

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR



INFORMATION BROCHURE 2021-2022



NATIONAL INSTITUTE OF TECHNOLOGY
DURGAPUR



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MESSAGE FROM CHAIRPERSON

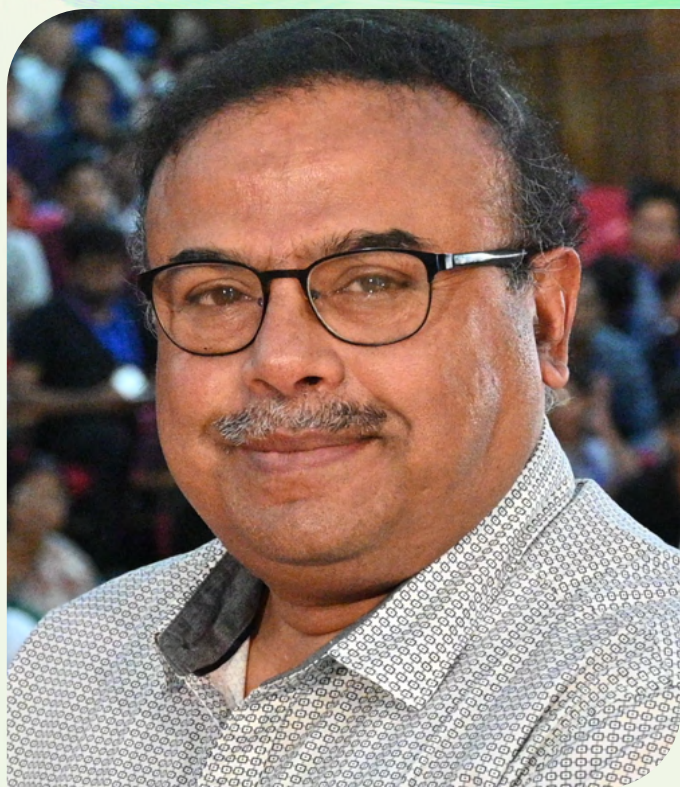
Youths are the backbone of the society and the nation as a whole. NIT Durgapur provides ample scope for their holistic development. Here we believe in the excellence in academic pursuits as well as spearheading in leadership roles. Students are not only encouraged to take charge of their lives and go beyond the ordinary but also motivated to embrace a wider perspective of life.



I would like to take the opportunity to invite all prospective stakeholders to go through the brochure for comprehensive information about the institute. It outlines achievements of faculty members and students, infrastructural facilities, placement statistics, campus events and significant contributions of our notable alumni among other relevant details. Take the plunge and explore the plethora of opportunities lying before you. Happy reading!

Prof. Sadanand Sadashiv Gokhale
The Chairperson of BOG

FROM THE DIRECTOR'S DESK



It is a matter of great pleasure to release the Information Brochure of NIT Durgapur for the academic session 2021-22. This new brochure comes with a host of first-hand knowledge about the institute. It not only highlights the academic programmes operating on campus but also some of the most recent achievements of the students, faculty members and the institute as a whole on various national platforms.

The academic programme curricula have not been included in this brochure as they are dynamically modified and kept posted up to date on the institute website. The existing programme curricula give a lot of flexibility and opportunity to the aspiring students. This brochure fantastically focuses on various academic / research facilities and relevant outputs, which are of social importance. Campus facilities that inject life into the system have also been nicely depicted in this booklet. Lastly, it is noteworthy that NIT Durgapur has produced a large number of highly reputed personalities and an honest attempt has been made so as to inspire the student community.

Prof. Anupam Basu
Director

ABOUT THE INSTITUTE

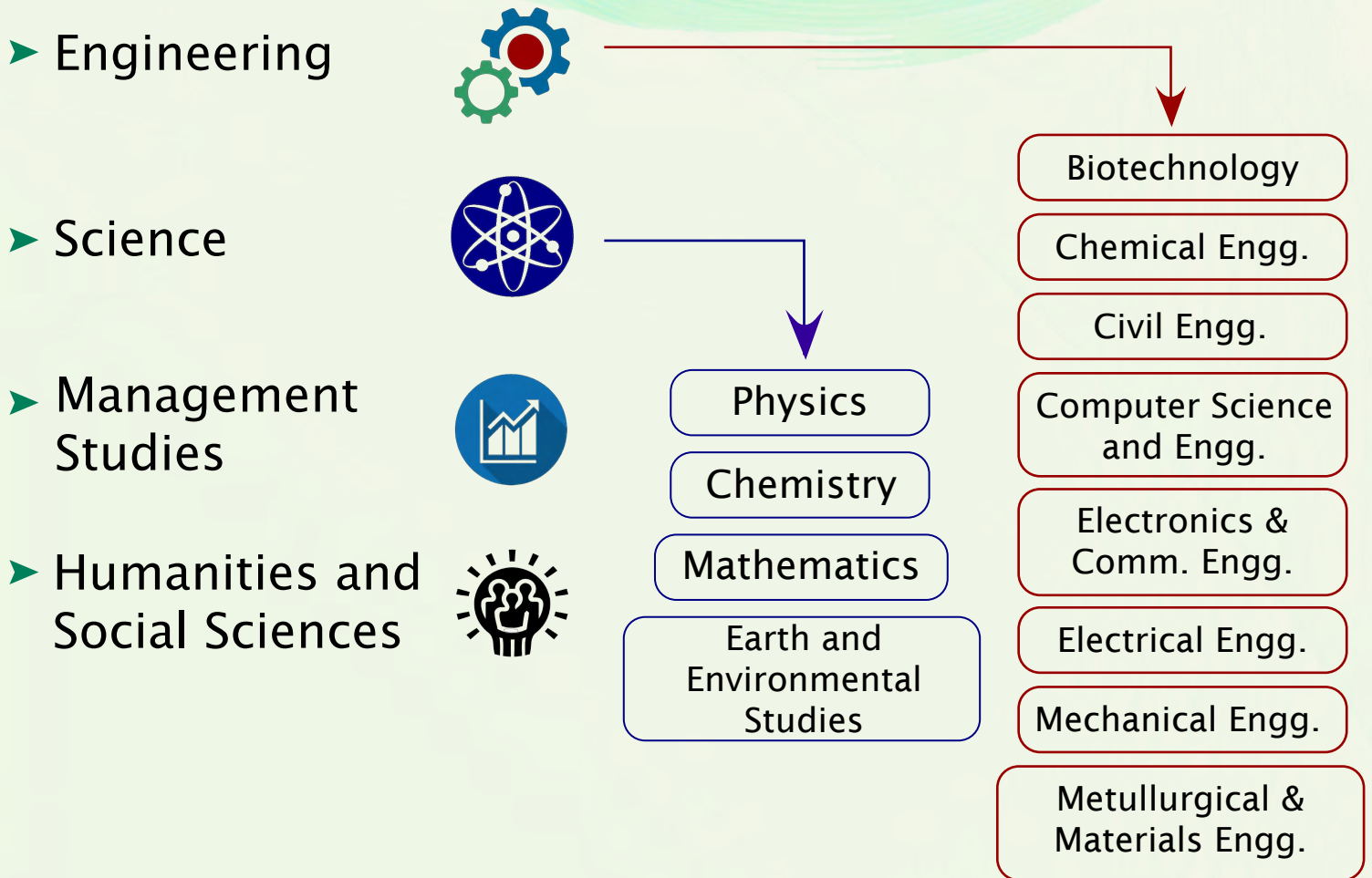
- Among the top 100 in NIRF Overall Ranking 2020
- Ranked 47th in NIRF Engineering Ranking 2020
- Active participant in TEQIP-III
- Advanced Curriculum with scope of full-semester internship opportunity and minor programs
- A BRICS Network University
- Mentor to NIT Nagaland and Dumka Engineering College, Jharkhand
- Mentored NIT Arunachal Pradesh and GKCIET, Maldah
- An active member of Unnat Bharat Abhiyan, Govt. of India
- Mentoring institute in Rastriya Abhiskar Abhiyan, West Bengal
- Undertaking pilot project 'Gender Advancement for Transforming Institutions (GATI)' by D.S.T., Govt. of India

