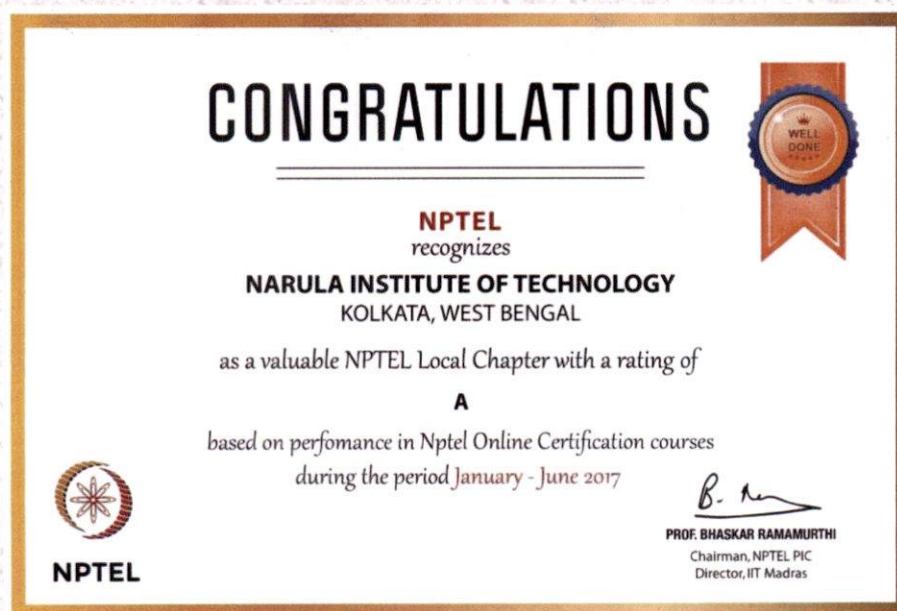
		Removal of the artifacts present in the existing dehazing techniques	Debasmita Roy, Sriparna Banerjee	Sangita Roy	IC2A2SE2016 – 4 th -6 th October 2016,
		Design and simulation of OPAMP Based R-2R Ladder Type 4 bit Digital to Analog converter (DAC) using 90 nm CMOS Technology	Subhajit Shaw	Swati Barui, Arnima Das, Puspak Pain, Soumen Pal	IC2A2SE2016 – 4 th -6 th October 2016
4		Study on the effect of Mineral Admixers in Self Compacting Concrete	Koustav Das, Subhojit Chattaraj	Dr. Biman Mukherjee	International Research Journal of Engineering and Technology ISSN/ISBN No 2395-0056
	CE	An overview on the Development and Research Work on Self Compacting Concrete	Subhojit Chattaraj, Bipul Goswami	Dr. Biman Mukherjee	International Research Journal of Engineering and Technology ISSN/ISBN No 2395-0072
5		Optimization of Average Packet Drop Time in CRN Using DE Algorithm	Gangotri Ghosh Sandip Kumar Abhijit Prasad	Subhasree Bhattacharjee	International Conference of Advanced Computing (ICAC-2016). 26th - 27th October, 2016.
	CA	Optimization of average packet drop time in a distributed cognitive radio network using genetic algorithm	Shewta Chanda	Subhasree Bhattacharjee	Advancement in Applied Science and Engineering (IC2A2SE-2016) during 4-6 October, 2016

