

# Udantah



For the period of December, 2023 to July, 2024.

## From the Director's Desk.

The Government of India converted the Tripura Engineering College to National Institute of Technology Agartala on 1st April 2006 vide notification No. F. 20-20/2004/TS III/ dated 10.03.2006 of the Ministry of Human Resources Development (MHRD), Govt. of India. During the conversion, Tripura Engineering College was offering undergraduate degrees in Civil, Mechanical, Electrical, Electronics & Communication and Production Engineering. After the conversion to NIT, in 2010-11, the Institute started two UG courses Electronics & Instrumentation Engineering and Chemical Engineering. After that, during the Academic Session 2012-13, a Bio-Engineering course at UG level was started. Apart from the UG courses, The Institute now offers a postgraduate degree in MBA, MCA, M. Tech in 23 specializations and MSc in basic science. Besides these academic curricula, the Institute provides an opportunity for research. The research carried out at the departments of the Institute has produced more than 100 PhD scholars. The Institute presently has 13 departments offering UG, PG and PhD courses. Majority of the admission to this Institute is based on an all India entrance tests and or national counselling. The UG students are admitted to the Institute for the seats that are allocated by central seat allocation board (CSAB) under joint seat allocation Authority (JoSAA), based on the performance of these students, in the joint national entrance examination main (JEE Main). The



### A wink to NIT Agartala from the eyes of the Director.

Institute also invites international students to undergo UG studies under Direct Admission of Students Abroad (DASA) scheme. The classrooms and the laboratories of the Institute are equipped with modern facilities. The Institute provides computer labs in each department, to provide the students access to the worldwide net to upgrade their knowledge. Besides the computer centres of the departments, there is a central computational facility, mostly for the first year UG students. The computer science and engineering department has a PARAM Shavak super-computer. The state-of-the-art library cum knowledge centre has over fifty thousand textbooks and online e-resources. The Centre for Career Development (CCD) assists to arrange internship and placement for the students of the Institute. Besides the academic curriculum, the Institute encourages its students to participate in extra-curricular activities after the academic hours. The students actively participate in sports and techno-cultural activities

The faculties of the Institute are highly qualified and have good expertise in their fields.

The Institute has established academic tie-ups with IIT Kharagpur, IIT Guwahati, Jadavpur University, IIST (Formerly BESU), NITK Surathkal, NIT Warangal apart from other renowned University / Institute of India and abroad. There is an

agreement with IIT Madras.

The hostels in the Institute accommodate more than 3000 boys and 500 girls. To take care of the health of the students, the Institute has a medical unit in its campus. Doctors are present, round the clock, here. To help the students financially, the Institute implements various scholarships of the government of India and various state governments.

The Institute is administered by the Director of the Institute under the direct supervision of Board of Governors (BoG) of the Institute headed by the Chairman. The Institute is governed as per NIT Act 2007. His Excellency, The President of India, is the Visitor of the Institute. The academic policies of the Institute are implemented by the Dean Academic Affairs after the approval by the SENATE of the Institute and ratification by the Board of Governors (BoG). The Planning and Development of the Institute are implemented through Dean (P&D). related works in the Institute. Chairman (AA&IR) looks after all alumni affairs and affairs of

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### Special points of interest:

- Visit of North East Delegates in NIT Agartala
- Funded Project
- IIC & Startup Centre
- Faculty Achievements
- Sophisticated Library
- First Prize for Excellence in Higher Education
- A glance on our dedicated Social Media page

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## Visit of North East Delegates in NIT Agartala

- Visit of North East delegates for building Innovation and startup Ecosystem for North—East in collaboration with NITI Aayog on 29th February, 2024 at NIT Agartala .



Visit of North East Delegates for building Innovation & Startup Ecosystem for North-East in collaboration with NITI Aayog on 29th February, 2024 at NIT Agartala Innovation and Startup Centre

*“Don't take rest after your first victory because if you fail in second, more lips are waiting to say that your first victory was just luck.” — A.P.J. Abdul*

## Patent , Book & Journal Papers

- One Patent titled “An Absolute Shaft Encoder” ,Patent No: 510141 Invented by Dr. Subir Das, Dr. Badal Chakraborty Granted on 13-02-2024 from EIE Dept.
- Total 7 , Journal Paper published by Department of Mathematics during April to June.
- Total 6 , Journal Paper published by Department of Computer Science and Engineering during July to August.

## Faculty as Keynotes speaker

- Dr V C Padmanaban has given a Keynote Lecture on “Microplastics in aquatic and terrestrial ecosystem: Understanding the interaction and transport behavior” at the International Conference on “Recent Trends in Translational Biotechnology” at Sethu Institute of Technology In Association with Biotech Research Society, India (BRSI) & Origene Student's Association on 17.04.2024
- Dr. Bikram Das has delivered an Invited talk, at ICRTMSE 2023, SVKM's NMIMS, Indore.
- Dr V C Padmanaban as an Invited Speaker on “Exploring the Multifaceted World of Biotechnology- Towards the mission Viksit Bharat 2047” at SVCE Pathways, Sri Venkateshwara College of Engineering on 30.04.2024
- Dr.Apu Kumar Saha, Professor, Department of Mathematics, NIT Agartala, delivered online invited lecture in One-week National Workshop on **Aspects of E-Content Development** organized by Ambedkar College under the aegis of Electronics and ICT Academy, IIT Roorkee during 16 - 21 March, 2024.