MILESTONES SO FAR

- Established in 1960 as Regional Engineering College
- Affiliated to the University of Burdwan till 2003-04
- Transformed to NIT Durgapur, a Centrally Funded Technical Institution (CFTI) with deemed university status in 2003-04
- 2007 - An Institute of National Importance (INI)
- Received NIT Statute in 2009
- An Autonomous Institute funded by MoE, Govt. of India

ACADEMIC UNITS AND PROGRAMMES

ACADEMIC UNITS



ACADEMIC & RESEARCH PROGRAMMES



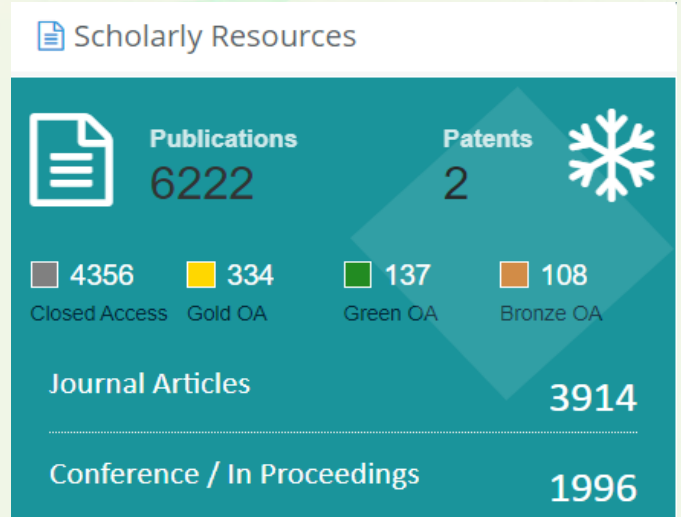
ACADEMIC UNITS AND PROGRAMMES

PROGRAMME DETAILS

- B. Tech. In Biotechnology
- B. Tech. In Chemical Engg.
- B. Tech. In Computer Science & Engg.
- B. Tech. In Civil Engg.
- B. Tech. In Electronics & Communication Engg.
- B. Tech. In Electrical Engg.
- B. Tech. In Information Technology
- B. Tech. In Mechanical Engg.
- B. Tech. In Metallurgical & Materials Engg.
- B. Tech. & M. Tech. Dual Degree In Biotechnology
- B. Tech. & M. Tech. Dual Degree In Chemical Engg.
- 5 Year Integrated M. Sc In Chemistry
- M. Tech. In Biotechnology
- M. Tech. In Chemical Engg.
- M. Tech. In Geotechnical Engg.
- M. Tech. In Structural Engg.
- M. Tech. In Computer Science & Engg.
- M. Tech. In Power Systems
- M. Tech. In Power Electronics & Machine Drives
- M. Tech. In Telecommunication Engg.
- M. Tech. In Microelectronics & VLSI
- M. Tech. In Environmental Science & Tech.
- M. Tech. In Operations Research
- M. Tech. In Machine Design
- M. Tech. In Thermal Engg.
- M. Tech. In Fluid Mechanics & Heat Transfer
- M. Tech. In Metallurgy & Materials Tech.
- M. Tech. In Advanced Materials Science & Tech.
- M. Tech. In Chemical Engineering (Specialization: Energy Resources and Sustainable Environmental Engg.)
- M. Tech. In Electrical Engg. (Specialization: Instrumentation and Control)
- M. Sc. In Chemistry
- M. Sc. In Mathematics
- M. Sc. In Physics
- M. Sc. in Life Science
- M. Sc. in Applied Geology and Geoinformatics
- Master of Social Work (MSW)
- Master of Business Administration (MBA)