6		Microcontroller based water level indicator & control	Saumya Das	Pratyusha Biswas Deb	National Conference on ELT of Management and Technology : Recent Trends (NCEMT2017)
		Contact less RPM measurement using microcontroller	Saumya Das,	Pratyusha Biswas Deb	National Conference on ELT of Management and Technology : Recent Trends (NCEMT2017)
		Solar Power generation System with Seven Level inverter	Susmita ,Saumya Das	Pratyusha Biswas Deb	National conference on Modern Trends in Physics (NCMTP2017)
	EE	Matlab Based Analysis of DC Motor	Srija Chakraborty, Saumya Das	Pratyusha Biswas deb	National conference on Modern Trends in Physics (NCMTP2017)
		Application of a Programmable Logic Controller in an Autodrill operation	Sajan Saha, Oindrila Saha,	Pratyusha Biswas deb, Sudhangshu Sarkar	International Conference on computational Advancement in Applied Science and Engineering (IC2A2SE-2016)
		Contactless speed monitoring and displaying Page No.876	Saumya Das,	Pratyusha Biswas Deb, Arkendu Mitra	International Research Journal of Engineering and Technology(IRJET) volume03 Issue:12/Dec-2016
7	BS & HU	ICT Application for Technology, English Communication and Verbal ability.	Paramita Chowdhury (CSE)	Rajasi Ray	Proceedings of TEQIP sponsored National Conference on Management and Technology : Recent Trends (NCEMT 2017 ISBN: 978-93-86675-14-9)

Additional Online Programmes

NPTEL

The National Programme on Technology Enhanced Learning (NPTEL), a project funded by the Ministry of Human Resource Development (MHRD) was first conceived in 1999 to pave the way for introducing multimedia and web technology to enhance learning of basic science and engineering concepts. Significant infrastructure has been set up earlier for production of video-based teaching material by the Indian Institutes of Technology (IIT) and Technical Teacher Training Institutes (TTTI). In the first phase of the NPTEL project (June 2003-June 2007), seven IITs and the Indian Institute of Science (IISc) have worked together to develop web and video based material for basic undergraduate science and engineering courses in order to enhance the reach and quality of technical education in the country.



Rating of NPTEL Local Chapters : AAA - Ranks 1 to 10; AA - Ranks 11 to 50; A - Ranks 51 to 100

Narula Institute of Technology had applied for NPTEL Local Chapter and the same was approved on 13th July, 2016.

For the session from July- December, 2016, three students had opted for the online examination.

Two students, Sajjan Saha and Oindrila Saha, from Electrical Engineering Department secured 90% in the exam. Sajjan Saha was a gold medal winner for his outstanding performance. While Ria Nath scored 60%.

The total enrollment for session January- June, 2017 was around two thousand five hundred (2500),

among which one hundred seven candidates (107) were successfully certified.

Four faculty members received Mentorship certificates. Them being Mr. Subhram Das

(CSE Dept.), Ms. Subhra Mukherjee (EE Dept.), Mr. Abhijit Ghosh (ECE Dept.) and Ms. Sandhya Pattayanayak (ECE Dept.)

IIRS Outreach Program Report: Under ISRO

About: IIRS Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation

(ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics and GNSS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia. IIRS also conducts e-learning programme on Remote Sensing and Geoinformation Science

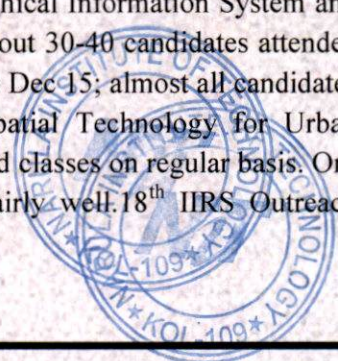
Learner Centric e-learning Courses: On mission for transforming technology capacity building and research.

Live Interactive Course: Strengthening academic user segment using on-line learning process.

Focuses on strengthening the Academia & user segments in space technology & its application using On-line learning platform.

In these program, the two mode of content delivery systems developed using on-line learning platform i.e. Line & interactive mode (EDUSAT) & e-learning mode.

15th IIRS Outreach Programme on 'Basics of "Remote Sensing, Geographical Information System and Global Navigation Satellite System' held on Aug 10 – Nov 27, 2015. About 30-40 candidates attended classes on regular basis. On-line test on Mod-I & II held during Nov 15 & Dec 15; almost all candidates performed reasonably well. 16th IIRS Outreach Programme on 'Geospatial Technology for Urban Planning' held during Feb 11 – Mar 15, 2016. About 20 candidates attended classes on regular basis. On-line test on was held on Mar 15; almost all candidates performed fairly well. 18th IIRS Outreach



Programme on Basics of “Remote Sensing, Geographical Information System and Global Navigation Satellite System” held during August 22 – November 18, 2016. About 30-40 candidates attend classes on regular basis. On-line test on Mod-I, II & III was held on Oct 16, Nov 16 & Dec 16; about 60% candidates performed reasonably well.

