



राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय

NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA




10th
Annual
Convocation

18th November, 2023





NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA

TENTH CONVOCATION

NOVEMBER 18, 2023

Chief Guest

Dr. Arun Kumar Sarma
Honourable Director General
NECTAR

Guest of Honour

Shri Upananda Katak
Executive Director
Power Grid Corporation
of India Ltd

Shri Sunil Alagh
Chairperson, BoG

Prof. Pinakeswar Mahanta
Director & Chairman Senate



10th Annual Convocation

Minute to Minute Program

11.00 am	Academic Procession proceeds to Convocation Hall
11.01 am	Invocation Song and arrival of Academic Procession
11.04 am	Declaration of the opening of Convocation by the Chairperson, Board of Governors
11.05 am	Presentation of reports by the Director
11.20 am	Address by the Chairperson, Board of Governors
11.30 am	Address by the Guest of Honour
11.40 am	Address by the Chief Guest
11.50 am	Award of Ph.D., M.Tech., M.Sc. and B.Tech. degree
12.20 pm	Presentation of Medals
12.25 pm	Pledge by degree recipients
12.27 pm	Declaration of closing of the ceremony by the Chairperson, Board of Governors
12.28 pm	National Anthem
12.30 pm	Departure of Academic Procession



MEMBERS OF THE BOARD OF GOVERNORS OF NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA

Sl. No.	Name
1	Shri Sunil Alagh, Chairperson BoG, NIT Meghalaya, Chairman & Managing Director, SKA Advisor Pvt. Ltd., Mumbai
2	Prof Parameswar Krishnan Iyer, Director, IIT Guwahati
3	Prof Pinakeswar Mahanta, Director, NIT Meghalaya
4	Ms. Soumya Gupta, JS (NITs), Dept. of Higher Education, Ministry of Education
5	Shri Sanjog Kapoor, JS & FA, Dept. of Higher Education, Ministry of Education
6	Shri Wallamphang Roy, Managing Director, Meghalaya Power Carriers Pvt. Ltd
7	Shri Medrickson Tariang, Chief Engineer (Retire), P.W.D (Roads), Shillong
8	Prof Ayon Bhattacharjee, Professor PH Deptt., NIT Meghalaya
9	Dr. Deba Kumar Sarma, Assoc. Prof., ME Deptt, NIT Meghalaya
10	Dr. Rabindra Narayan Mahapatra, Registrar (i/c), NIT Meghalaya

SENATE

Sl. No.	Name	
1	Director, NIT Meghalaya	Chairman
2	Prof. Mousumi Guha Banerjee, Director, ELFU Shillong Campus	Member
3	Prof. Saurabh Basu, Dept of Physics, IIT Guwahati	Member
4	Prof. M. Panda, NIT Rourkela	Member
5	Prof. H. C. Das, Professor, NIT Meghalaya	Member
6	Prof. A. Bhattacharjee, Professor, NIT Meghalaya	Member
7	Prof. G. Panda, Professor, NIT Meghalaya	Member
8	Registrar, NIT Meghalaya	Member Secretary



PROFILE OF THE CHIEF GUEST

Dr. Arun Kumar Sarma

Honourable Director General NECTAR



Dr. Arun Kumar Sarma took charge as Director General of North East Centre for Technology Application and Reach (NECTAR) on 30th September, 2019. Prof. Sarma holds doctoral degree in physics from IASST & Guwahati University, Assam in the year 1999. After completing 1st post-doctoral research at Institute of Space & Astronautical Science (ISAS), Sagami-hara, Kanagawa Japan, he worked as a Scientist at CPP-IPR, (Extension Centre) Govt. of India for one & half year. He served as a faculty in the Deptt. of Applied physics of BIT, Mesra, Ranchi during 2003-07. Then he joined Pandit Deendayal Petroleum University (PDPU) during 2007-2011. He also

served as a Dean of PG programme for 3 years at PDPU.