ACHIEVEMENTS

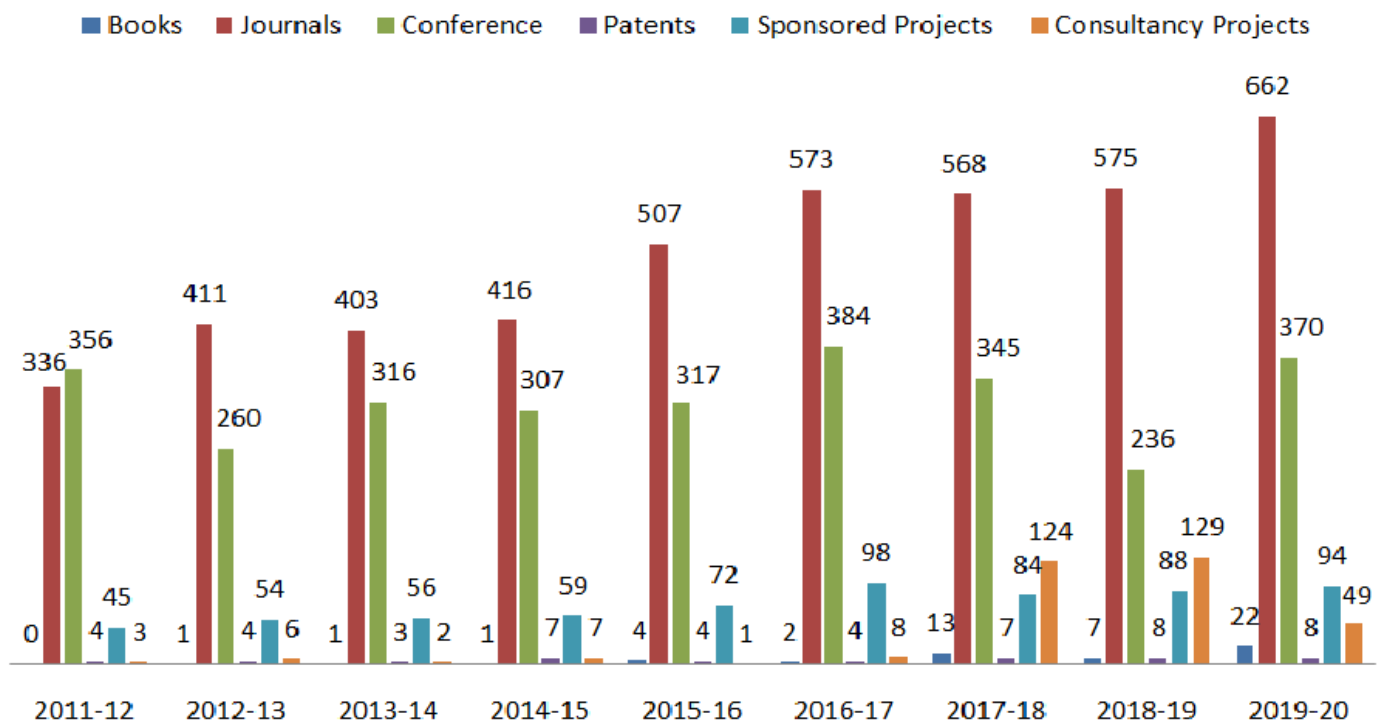
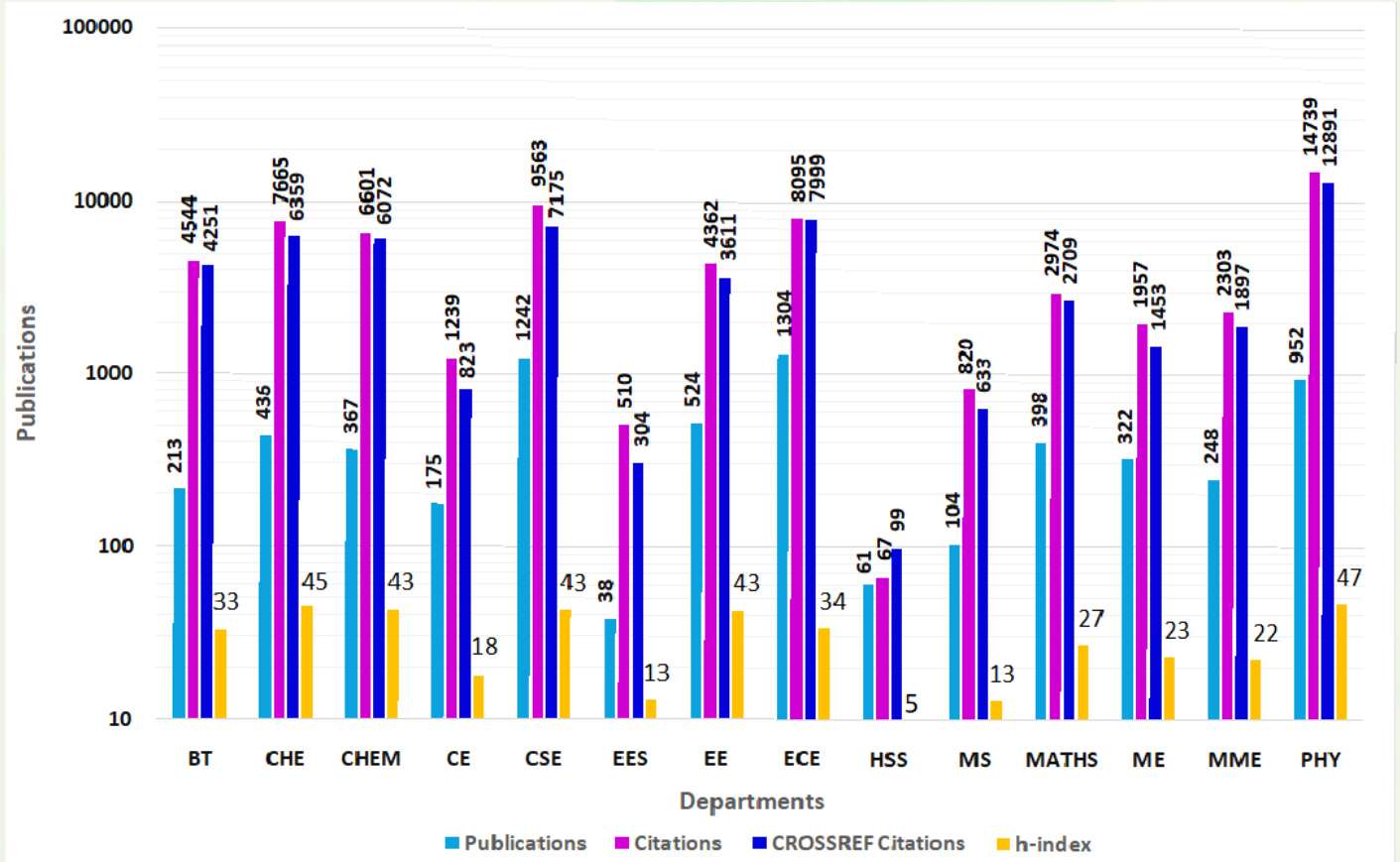
FACULTY