19th IIRS Outreach Programme on Basics of ‘Remote Sensing & Geographical Information in Carbon Forestry’ held during Feb 16 – Mar 16, 2017. About 20 candidates attend classes on regular basis. On-line test held in Mar 17; almost all candidates performed reasonably well.

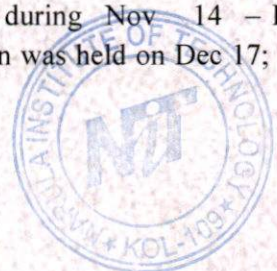
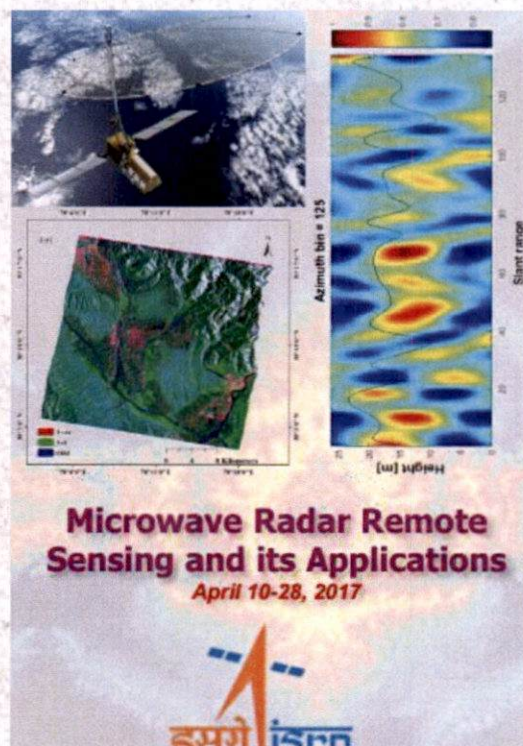
20th IIRS Outreach Programme on ‘Basics of ‘Microwave Radar Remote Sensing and its Applications’ held during Apr 10 – Apr 28, 2017. About 30-40 candidates attended classes on regular basis. On-line test was held in May; about 50% of 1 candidates performed reasonably well.

21st IIRS Outreach Programme on ‘Remote Sensing & Geographical Information System Applications in Water Resource Management’ held during May 22 – Jun 9, 2017. About 10 candidates attended classes on regular basis. On-line test on Jun 17; all candidates performed extremely well.

23rd IIRS Outreach Programme on ‘Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System’ was held August 21 – December 1, 2017. About 20 candidates attended classes on regular basis. On-line test on Mod-I & II was held on Oct 17 & Dec 17; almost 50% candidates performed reasonably well.

24th IIRS Outreach Programme on ‘Basics of Remote Sensing and Digital Analysis System’ was held during August 21 – September 15, 2017. About 10 candidates attended classes on regular basis. On-line test was held on Nov 17; about 60% candidates performed reasonably well.

26th IIRS Outreach Programme on ‘RIS & GIS Application’ held during Nov 14 – Dec, 2017. About 10 candidates attend classes on regular basis. On-line test was held on Dec 17; almost 50% candidates performed well.



Chapter 8 Placements

Overview

Training and Placement Cell is a core area in an Engineering College which compliments the efforts of the members of faculty by organizing value-added programmes and providing placement opportunities to students. The cell continuously coordinates with the various industries and organizations for placement of the students. It liaises with the Corporate sectors and helps in developing the industry-academic inter-relationship. The Cell organizes certain orientation programmes, grooming sessions, mock interviews for students of each stream. Besides, the Cell organizes various summer internship programmes for students to provide them with hands-on experience and introducing them to match the professional environment. Keeping in view the requirements of industry, the Cell also takes initiative to arrange regular inter-active workshops, seminars and short-term courses with active participation of academia and industry. It also takes initiative to develop the soft skills (Aptitude, HR, GD, PI etc) within students to make them feel comfortable in interviews and thus make them better employable. The Cell ensures that Career Development Programmes are also conducted on a regular basis for value added programmes. It also organizes industry-oriented special summer / winter courses in collaboration with reputed Corporate industries.