Before joining NECTAR he served as a Professor of Physics of VIT University, Chennai Campus from 2011 & he was Dean Sponsored Research of VIT Chennai from 2012-2019. He was the recipient of BOYSCAST, DST, Govt. of India fellowship in the year 2004-05. He was also recipient of various prestigious fellowship like AAAPT Research & Training from Chinese Academy of Sciences, Beijing, China, CoE fellowship from Ministry of Education, Culture, Sports, Science and Technology, Japan, INSA bilateral exchange programme, INSA visiting fellow etc.

His research interest includes fundamental & application-orientated research using Plasma Science and technology & mainly on thin film coating for metal, semiconductor, and textile materials. He has a few patents & published a number of research papers in internationally reputed journals. He has also transferred a Technology to the automobile parts Industry. He has completed a number of projects from various Govt. funding agencies & guided a few students to their Ph.D. degrees.

He has strong collaboration with foreign Universities from Austria, France, Germany, Japan, Nepal, Thailand & UK



ADDRESS BY THE CHIEF GUEST

Dr. Arun Kumar Sarma

Let me start with the most important thing of today. My heartiest congratulations to all the students who are graduating today. Also congratulate to their proud parents whose dream also came to reality today by seeing their kids are formally getting graduate today. Let me also heartfelt thank to Prof. Panikeswar Mahanta Director NIT Meghalaya to invite me to address in this auspicious occasion. This is the DAY to be remembered always and I feel it is as important as some other important days.

This is of course an important occasion for all of you, for your family and friends. We all know that graduating day is the end of an important phase of our life and the beginning of a new one in different way. I can tell you from my experience, as also that of everyone else that I know, that you will cherish the time in this college almost more than anything else.

Let me also clearly point out that this convocation ceremony does mark the end of your college period and it certainly doesn't mark the end of your education. What I mean to say that I am not referring to graduate school that many of you might go to, I am just pointing out what you know. That learning and education is a life-long process, and it is related to every step of our life. It is for you to take charge of your own education in this continuous learning processes. Without learning attitude, you cannot reach top of the hill of your life. I strongly feel that this generation people are getting more opportunities to learn many new things, and all are of advanced category. I also feel that our generation people are the luckiest one to see changes in every steps. So, learning for us is somewhat more than the at present generation. Technology transformation is the most important aspect of our life that connects many things related to us. I can site few examples on it: (i) how many of you are aware about CRT based TV and technology related to the same. Now we are talking about LED and LCD based TV even we talked about Plasma technology-based TV. How the resolution of colour, viewing angles have drastically changed with this new technology, which were almost impossible to think with CRT based TV. Again, distribution of TV channels from antenna driven distribution to fiber-based distribution. (ii) In the mobile technology we have seen how it is changing in day-to-day basis. I don't know how many of you have seen button-based mobile which are still using by old people. But the kind of Apps and its applications through android and i-phone could make an impactful change in our daily life. (iii) Technological change in the agriculture sectors leading many urban and educated people to consider this sector also an self-reliant earning source. I have seen in newspaper one person from Bangalore and one from Noida used Hydroponic technology in saffron cultivation and earning huge amount of money. Shailesh Modak, a Pune-based software engineer, was always taught at his middle-class home to have stable jobs with steady earnings. But when he landed a job as a software engineer at ECS, Pune, and later at Barclays, Shailesh felt that he was being chained down by work. Hence, he quit the job and invested 10 lacs for this new venture and now he is earning very good amount in every year in one time investment.



So, let me share some very important points to you to critically take care during your entire life from now onwards:

First, be open-minded and think critically in your every future step, ask questions to yourself at least 3 times before taking any decisions in your life. We all know that any obstacle may come at any moment to us, just what we had seen during the COVID time. We learned a lot during that time and after that also. It is only through analytical thinking abilities that we can actually grasp reality as it is, not as we wish it to be. Recognizing the reality is the basis for dealing with any situation whether it is big or small.

Second, there is no alternative for intense work, dedication and determination. Again, the pandemic has taught us many ways to do our work. I strongly feel that we Indian are robust enough to survive in any circumstances and make ourselves ready for the same. As per data, due to pandemic only we could create many small-scale entrepreneurs particularly in NE region and many of them are doing really very good job. They became job creators now instead of job seekers.