- A large number of publications in reputed journals
- Number of faculty members are acting as reviewer in different reputed journals, sessions chaired in international conference and delivering guest lectures and authored multiple books

ACHIEVEMENTS

INSTITUTE



ACHIEVEMENTS

STUDENTS

GATE (>500 per year; 2019: 551 out of 1020 appeared)

- Nitesh Rai - 1st (MME 2017), Tanmana Mitra - 5th (BT 2017)
- Krutika Talegaonkar - 8th (BT 2018)
- Manoj Baishya - 4th (BT 2019), Ankit Kumar - 7th (ECE 2019)
- Mukti Ranjan Mahapatra - 8th (MME 2019)

ACADEMICS (Special Scholarships etc.)

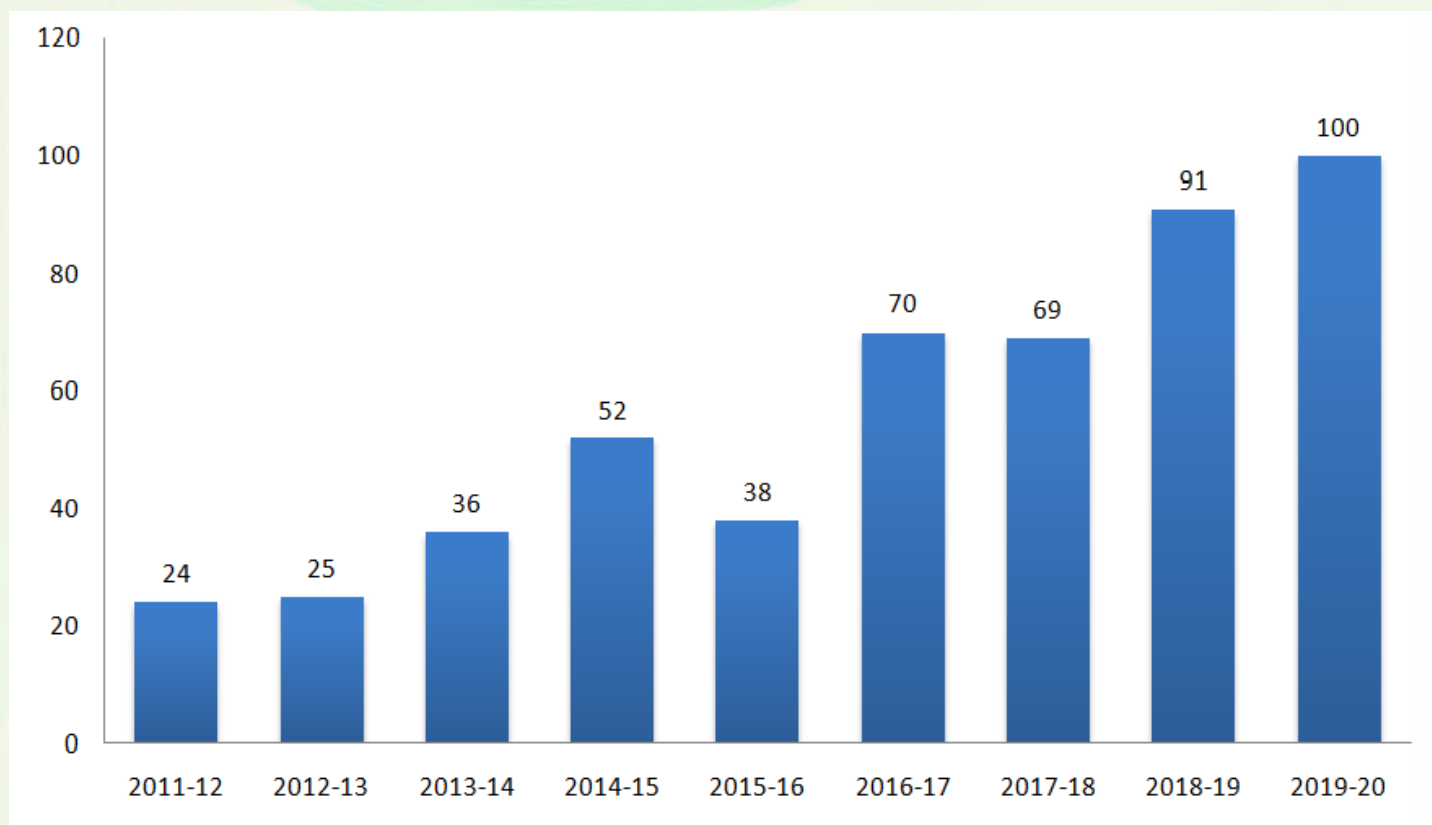
- Students pursuing Ph.D under PMRF Scheme (>10) and abroad
- Student Internships at prestigious places like CERN, MIT, Stanford, NUS
- A number of Best Paper Award
- Winner of Smart India Hackathon 2019: Team led by Swati Kanchan

SPORTS

- Table Tennis (Women) Champion : National Level Sports Fest (Sangram '17)
- Track & Field (Women) - 02 Gold & 01 Silver Medals: Inter NIT Meet 2018
- Body Building & Power Lifting (Men) - Best Physique: Inter NIT Meet 2018

GRADUATION & PLACEMENTS

Ph. D DEGREE AWARDED



STUDENTS GRADUATED

Course of Study	2019-20	2018-19	2017-18	2016-17	2015-16
B. Tech.	663	750	804	812	828
M. Tech.	220	205	274	299	264
MCA	28	33	69	63	84
MBA	18	28	20	27	37
MSC	39	30	39	29	42
MSW	6	10	N.A	N.A	N.A
TOTAL	1088	1135	1258	1286	1312

GRADUATION & PLACEMENTS

ON-CAMPUS PLACEMENT RECORD (B. Tech.)