## Interactive sessions

- A one-day workshop on **the Exposure of Chemistry to Everyday Life** was held on April 10, 2024, in the department of chemistry at NIT Agartala. The faculties and students from Holy Cross College Agartala attended the program. The workshop consisted of two lecture sessions and laboratory visits.
- One day virtual Corporate Lecture Series on **"The Importance of EQ in LSWR Skills"** organized by MHSS at NIT Agartala on 10<sup>th</sup> February, 2024
- One day virtual corporate lecture series on **"Commodity Derivatives Market"** organized by MHSS at NIT Agartala on 16<sup>th</sup> February, 2024
- One day virtual Corporate Lecture Series on **"CV Writing Master-class"** organized by MHSS at NIT Agartala on 17<sup>th</sup> February, 2024
- One Day Lecture Program on Artificial Intelligence in Business Management organized by the Department of Management, Humanities & Social Sciences (MHSS) at Virtual Class on 21<sup>st</sup> February, 2024.



## Remarkable achievement

- Gaidhani, Prerna Mahesh, Swastik Chakraborty, Kheerthana Ramesh, Padmanaban V C, and Eric D. van Hullebusch Won **"People's Choice Award"** in the International 5-min Research Presentation Challenge 2024 on the Peereftitled "Molecular Interactions of Paraben Family of Pollutants with Embryonic Neuronal Proteins of Danio rerio: A Step Ahead in Computational Toxicity Towards Adverse Outcome Pathway .
- One of the passed out Ph.D. scholar, Dr.Birojit Das is currently working in Tsinghua University (the 4th Ranked Asian University and 17th QS Ranked World university) in Beijing, China, where he has been invited by Prof. Boading Liu, the founder of Uncertainty Theory .

*" For a successful technology, reality must take precedence over public relations, for Nature cannot be fooled." - Richard P. Feynman*

## Participation Renowned Conferences

- Dr. Subhadeep Bhattacharjee, Associate Professor in Electrical Engineering, NIT Agartala has attended the 38th Indian Engineering Congress which was held at Jabalpur, Madhya Pradesh during 27-29 December 2023 on the theme "Reimagining Tomorrow: Shaping the Future through Disruptive and Interdisciplinary Technologies".

*"Learn everything that is good from others, but bring it in, and in your own way adsorb it; do not become others."*

*- swami vivekananda*



## Achivements in GATE

- Mr. Abhijeet Bhatta (20DTPH024) and Mr. Sriansh (20DTPH019) of BTMT (Engg.Physics 8<sup>th</sup> Semester) secured AIR rank 24 and 219 respectively in Gate(Physics) Examination 2024.
- Manjit Kumar (20DSMA003) with AIR 139 , Nikita Ghosh(20DSMA002) with AIR 5804, Hemant Shankar (20DSMA023), wit AIR 1871. MridulankaNath (20DSMA019) , with AIR 1521. Korbidebbarma(20DSMA022) with AIR 3940, Austin Paul (21DTMA001) with AIR 1435, Banya Das (19DSMA004) with AIR 4145 and 14345 , AyantikaMajumdar (23PMA006) with AIR 1435 , Gaurav Singh (22PMA009), with AIR AIR 704 are qualified GATE Examination 2024 from Mathematics Dept.
- One of the passed out student, BinayakBanik of M.Sc in Mathematics and Computing, qualified GATE examination 2024 in the subject Mathematics with AIR 977.



## First Prize for Excellence in Higher Education



विद्या ददाति विनयं विनयात् याति पात्रताम्।

पात्रत्वाद्धनमाप्नोति धनाद्धर्मं ततः सुखम्॥

व्यसनानि संति बहुनि व्यसने व्यसनैव केवलम् व्यसनम्

विद्याभ्यसनम् व्यसनम् अथवा हरीपादसेवनम् व्यसनम् ।

विद्या विवादाय धनम् मदाय शक्ति परेषाम् परपीडनाय

खलस्य साधोर्विपरीतम् एतत् ज्ञानाय दानाय च रक्षणाय।

NIT Agartala won 1st Prize for Excellence in Higher Education during Government Achievement and Scheme Expo 2024 at Pragati Maidan during 20-22 July 2024 .Department of Computer Science and Engineering and Mechanical Engineering students represented their innovative ideas in the field of robotics, material Science and aero model designing under the guidance of Dr.Suman Deb and Dr.Pankaj Kumar Das, has gathered praises all across the board. Experts from various government bodies and businesses visited and interacted with the budding technical minds of NIT Agartala. NIT Agartala team was able to gain lot of insight in to industry standards and norms.



## Funded projects

•Kheerthana Ramesh under the supervision of Dr V C Padmanaban received funding support from MSME - Idea Hackathon for her project on “Antimicrobial resistance Surveillance in the municipal black water of Northeast India and its remediation through Advanced oxidation processes”.