CAREER COUNCELLING PROGRAMMES

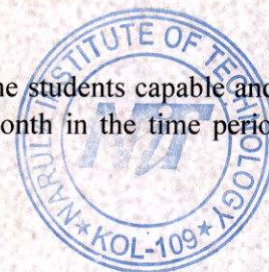
The Institute aims at enlightening the students in the process of choosing the appropriate area of development of their career. Specifically the stages of growth and exploration must be emphasized by making it possible for them to gain knowledge about their future choice depending on their abilities, interests and needs. The following career counseling programs have been arranged by the Institute:-

1. Training on Aptitude & Verbal & Non Verbal Reasoning Test

A training session has been conducted on aptitude, verbal & non-verbal reasoning tests of different campus recruitment drives of various companies. The sessions aimed at the strengthening of logical aptitude and reasoning capabilities of the students which enriches them with knowledge, promptness and confidence. The sessions have been conducted on monthly basis starting from 03.08.2016 to 11.12.2016. The Total number of students enrolled to the training session was 2231. The sessions have been conducted by Mr. Tapas Mukherjee, renowned Aptitude trainer at the national level and Dr. Nikhilesh Sil, Dept. of BS & HU, Narula Institute of Technology.

2. Mock Interview Sessions

The Institute arranges mock interview sessions every year for making the students capable and confident about the recruitment drives. This session was conducted once in a month in the time period between



12.08.2016 to 14.12.2016. The resource persons were Prof. Sharmistha Basu, Asst. Professor, Narula Institute of Technology and Mr. R.R. Rajguru, GM Training, JIS Group of Educational Initiatives. Around 1918 participants attended this program.

3. Mock Test Sessions on Aptitude Training & Verbal & Non Verbal Reasoning

Like every year, this year also Mock Test Sessions on Aptitude Training & Verbal & Non Verbal Reasoning have been arranged by the Institute for enriching the logical and soft skill of the students. The basic aim of such sessions is to develop the technical ability and promptness by practicing test sessions. The tests have been taken by the students on monthly basis in the period between 17.08.2016-16.12.2016. The total number of students benefitted from this scheme was 1779. The training was conducted by a vendor namely Identity Training services Pvt. Ltd.

4. Mock Test Packages of various Companies for practice before placement drive

The sessions for Technical Training & Test Packages of different Companies have been arranged by the institute during 28.08.2016 to 31.04.2017. The total number of students who attended the sessions were 1788. These sessions have been conducted by two external vendors named MyPerfectice and Co-Cubes. These preparative venture have aimed at the enhancement of the technical knowledge and the required skill set of the students which aims to help in achieving success in recruitment interview.

5. Preplacement 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, Persistent, Genpact, Wipro, Simplex Infrastructure ITC Infotech, Vastu Vihar Ltd, Indian Navy Asahi India Glass Ltd, Subex, Think & Learn Pvt. Ltd, Hitachi Consulting Software Services India Pvt. Ltd, Capgemini, Poornam, Xpanxion (UST Global), ITC hotels visited our college in the year of 2016-2017. These talks were organized centrally by the Training and Placement cell of the institute. The resource persons of these events were the concerned dignitaries of the companies.

6. How to Build Apps/Software using Advanced JAVA

A hand on session on the topic "How to Build Apps/Software using Advanced JAVA" has been arranged on 18.05.2016. Prof. Soumya Bhattacharya, Assistant Professor, IT department conducted the session and taught the attendees about the technique of app development. 263 students have attended the session.