Few examples I can site to you for the same (i) Moorhen Yoga Mat from Water Hyacinth in Ajara, Guwahati (ii) Saffron Cultivation in NE region (iii) Terracotta and Clay pottery unit in Assam and Manipur (iv) Biodegradable bags from Casaba in Nagaland (v) Mustered honey in related value-added products in NE and many more (vi) Flower business in Mizoram (vii) Sericulture clusters in Assam, Meghalaya, Mizoram etc. (viii) Organic farming and marketing. Third, all of us know very well that we are leaving in society with fellow human beings all throughout of the life. Without doing the same no one can survive. This we need to do because of harmony and compassion. Even we had seen this during the pandemic time how people worked by keeping their life on danger to help people day and night. Now question is, why were you doing this voluntarily? After asking the same question to all concern people the answer from all of them was the same as 'these are our own people, we have a sense of solidarity, if in this hour of emergency, we don't stand by each other, how can we be human being. The point that I want to pass to our future generations is that 'it is empathy and a sense of harmony that makes us human and makes a society to function properly and hence grow. But often, it is seen that (particularly in urban society of our country) we are not giving much importance on this very important point and as a result we became more self-centred people only. Because of the that i.e., when we act only for ourselves, with self-interest in mind, we lose some of our humanity. While the situation like pandemic brings out the importance of empathy and solidarity so distinctly, it is equally important in all aspects of our lives to always maintain the same to proof ourselves a good human being.

Fourth, the other important part of our life is the integrity, honesty and open in nature. We should be always open accept new ideas or concept from wherever it comes, if the same is going to help us. We must be willing to take out the truth, encounter with the truth, speak the truth and accordingly perform based on truth. The most important lesson of our life should be that the truth and integrity are the foundation of everything. With this basic requirement



you can take an organization from nowhere to anywhere. There are many examples I can share with you related to this but the best one is the Delhi Metro and contribution of Mr. E. Shreedharan, the metro man of India.

Fifth, the collective approach of doing make you successful for big projects. My analysis in our country and specifically in NE is that people are more self-concerned in executing projects. Because of self-concerned we are always limited and don't want to share our thinking process with others achieve more. Intension should be working for big output involving more and more people in collaborative approach to make real impact in society and as such to the country. Contributions from different stakeholders can really make a huge contribution to accomplish a work in big way (Amul Milk model). Unfortunately, we can't make it because of individualistic approach in our working model.

Last but not the least we should always keep our mind open to do some works for the society (at least 10%). We have been talking about seriously about 'SWASCHATA' for last few years. How we have been contributing to it in our daily life. A small contribution from our side on daily basis can be a huge in collective manner. Now we are talking about everything digital and the way we have fulfilled the concept of digital transaction in our daily life, which was unimaginable 10 years back. Even many developed countries could not make till date. All these could happen because of our collective approach. Our mindset got changed, we are now in MOON, MARS and very soon we will be part of producing SUN on earth company (through ITER). How these are happening now in this country? We have everything but we are not pro-active in nature. Hence for young people like you who have all capabilities, please make yourself available for doing something for the society which could be directly and/or indirectly benefit the country as whole. It is high time for all of us to re-design on our both thinking and execution process to implement all these.

All our great hope wish is to see our country a developed country during our lifetime only. The way we have been pursuing I can say that we will achieve the same very soon, provided that all of us sincerely work together with clear goal in mind. In doing so we should pledge that we will work hard, dedicatedly and with utmost honesty. Our intension is to make our beautiful country a place where everyone has a life of dignity and respect. Make it a country where all live with humaneness, unity and peace. Make it truly the country that we have promised ourselves in our constitution.

As I said, my hopes soar with you.

I know that you will be very successful engineers and businessperson and also a very good human being. But I am insisting you to be more than that, because I know that you have it in you to be more. I am urging you to become leaders of change for our beautiful country a developed one. We as a country have the full potential and you have as a person having more potential to make it possible.