B. Tech. in	2019-20	2018-19	2017-18	2016-17	2015-16
Biotechnology (BT)	42.86	41.28	36.20	59.09	52.63
Chemical Engineering (CH)	82.00	61.02	80.80	60.38	74.19
Civil Engineering (CE)	40.43	39.58	73.10	62.96	42.42
Computer Science and Engineering (CSE)	83.33	88.64	80.00	74.42	84.62
Electrical Engineering (EE)	77.27	75.56	68.90	69.47	79.57
Electronics and Communication Engineering (ECE)	67.53	72.45	70.90	55.17	70.10
Information Technology (IT)	88.89	84.52	90.00	72.94	79.55
Mechanical Engineering (ME)	70.54	78.46	77.70	63.64	67.97
Metallurgical and Materials Engineering (MME)	62.00	59.42	47.60	54.79	47.95
Total	71.92	70.03	70.50	64.16	67.83
Double Jobs (Number)	50	106	64	61	103

UG - PLACEMENT AND HIGHER STUDY SUMMARY

UG PLACEMENT & HIGHER STUDY SUMMARY : 2019 -20										
Branch	BT	CE	CH	CSE	ECE	EE	IT	ME	MME	TOTAL
Eligible	12	19	41	70	68	52	72	91	31	456
Total Placed	13	23	46	72	70	62	79	104	37	506
Job Offered	14	5	6	8	6	5	2	5	8	59
Higher Studies	11	5	5	3	6	6	0	11	4	51
Percentage	82.1	51.1	92	87	84	75	89	79	70	80

➤ TOTAL COMPANIES VISITED: 116

- MASS RECRUITERS: 02
- CORE COMPANIES: 114

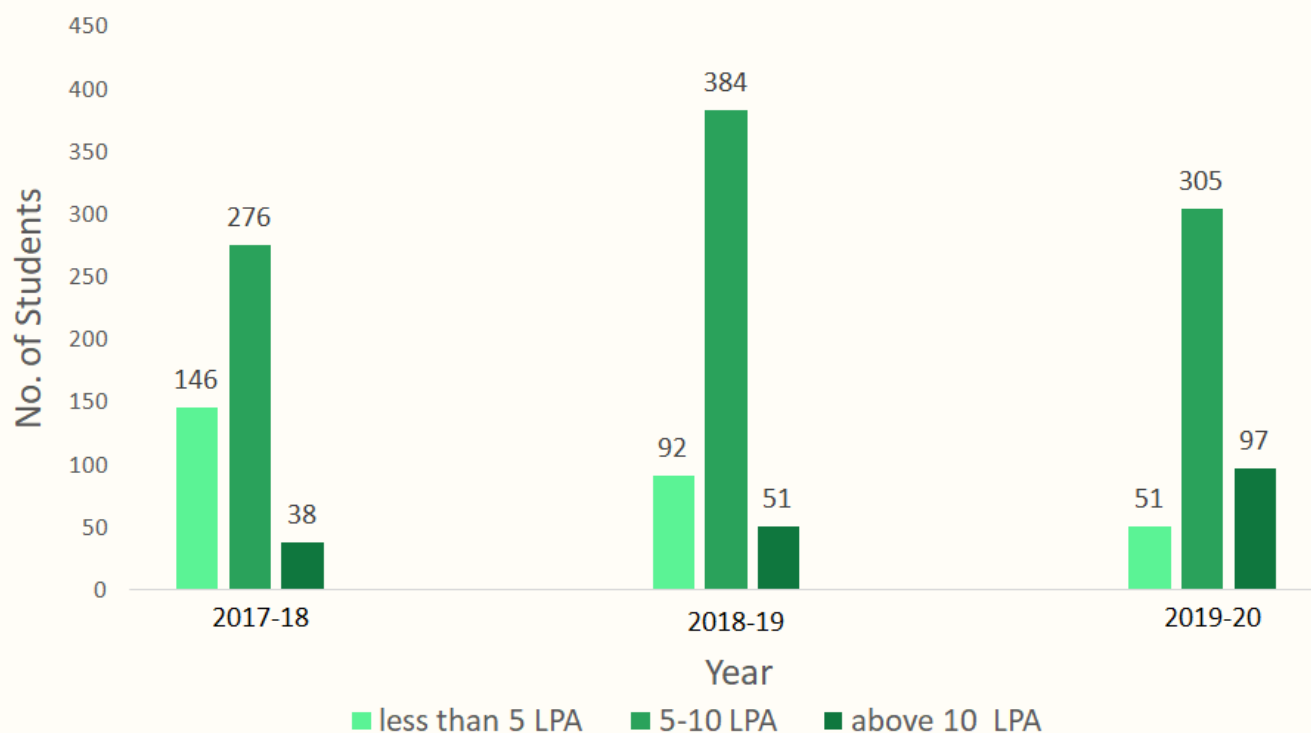
➤ HIGHEST PACKAGE OFFERED: 39 LPA

➤ AVERAGE PACKAGE: 7.975 LPA

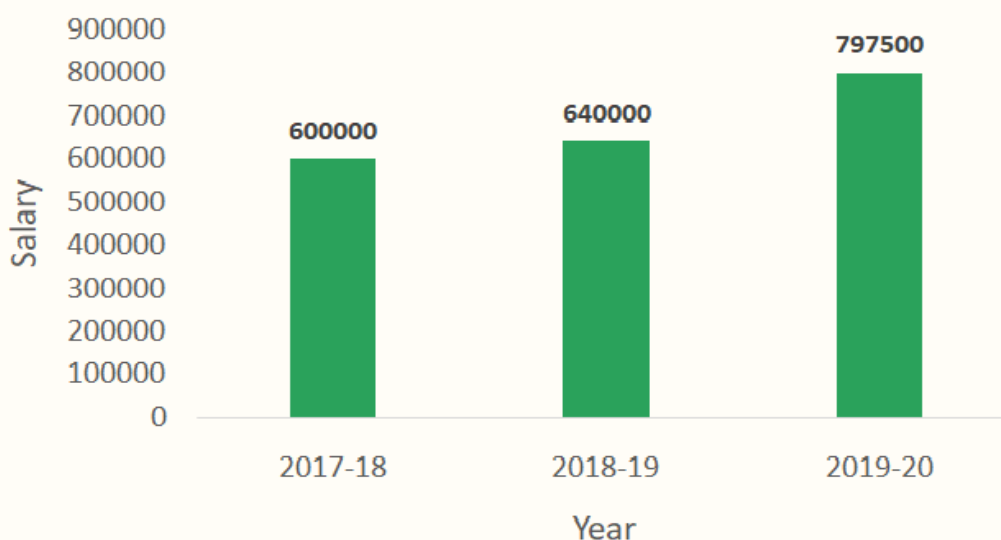
➤ MICROSOFT RECRUITED: 5 STUDENTS

PLACEMENTS STATISTICS

PLACEMENT DATA



Median Salary (in Rs.)