7. Panel Discussion on Application of AI in real life

A Panel Discussion on Application of AI in real life has been arranged by the institute on 13.09.2016. The speaker, Prof. Ananya Banerjee, Assistant Professor, department of CSE, has delivered an in-depth analysis on the real life application of artificial intelligence which is much relevant in current scenario of digital world. The total number of students who attended the session was 565. The session enlightened the attendees with the knowledge of real life scenario and research opportunities in AI.

8. Workshop on AutoCad Drawing Tools

A Workshop on AutoCad Drawing Tools has been arranged by the institute on 21.12.2016 for enhancement of the skill of the students. A total of 154 students have attended the programme. The hands on session have been very interactive. The speaker, Prof. AbhipriyoHalder, Assistant Professor, CE department, has very clearly demonstrated the tools and the features to the students.

9. Hands On Practice Session on Automobile Sector (Solid Wax)

A one day Hands On Practice Session on Automobile Sector (Solid Wax) has been arranged on 11.08.2016 for the skill enhancement of the students. The speaker of the session was Prof..PratyushaBiswas Deb, Assistant Professor, EE department. 92 students have attended the session.

10. Seminar on Implementation of SMART GRID Systems in Industry

A Seminar on Implementation of SMART GRID Systems in Industry has been arranged for the students on 15.07.2016. The speaker, Prof. DipuMistry, Assistant Professor, EE department, clearly explained the nukes and corners of the process to the students which helped in enhancement of the skills and the insight of the students. 71 students from the relevant departments attended the session.

11. Seminar on Roads Software like MXRoad

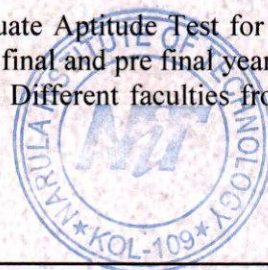
A Seminar on the topic "Roads Software like MXRoad" has been arranged on 18.08.2016 for the skill enhancement of the students. The seminar aimed at providing the students an insight into the State of the art software in the field. Prof. Rajkumar Banerjee, Assistant Professor, department of CE, was the speaker. He enlightened the attendees with the words of wisdom and short hands on session. The number of the students who attended the program was 63.

Training for Competitive Examinations during 2016-2017

The main purpose of the training programs for competitive examination is to encourage students to take part in different competitive examination (GATE, GRE etc.)It also helps creating awareness about different types of competitive examinations available for the students. This type of training program helps a student to face challenges in any higher studies exam. The details of such programs, arranged in this year, are as follows.

1.Training class for competitive exam GATE

To acquire the skill set of solving different problem for GATE (Graduate Aptitude Test for Engineers), Narula Institute of Technology has organized training classes for all the final and pre final year students of all departments throughout the whole semester (August to December). Different faculties from different



department used to conduct this training classes.

2. Training class for competitive exam GRE

The GRE test is one of the most widely accepted graduate admission exams, particularly in the United States and English-speaking countries such as Canada and Australia. Narula Institute of Technology has organized training classes of GRE for all the final and pre final year students of all departments on 02.11.2016. Resource person was Ms. LeenaBhaduri, Dept of BS & HU, Narula Institute of Technology. 27 students have attended this class.

3. Training class for competitive exam UPSC/IES

To give their best in any Govt. exam or in any administrative jobs, Narula Institute of Technology has organized training classes for the preparation of UPSC/IES, for all the final and pre final year students of all departments on 13.02.2017. Resource person was Mr. Soumya Bhattacharya, Dept. of IT, Narula Institute of Technology. Total number of attendance was 31.

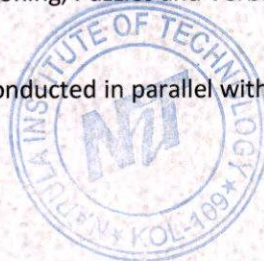
4. Training class for competitive exam IELTS

The IELTS Academic test is suitable for those wanting to study in an English-speaking environment or university (higher education). Narula Institute of Technology has organized training classes for the preparation of IELTS for all the final and pre final year students of all departments on 29.03.2017 with 19 students, resource person was Ms. LeenaBhaduri, dept of BS & HU, Narula Institute of Technology

Training Snapshot:

Professionally qualified personnel are actively involved in delivering up-to-date training curricula to enable our students to face the competition with greater degree of confidence & conviction. Thus, it would promote better selection by recruiters visiting our institute.