I once again heartily congratulate to all of you and your family members, as also my best wishes in everything that you do in your future endeavour.

Namaskar, Thank you and Jai Hind.



PROFILE OF THE GUEST OF HONOUR

Shri Upananda Kataki



Shri Upananda Kataki is a distinguished Electrical Engineering Graduate from Gauhati University, graduating in the year 1988. Following the completion of his engineering degree, he embarked on his professional journey by joining the Northeastern Electric Power Corporation Limited (NEEPCO) in 1989, where he commenced his career as an Engineer. In 1991, with the establishment of POWERGRID, he made a significant career move by transitioning to this dynamic organization. Throughout his extensive career, Shri Upananda Kataki has accumulated a diverse and valuable array of experiences. His professional expertise is primarily rooted in the

domains of Transmission Line and Substation Construction, Substation Operation, and Maintenance, and Asset Management. His contributions to these critical areas of the power sector have been instrumental in ensuring the efficient and reliable delivery of electricity to communities across the nation.

As of today, Shri Upananda Kataki holds the esteemed position of Executive Director at Power Grid Corporation of India Ltd. This role places him at the forefront of shaping and guiding the power sector in India, overseeing a wide range of responsibilities related to the transmission and distribution of electricity. His dedication, experience, and leadership have undoubtedly made a profound impact on the development and management of the electrical infrastructure in the country. Shri Upananda Kataki's career serves as an exemplary testament to his commitment to the power industry and his invaluable contributions to the nation's progress.



ADDRESS BY GUEST OF HONOUR

Shri Upananda Katakai

Respected Chairperson of the Board of Governors, Sh. Sunil Alagh, Chief Guest of Today's Graduation Ceremony, Dr. Arun Kumar Sarma, Director General (NECTAR), the Director of the Institute, Professor Pinakeswar Mahanta, Distinguished Guests, Members of the Board of Governors & the Senate of NIT Meghalaya, Deans, Heads of Departments & Centres, Faculty Members, Officers & Staffs of the Institute, members of the Media, proud Parents, Guardians and most importantly, the brilliant degree recipients of the National Institute of Technology Meghalaya,

It is with immense pride and joy that I stand before you today to be a part of this momentous occasion of celebrating the remarkable achievements of the degree recipients of NIT Meghalaya. The path you have walked, the challenges you have overcome and the knowledge you have acquired have brought you to this pivotal moment in your lives.

Today, I would like to focus on a few key themes that are essential in the context of the engineering world, notably the power industry for the newly graduated engineers & the students community. They are 1) Leadership, 2) Innovation, 3) Sustainability and 4) Ethics. These aspects are not just relevant for engineers but are also foundational principles that should guide you in your careers, no matter where they take you.

First and foremost, let's talk about Leadership. Leadership is not defined by your job title, but by your actions and the impact you create. As engineering graduates, you are well-versed in the technical aspects of your field. However, being a leader goes beyond your technical knowledge. It requires vision, the ability to inspire and the courage to make tough decisions. The engineering world is dynamic and challenging, and it demands leaders who can navigate through complexities and uncertainties. Leadership is about setting a high standard for yourself and those around you. It's about being a role model and fostering a culture of excellence. In any Engineering discipline, always remember that leadership is a responsibility that accompanies your technical skills. Be proactive, take ownership of your work and lead by example.

Innovation is the lifeblood of the Engineering World. Your generation, more than any other, is witnessing a remarkable transformation in the power sector due to various innovations. For example, Renewable energy, smart grids and advanced technologies are changing the way we generate and distribute power. Embrace these changes and be the driving force behind innovation. Innovation is not limited to developing cutting-edge technologies; it also involves finding new ways to optimize existing systems and processes. I encourage you to be curious, to ask questions, and to seek solutions to the



challenges that our industry faces. Always be open to learning and adapt to new ideas, for innovation thrives in open minds.