2016-17:

Highest Package

offered: 29.5 LPA

Offered by: D. E Shaw

2018-19:

Highest Package

offered: 39 LPA

Offered by: Microsoft, Goldmann Sachs and Qualcomm

2019-20:

Highest Package

offered: 43.13 LPA

Offered by: Microsoft

OUR MAJOR RECRUITERS



FACILITIES



187 acre lush green campus



Academic blocks



Administrative blocks



Guest House



Student Activity Centre



13 Students' Hostels



Around 82 Classrooms



2 Playgrounds



Medical Unit

- Campus wide high speed Internet connectivity
- 2 numbers of GPU server
- 3 numbers of 400 kVA DG set
- Faculty & Staff quarters
- In campus school, banks, and post office
- Online learning studio
- Tinkering laboratory
- Language laboratory
- Number of Students' clubs and affiliated chapters

CENTRES

► Centre of Excellence in Advanced Materials

It has been established as a joint venture between the departments of Physics & Metallurgical & Materials Engineering, in 2013 through a generous grant of the MoE, Govt. Of India under its Technical education quality improvement (TEQIP-II) program.

► Centre for Biomedical Engineering & Assistive Technology (BEAT)

The Centre is focused on specific research to solve complex biomedical problems that are crucial to human welfare and society, in general. It invites multidisciplinary perspective that include engineering sciences, physical sciences mathematical, and biological sciences.

► Centre for Research on Environment and Water (CREW)

A centre with a multidisciplinary approach towards advanced research on environment and water. It aims to develop the expertise to assist industry and civic administrations in developing and implementing evaluation, remediation or management strategies for contamination issues and develop technologies to convert wastes to value-added products wherever feasible.

► Centre for Advanced Research on Energy (CARE)

The aim of this center is develop technologies for taking proactive roles in transforming sustainable economic growth of the eastern region of India.

► Centre of Excellence on IoT and Intelligent Systems (IoTIS)

It focuses on advanced interdisciplinary research activities in the area of Internet of Things and assistive technologies related to Intelligent Systems to cater to the needs of the society. Another goal is to meet the challenges of the nation by encouraging research and entrepreneurship in interdisciplinary areas, encompassing engineering, sciences, and social sciences.



X-Ray Diffractometer



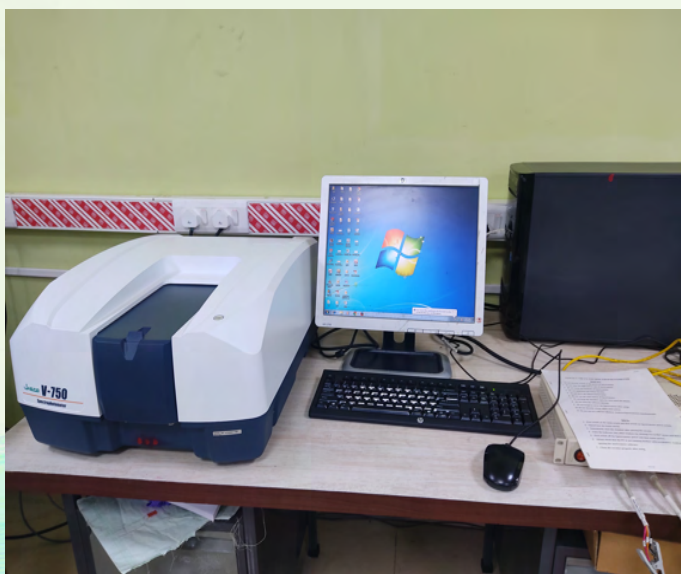
Field Emission Scanning Electron Microscope



Atomic Absorption Spectroscopy



Solar Simulator



UV-Vis Spectrophotometer



Atomic Force Microscope

UTKARSH BHAVAN (HEFA)

- G+10 Storied Central Research & Academic Laboratory
- Central Research Facility (CRF)
 - Physical Characterization Facility
 - Chemical Characterization Facility
 - Mechanical Characterization Facility
 - High Performance Computing and Storage
 - Electrical and Electronics fabrication and characterization Facility
- Central Laboratories
 - Physics Laboratory
 - Chemistry Laboratory
 - Basic Electrical Engineering Laboratory
 - Basic, Analog and Digital Electronics Laboratory
 - Computation Laboratory
 - Process Control Laboratory
 - Language Laboratory
- Some major instruments under centralized facility
 - FE SEM
 - XRD
 - US-Vis Spectrophotometer
 - Solar Simulator
 - Gas Chromatograph Mass Spectroscope
 - Spin Coater
 - Atomic Force Microscope
 - Atomic Absorption Spectroscopy

PROJECTS

- Total number of consultancy project: 52
- Total sanctioned value of consultancy project: ~ ₹2.35 Crores
- Total number of sponsored project: 94
- Total sanctioned value of sponsored project: ~ ₹11 Crores

MAJOR SPONSORS



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



सत्यमेव जयते

DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India



Scheme for Promotion of Academic and Research Collaboration



सत्यमेव जयते

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

- Department of Science & Technology and Biotechnology, Government of West Bengal
- Department of Higher Education, Science & Technology and Biotechnology, Govt. of West Bengal

NOTABLE ALUMNI

NIT Durgapur boasts of a large number of eminent alumni, associated with prestigious institutions in India and abroad. Among them a few are mentioned below:



PROF. TARASHANKAR DEB ROY

(1969, B.E, Metallurgical and Materials Engineering)

Professor,
Pennstate University,
USA



PROF. K.K. SANKARAN

(1970, B.E, Metallurgical and Materials Engineering)

Adjunct Professor,
University of North Texas,
USA



PROF. KAMANIO CHATTOPADHYAY

(1971, B.E, Metallurgical and Materials Engineering)

S. S. Bhatnagar Awardee
Honorary Professor, Dept. of Materials Engineering,
Indian Institute of Science, Bangalore



MR. SUBIR CHOWDHURY

(1981, B.E, Mechanical Engineering)

CEO,
JCB India Ltd.