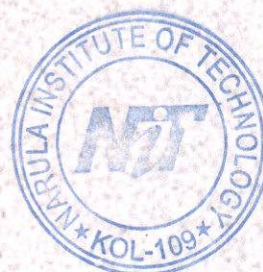
- ✓ Aptitude Training: These classes refresh the fundamental areas of mathematics and logic of the students and cover areas like – Quantitative ability, Logical reasoning, Puzzles and Verbal ability.
- ✓ Personality Development Classes: These classes are conducted in parallel with the aptitude sessions and provide rigorous training in the soft skills area.



- ✓ Technical Training Sessions: As a part of our training efforts, we conduct surveys from time to time among corporate to understand the technological up gradations taking place. We figure out the most appropriate technologies and provide the required training based on these inputs.
- ✓ Pre placement training programs such as mock group discussions, mock interviews are conducted by our faculties & industry professionals at college itself.
- ✓ Apart from the above mentioned activities we also conducted Online Assessment Test through Cocubes, Aspiring Minds, Constellation etc.
- ✓ Beyond the Curriculum Training for 2nd & 3rd year students by the in-house faculty members & external training vendors.

PLACEMENT RECORD FOR OUTGOING 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
699	597	85.41	9	44

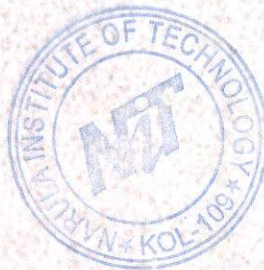


8.3 Faculty Orientation Programme

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



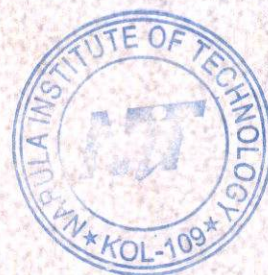
Objectives of the Programme

- To make the participants 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 conceptualise 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

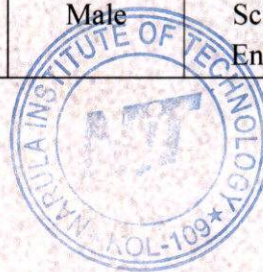
- Discussion on Faculty improvement - continued research
- Scope of Consultancy

Resource Persons

Sl No.	Name	Department
1	Prof. J. K. Das	Electronics and Communication Engineering, NiT
3	Prof. S. C. Bera	Mechanical Engineering, NiT
4	Prof. Biman Mukherjee	Civil Engineering, NiT
5	Dr. S. Panda	Electronics and Communication Engineering, NiT

List of Registered Participants

Sl No.	Faculty Name	Designation	Gender	Department
1	Arghya Gupta	Assistant Professor	Male	Mechanical Engineering
2	Goutam Roy	Assistant Professor	Male	Mechanical Engineering
3	Ritam Mukherjee	Assistant Professor	Female	Civil Engineering
4	Rahul Das Biswas	Associate Professor	Male	Civil Engineering
5	Anasuya Mandal	Assistant Professor	Female	Civil Engineering
6	Sumanta Kundu	Assistant Professor	Male	Electrical Engineering
7	Kunal Das	Assistant Professor	Male	Computer Science and Engineering
8	Sangita Bhattacharya	Associate Professor	Female	Computer Science and Engineering
9	Arijit Taraphdar	Assistant Professor	Male	Computer Science and Engineering
10	Sayantan Nath	Assistant Professor	Male	Computer Science and Engineering
11	Arup Sarkar	Assistant Professor	Male	Computer Science and Engineering
12	Biswajit Halder	Assistant Professor	Male	Computer Science and Engineering