•Roshan Jaiswal under the supervision of Dr V C Padmanaban received a DAAD Worldwide Fellowship to work with Ms. Sophie Henningsen, a German Scholar at NIT Agartala.

•A project named “Mathematical studies by means of numerical simulation of some interacting populations with ecological behavior” of Rs. 15.31 Lakh acquired by Mathematical dept. ( NIT Agartala) from Department of Atomic Energy under the supervision of Prof.Paritosh Bhattacharya for the duration of July 2022-July 2025

•A project named "Solving Multiple Gravity Assist Spacecraft Trajectories Optimization problem by Metaheuristic Algorithms" of Rs. 2,20,000/- per annum acquired by Mathematical dept. ( NIT Agartala) from SCIENCE & ENGINEERING RESEARCH BOARD (SERB) under the supervision of Prof.Apu Kumar Saha for the duration of Jan 2022 – Jan 2025.

•A project named "Transmission of quantum information using perfect state transfer “ of Rs.2040293 /- acquired by Mathematical dept. ( NIT Agartala) from SCIENCE & ENGINEERING RESEARCH BOARD (SERB) under the supervision of Dr.SupriyoDutta for the duration of 3 years.

•A project entitled “CAPACITY BUILDING OF FACULTY AND INSTITUTIONS TOWARDS DESIGN AND ENTREPRENEURSHIP DEVELOPMENT” under the aegis of MMTTP funded by MoE, Department of higher education ,submitted by NIT Agartala have been recommended to be included in the Malaviya Mission Teacher Training Programme (MMTTP) for 5 years with financial support Rs.21 lacs per year. Prof. Baby Bhattacharya (PI), Department of Mathematics & Prof. Umesh Mishra (Co-PI), Department of Civil Engineering, NIT Agartala.



## Remarkable Touches

- Padmanaban V C from Biotechnology Dept. was an evaluation panel member in the Environmental Division of ACS Spring 2024, American Chemical Society.
- Dr V C Padmanaban as a Plenary speaker at the 2nd International Congress on Energy & Industrial Processes Engineering, Algeria, on “Systematic computational toxicity analysis of the emerging pollutants: Quantitative structure-activity relationship (QSAR) and Adverse Outcome Pathway (AOP) based approach “
- Dr. Bikram Das from EE dept. acted as Session chair for PESGRE 2023, TPC for PESGRE 2023
- Dr. Sailendra Sing from EE dept. has served as Session chair in The 3<sup>rd</sup> International Symposium on Sustainable energy and Technological Advancements (ISSETA-2024), during 23-24 Feb 2024 organized **by NIT Meghalaya**
- **Dr. Sailendra Singh has been awarded Young Professional Research Award** in the 3<sup>rd</sup> International Symposium on Sustainable energy and Technological Advancements (ISSETA-2024) during 23-24 Feb 2024 organized **by NIT Meghalaya**, in recognition of his outstanding professional & research achievements in the field of energy technologies.
- Dr. Subhadeep Bhattacharjee (EE Dept.), Chairman of the IEI Tripura State Centre is receiving the Best State Centre Award of the IEI from Er. Rajendra Shukla, Deputy Chief Minister of Madhya Pradesh during the 38th Indian Engineering Congress which has been held at Jabalpur during 27-29 December 2023. for all round performance during 2022-23 under his Chairmanship .

## Media Page.

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### The Team for SAC :



Dr. Paritosh Bhattacharya  
Asso Prof, Chairman



Dr. Mitra Barun Sarkar  
Asst Prof, Convener



Dr. Suman Deb  
Asst Prof, Member



Dr. Rajib Mallik  
Asst Prof, Member



Mr. Dhruvajyoti Bhowmik  
Asst Prof, Member



Mr. Malay Paul  
Technical Staff



Mrs. Sarbani Das  
Technical Staff

*Udantah is a newsletter published by NIT Agartala. It paves a role to showcase the major events, activities and achievements of the Institute. This newsletter will provide avenue to increase a better understanding and knowledge of our institute.*

## Institute Innovation Council and Startup

- Under NGIN, DIT Tripura 5 selected innovations get investment package of 1 Lakh each.
- CUBO-BOTS Private limited company founded by woman entrepreneur, PhD scholar, Rapti Chaudhuri in January 15, 2024.
- CUBO-BOTS private limited achieved OctaNE grant of 25 lacs from STPI under MeitY (NE scheme).
- Kheerthana R, Ph.D. Scholar got MSME women entrepreneur grant of 15 lacs.
- Prerna M Gaidhani with her team achieved BIRAC Yuva grant of 4 lac.
- 3 innovations from NIT Agartala selected for 12 lacs SPRINT grant by, IIT Ropar.



**BIS personnel visit Lab for Standardization**



A glance on our dedicated Social media Page.



<https://www.facebook.com/nit.agartala.501>



Successfully accomplished  
Second International Conference on Data Science and  
Network Engineering  
Organised by CSE Dept , NIT Agartala  
during 12-13 July 2024  
[www.dsne.in](http://www.dsne.in)