MR. JYOTI PRASAD BHATTACHARYA

(1982, B.E, Electrical Engineering)

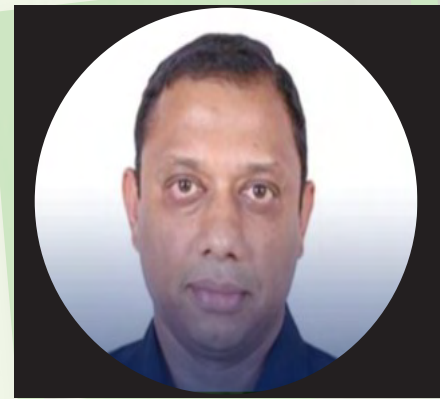
Founder & MD, Deem-Roll Tech. Ltd.
(Entrepreneur)



MR. SUBIR KUMAR SAHA

(1983, B.E, Mechanical Engineering)

Professor,
Department of Mechanical Engineering,
IIT Delhi



MR. B. SUMANT

(1985, B.E, Mechanical Engineering)

Additional Whole Time Director and President, FMCG
Businesses, ITC Limited



MR. SUBRATA DUTTA

(1991, B.E, Civil Engineering)

Vice President (Marketing),
SBU-Head, Everest Industries,
New Delhi



PROF. BIKRAMJIT BASU

(1995, B.E., Metallurgical and Materials Engineering)

S. S. Bhatnagar Awardee
Professor, IISc Bangalore



PROF. ALOKE PAUL

(1996, B.E, Metallurgical and Materials Engineering)

S. S. Bhatnagar Awardee
Professor, IISc, Bangalore



DR. MOU SEN

(1996, B.E, Chemical Engineering)

Joint Director,
Directorate of MSME,
Government of West Bengal



PROF. SAMRAT CHOUDHURY

(1998, B.E, Metallurgical and Materials Engineering)

Assistant Professor,
University of Idaho,
USA

STUDENT CLUBS



CCA



Centre for Cognitive Activities (CCA), is the technical gymkhana of NIT Durgapur. It promotes scientific and technical acumen over different fields such as robotics, entrepreneurship, research, innovation, web design and management.



Dance Club



This club provides a platform to showcase the talent, hard work and creativity through dance. It continuously thrives to improve the depiction of many things regarding society, culture and daily life perfectly through the forms of dancing.



Darpan



Darpan is a club formed by the students of NIT Durgapur to promote literary works in Hindi and thereby is a platform for discussions and interactions in Hindi.



Debating Society



Debating Society, NIT Durgapur is the official group of debaters of the college. It intends to promote and practice the culture of debating in the college.



Enteract



Enteract, the official Dramatics club of NIT Durgapur, provides a platform to one and all in the college to showcase their talents in dramatics. The club not only takes charge of the entertainment field but also spreads awareness among people through modes of street plays, stage plays, monoacts, mimes and short films.



Entrepreneurship Development Cell



Entrepreneurship Development Cell, NIT Durgapur is an initiative to promote entrepreneurship in the campus.



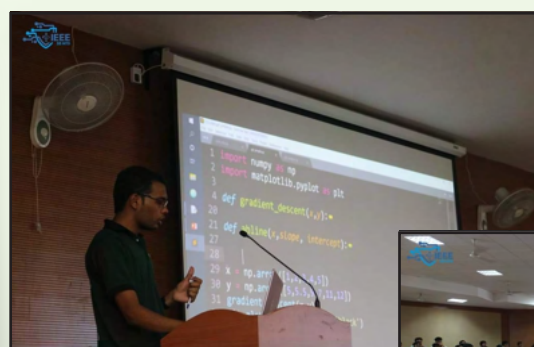
GNU Linux Users' Group



GLUG is an epithet for the GNU/Linux Users' Group of NIT Durgapur. It conducts workshops on Web Development, Android, Hackathons, GSoC BarCamp to help people contribute to open source communities.



IEEE



IEEE Student Branch, NIT Durgapur is a society of enthusiasts aimed at promoting research-related activities in the campus. Comprising bright researchers, developers, speakers, and other contributors we are a society that welcomes in the era of better research prospects, on the campus.



ISTE Students' Chapter



Indian Society for Technical Education (ISTE) NIT Durgapur is a chapter of ISTE, a leading National Professional non-profit making society for advancement in technical Education System of our country. The motto of this club is on career development of teachers and personality development of students and overall development of our technical education system.



Literary Circle



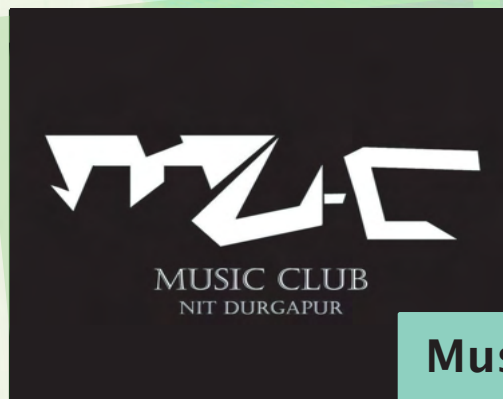
Literary Circle, NIT Durgapur gives the institute an extra dimension of creative expression in the midst of technical unilaterism.



Maths N' Tech Club



Maths N' Tech Club is the official knowledge club of NIT Durgapur. It publishes the Annual Technical Magazine, Anveshan and it conducts Aarohan - The Tech Festival along with SAE, GLUG and CCA.



Music Club



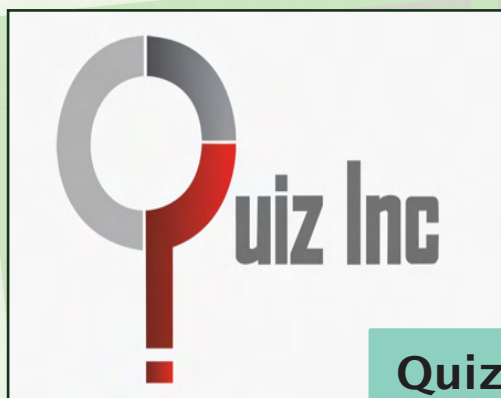
Amidst all the technical events of annual techno-management fest of NIT Durgapur, the Music Club tries to engage the crowd with some captivating music.