Some Glimpses of the Event



Professional Development Program

In academic year 2016 – 2017, Narula Institute of Technology has organised different types of programmes like Faculty Development Programmes (FDP), Workshops, Hands on Session, Short Term Training Programme (STTP), Short Term Course, Staff Development Programme, Conference and National Seminar. 10 numbers of FDPs have been organised by Institute where internal faculties from different department as well as faculty members from other colleges also taken active participation. Overall 408 participants including many renowned delegates have made these FDPs successful. This year total 28 number of Workshops have been organised by Institute and collectively more than 2321 participants have taken active participation. 4 STTPs have also been arranged with average 40 numbers of participants were present. Narula Institute of Technology has also arranged 2 Hands on sessions. In the month of March one Short Term Course has been organised. 2 SDPs have also been organised for staff members of the Institute. 4 National Conference and 1 national seminar have been organised in this academic year where many participants have taken active participation. Moreover many renowned delegates made these programmes successful.

Type of program	Title	Organized by	Duration	No of participants
FDP	Faculty Development Program on IoT and its Application	Narula Intitute of Technology	08-05-2017 - 12-05-2017	38
	FDP on Data Science & Advanced Analytics using Statistica	Narula Intitute of Technology	14-03-2017 - 18-03-2017	40
	Faculty Development Program on Data Science & Advanced Analytics using Statistica	Narula Intitute of Technology	14-03-2017 - 18-03-2017	40
	FDP on Different aspects of Non Conventional Energy Resources	Narula Intitute of Technology	18-02-2017 - 22-02-2017	34

	FDP on "CURRENT TRENDS & FUTURE IN RENEWABLE ENERGY RESOURCES"	Narula Intitute of Technology	19.12.2016 - 23.12.2016	22
	FDP on "Modern Trends in Communication & Circuit Design (MTCCD-2016)"	Narula Intitute of Technology	17-10-2016 - 21-10-2016	50
	FDP on Modern Trends in Communication and Circuit Design	Narula Intitute of Technology	17-10-2016 - 21-10-2016	45
	One-week Faculty Development Program on "Advancement in manufacturing Technology"	Narula Intitute of Technology	11-07-2016 - 16-07-2016	30
	One week faculty development programme on Modern Trends in Teaching and Research Methodology	Narula Intitute of Technology	18-07-2016 - 23-07-2016	60
	Java Programming and Android	Narula Intitute of Technology	13-03-2017 - 18-03-2017	31
Workshop	Workshop on Block chain Technology	Narula Intitute of Technology	03-06-2017 - 04-06-2017	40
	Two days Workshop on "Composite Materials & Application"	Narula Intitute of Technology	24-05-2017 - 25-05-2017	30
	Three days Workshop on "Laser Cutting System"	Narula Intitute of Technology	03-04-2017 - 05-04-201	48
	Three days workshop on "Principal of Water Resources Engineering & Rain water harvesting"	Narula Intitute of Technology	24-04-2017 - 26-04-2017	51
	A Workshop on "RECENT TRENDS ON AUTOMATION"	Narula Intitute of Technology	18-04-2017 - 22-04-2017	65
	Workshop on ICT: Current Trends and Future Perspective	Narula Intitute of Technology	01-04-2017 - 02-04-2017	40
	Workshop on Data Science	Narula Intitute of Technology	27-04-2017- 28-04-2018	36
	A Workshop on "RECENT TRENDS ON AUTOMATION"	Narula Intitute of Technology	18-04-2017 - 22-04-2017	35
	Workshop on "PCB Layout Design"	Narula Intitute of Technology	14-03-2017 - 18-03-2017	45
	Two-day National Workshop on "Recent Trends in Mechanical Engineering"	Narula Intitute of Technology	24-02-2017 - 25-02-2017	35
	Two days workshop on "Building Construction including design criteria"	Narula Intitute of Technology	06-02-2017 - 07-02-2017	48
	Two-day National Workshop on "Recent Trends in Mechanical Engineering"	Narula Intitute of Technology	24-02-2017 - 25-02-2017	80