Sustainability is a global imperative and engineers play a pivotal role in achieving a sustainable future. As engineers, you have the power to influence the transition to a more sustainable energy ecosystem. Focus on reducing carbon emissions, increasing energy efficiency and promoting the use of renewable energy sources. Sustainability is not just about what we do but also about how we do it. It's about considering the long-term consequences of our actions. It's about using resources wisely and leaving a cleaner and greener planet for future generations. Our Nation has committed to achieve the Net Zero Emission Target by 2070 and as you all know, the buzz word in any sector today is ESG (Environment, Social, Governance). In the power sector, sustainability encompasses everything from the choice of energy sources to the design of infrastructure. We are working hard in developing & adopting Technologies (like Superconducting Power Cables, Green Hydrogen, Energy Storage, Home Energy Management systems, Smart Appliances etc.) and Policies (Reducing the use of SF6 gases, developing Green Substation Models, Tariffs depending on the time of use) for achieving the Green Grid Initiative goal towards the “One Sun, One World, One Grid”. Think about how your work can contribute to a more sustainable future and make it a central part of your career and help achieve our Nation-wide Goal.

Remember, in our pursuit of progress and profit, we must never compromise on ethics. Always prioritize the safety of people and the environment. Make decisions that are not just legally compliant but also morally sound. The power industry is highly regulated, and ethical lapses can have severe consequences. Remember that your actions can impact the lives of many and always uphold the highest ethical standards.

Furthermore, never underestimate the power of collaboration. The power sector involves a complex network of stakeholders, from government agencies to private companies. Collaboration is key to overcoming industry challenges and your ability to work effectively in cross-functional teams will be a valuable asset. The collaboration between industry and academia is vital in ensuring that you receive the best education and practical exposure. As many of you are aware, POWERGRID have been conducting a Series of Technical Sessions Online in which faculties and students of NIT Meghalaya have been invited where various case studies & industrial experiences pertaining to the Power Transmission Sector have been shared. I would like to see more students come forward and participate in these sessions for gaining of knowledge.

As you move forward into your professional careers, I urge you to stay committed to learning. The engineering world is continually evolving and staying updated is crucial. In your journey, always be ready to accept challenges. The engineering world is both exciting and demanding. It will test your problem-solving skills, your ability to work in teams and your adaptability. These challenges are opportunities in disguise. They



provide you with the chance to learn and grow and they are often the stepping stones to leadership positions.

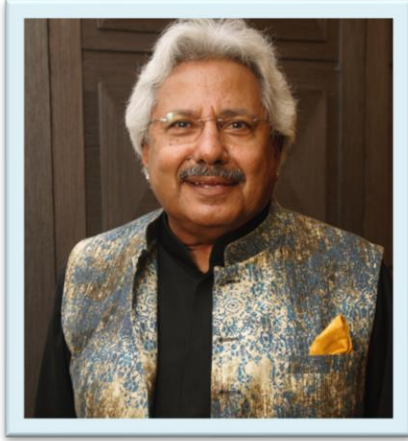
In closing, I want to express my heartfelt congratulations to each of you. You have worked diligently to reach this moment and your accomplishments are a source of pride for your families, your educators and your nation. The journey ahead will present its own set of challenges, but it will also be filled with opportunities for growth, impact and fulfilment.

I have full confidence in your abilities and your potential to shape the future of our Nation. Go forth, be leaders, be innovators, be champions of sustainability and uphold the highest ethical standards. Congratulations, graduates of NIT Meghalaya, and may your journey be marked by success, progress and a brighter, more sustainable future.



PROFILE OF THE CHAIRPERSON, BoG

Shri. Sunil Alagh



Sunil Kumar Alagh is the Managing Director of SKA Advisors Pvt. Ltd. – a business advisory and consultancy service with an emphasis on Marketing and Brand management strategies. He is a recognised thought provocateur who enables teams to realise their full potential and partners them to build a sustainable profitable business model. His wide range of clients include Godfrey Phillips India Ltd., Bector Foods Ltd., Louis Dreyfus Ltd, LT Foods Ltd, GlaxoSmithKline Consumer Ltd., Warburg Pincus, Sapat Tea Ltd, Biocon India Ltd., VIP Clothing Ltd. Sunil has 40 years of hands-on experience and has developed and incubated several

successful brands.