Prakriti Club



Prakriti is a group exclusively for all the nature lovers. Prakriti wishes to promote a lifetime of interest and pleasure for both active and armchair nature enthusiasts.



QuizInc



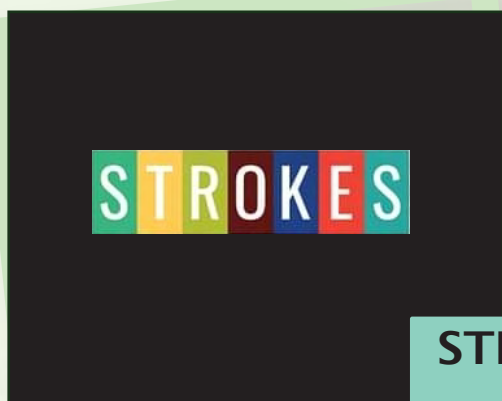
QuizInc is the official Knowledge club of the college, which dabbles in quizzing as well as the sharing of worldly information amongst all the students. They preach and practise the slogan 'Cogita, Ergo Sum', (I think, therefore, I am), and strive to change the broad consciousness of this reputed institute.



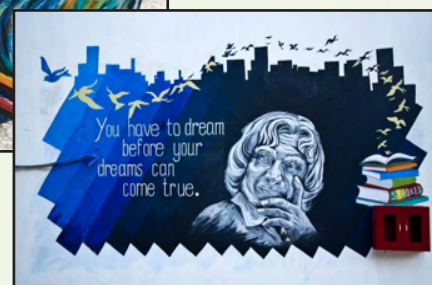
Radio Nitroz



Radio Nitroz is a club formed with the intention to better communicate with the 'students of the college, to be a college media and strive to bring a difference in the hectic life of college by bringing fun events and help people to learn better with a calm mind because "Life is to Live.



STROKES



STROKES - The art and photography club is a team of enthusiasts that aims at patronizing the sense of creativity among the students of NIT Durgapur.



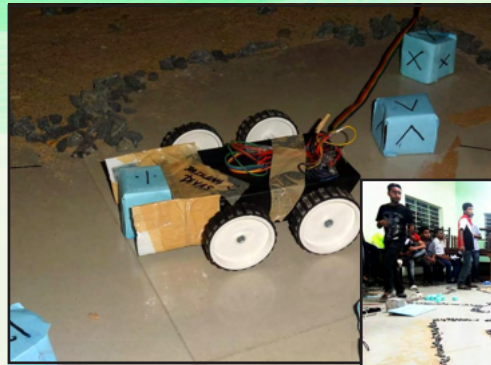
REcursion



REursion - the NIT Durgapur programming club is a group for the students of NIT Durgapur who are interested in coding.



SAE



Team NDORS (NIT Durgapur Off-Road Sports) is the official SAE BAJA team of NIT Durgapur representing the institute in mBAJA SAE INDIA. The team designs, fabricates and competes against other All-Terrain Vehicles at an event popularly called as BAJA SAE which is held annually every year.



SPIC MACAY



SPIC MACAY NIT Durgapur Chapter remains committed to its mission of making students more aware about Indian and world heritage by organising programmes of classical music and dance, folk arts, crafts, yoga, classic cinema screenings, heritage walks, etc. inside NIT Durgapur.

STUDENT BODIES



CHESS

Chemical Engineering Students Society, NIT Durgapur is an independent student-run society of Chemical Engineering Department of NIT Durgapur.



ECESS

The Electronics & Communication Engineering Students' Society (ECESS) is a non-profit society led by the students of Department of Electronics & Communication Engineering, NIT Durgapur.



EVOLVERE

Evolvere is the official club of the Department of Biotechnology of NIT Durgapur.



IIM Students' Chapter

Indian Institute of Metals Students' Chapter NIT Durgapur is a student affiliated chapter of the largest professional body of Metallurgical and Materials Engineering (i. e IIM).



MESA

Mechanical Engineering Students' Association (MESA) is a student body representing all students from the the Department of Mechanical Engineering NIT Durgapur.



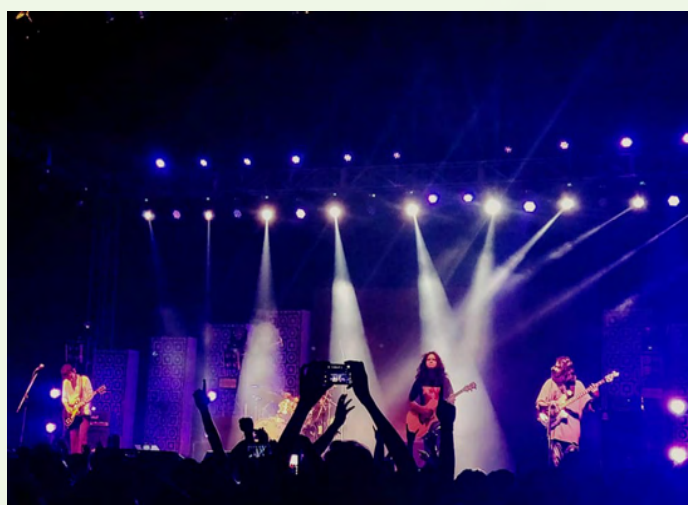
High Voltage Laboratory



Hall 12



Lords Ground



The Local Train, performing live at NITyamini, the annual cultural fest

THIS BROCHURE IS DESIGNED AND PREPARED BY

Students:

Ankan Pramanik
 Arghya Gorai
 Meenakshi Harikumar
 Tamoghna Basak

Faculty Members:

Sutanuka Banerjee
 Manoj Ozha
 Debasis Chakraborty
 Bibhash Sen
 Sirshendu Mondal
 Arup Kumar Mandal
 Subhankar Roy-Barman
 Nirmal Baran Hui

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR



NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

(An Institute of National Importance under Ministry of Education, Government of India)
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