	Workshop on IoT & its Deployment in Cloud	Narula Intitute of Technology	15-02-2017 - 16-02-2017	45
	2days workshop on "Embedded System Design using ARM CM3", phase II	Narula Intitute of Technology	09-01-2017 - 11-01-2017	20
	2days workshop on "Embedded System Design using ARM CM3", phase I	Narula Intitute of Technology	12-12-2016 - 14-12-2016	20
	Workshop on Object oriented programming	Narula Intitute of Technology	16-12-2016	25
	Workshop on "Embedded System Security"	Narula Intitute of Technology	06-12-2016 - 10-12-2016	30
	One day Workshop on "OOPS Concepts using C++"	Narula Intitute of Technology	04-10-2016	33
	Workshop on Python Programming and Digital Marketing	Narula Intitute of Technology	21-10-2016 - 22-10-2016	45
	Three days workshop on "Design & Estimation of Check dam construction"	Narula Intitute of Technology	19-09-2016 - 21-09-2016	48
	Three days' workshop on Coal Based Thermal power plant	Narula Intitute of Technology	06-09-2016 - 08-09-2016	40
	Workshop on "Recent Trend in Biomedical Engineering and IT"	Narula Intitute of Technology	08-08-2016 - 11-08-2016	35
	Two days workshop on "Soil Mechanics& Foundation Engineering"	Narula Intitute of Technology	18-08-2016 - 19-08-2016	48
	Workshop on Research in Computer, Communication & Technology	Narula Intitute of Technology	11-08-2016 - 12-08-2016	35
	Workshop on Big Data Analytics	Narula Intitute of Technology	02-08-2016 - 03-08-2016	37
	Two days workshop on Energy Internet Platform for Transactive Energy Applications	Narula Intitute of Technology	08-07-2016 - 09-07-2016	40
	Workshop on AI	Narula Intitute of Technology	27-07-2016	25
	"Recent advancements in computer aided design with AUTOCAD"	Narula Intitute of Technology	31-01-2017 - 11-02-2017	100
Hands on Session	Hands on Tranining on Cloud Computing and Its Application	Narula Intitute of Technology	06-04-2017 - 07-04-2017	38
STTP	STTP ON PROTECTION AND SWITCHGEAR	Narula Intitute of Technology	17-04-2017 - 19-04-2017	42
	Three days STTP on "Effective Teching in Mechanical Engineering"	Narula Intitute of Technology	01-11-2016 - 03-11-2016	30

	sttp on Pulse width techniques for voltage source inverters	Narula Intitute of Technology	10-11-2016 - 12-11-2016	41
	3 days sttp in Advances in UHV transmission and Distribution	Narula Intitute of Technology	05-09-2016 - 07-09-2016	41
Short term course	“Quality Assurance Parameters of NBA” [TEQIP-1.1 PHASE: II]	Narula Intitute of Technology	06-03-2017 -10-03-2017	55
Conference	National Conference on Advance Computing, Communication and Devices' 2017(NCACCD-2017)	Narula Intitute of Technology	16-03-2017 - 17-03-2017	85
	National Conference on Modern Trends in Physics (NCMTP 2017)	Narula Intitute of Technology	10-03-2017 - 11-03-2017	75
	National Conference on ELT for Management and Technology (NCEMT 2017)	Narula Intitute of Technology	27-02-2017 - 28-02-2017	80
	National Conference on "Advanced Computation in Electronics & Remote Sensing (NCACERS-2016)"	Narula Intitute of Technology	19-08-2016 - 20-08-2016	175
SDP	Staff Development Programme on Professional Competence	Narula Intitute of Technology	13-02-2017 - 18-02-2017	40
	One week Staff Development Programme	Narula Intitute of Technology	19-09-2016 - 24-09-2016	50



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 2016-17



ORGANIZATIONAL STRUCTURE OF NARULA INSTITUTE OF TECHNOLOGY