Career History: Sunil Alagh held very senior positions in the private and public sectors. During his tenure, Britannia touched significant heights and figured in the Forbes List of 300 Best Companies in the World in 1999, 2000, and 2002. Britannia also became the most trusted Food Brand in India. Sunil is on the Board of Eveready Ind. Ltd and Prithvi Nandy Communications Ltd. He is currently the Chairperson of NIT, Meghalaya and Marketing Advisor for United Breweries, Bangalore. He is a former member of the Prasar Bharati Board of the Govt of India (equivalent to BBC in UK), Governing Board of IIM Bangalore and IIM Indore, National Institute of Design, Ahmedabad and Indian Institute of Foreign Trade, Delhi. He has been a Senior Advisor to AXA France, the Indian Advisory Board of Schindler, Member of the Board of Gati Ltd (a JV with KWE, Japan), Member of the Board of United Breweries (Heineken) and Indofil Industries Ltd. Mumbai. Sunil has been invited by reputed Investment Banks on numerous Non-Deal Shows in USA, UK, Singapore and Hongkong to present India as an attractive investment destination for foreign investors. Sunil was honoured with the Gold medal Kashalkar Memorial Award 2000 for outstanding contribution to the Food Processing Industry in India. He was a finalist for the Ernst and Young Entrepreneur of the Year Award, 2002. He was honoured with the Distinguished Alumnus Award by IIMC in 2021.



ADDRESS BY THE CHAIRPERSON, BoG

Shri. Sunil Alagh

Abstract of the Address: Mr. Sarma, Mr. Kataki, Prof Mahanta, Members of the Board, Press Members, Guests and Students. I am new to the Institute and it is my first visit here. I am really honored and happy to be addressing you on the 10th Annual convocation. I have always found it difficult to address the students who are passing out and embarking on a new journey in life. I am reminded of my days in IIM, Calcutta. Today's youth is very different from my time. Their aspirations and values have undergone a dramatic change. I read in a recent book on Aphorisms, that life is actually a game of snakes and ladders played on a chessboard. The best way to predict your future is to shape it, yourself. You will never be in a position to apply all that you have learnt here to life. You will learn many new things but values such as friendship, discipline, respect for elders and humanness that you have picked here will stand you in good stead always. You will discover that money is not everything - in the beginning it is but not as you progress. You must be rich in the end but need not be wealthy. Learn the why's in life, focus on the issues that matter and the how's will follow. You are in an Era where India is growing and all you need to do is grab the rainbow at both ends. I am really happy to see the progress of the Institute under the able leadership of the Director and his team. Thank you so much for giving me the opportunity to be here with you. My last words are never Take it easy, but Make it easy for yourself and those around you.



ADDRESS BY THE DIRECTOR

Prof. Pinakeswar Mahanta



Respected Chief Guest of the convocation, **Dr. Arun Kumar Sarma**, Director General, North East Center for Technology Application and Reach (NECTAR), Govt. of India; Respected Guest of Honour, **Shri Upananda Kataki**, Executive Director, Power Grid Corporation of India Ltd.; Respected Chairperson of the Board of Governors, National Institute of Technology Meghalaya, **Shri Sunil Alagh**, the Managing Director, SKA Advisors Pvt. Ltd.; Members of the Board of Governors; Members of the Finance Committee; Members of the Senate; Members of the Building & Works Committee; Members of the Construction Review Committee; faculty colleagues, officers and staff of the Institute, graduating students and their family members, ladies and

gentlemen — it is my pleasure and honour to welcome you all to the 10th Convocation of NIT Meghalaya.

Further, I express my sincerest thanks and indebtedness to Shri. Sunil Alagh, Dr. Arun Kumar Sarma, and Shri Upananda Kataki for accepting our invitation and gracing us with their esteemed presence. I would like to congratulate Shri Sunil Alagh on his appointment as the Chairperson of the Board of Governors, NIT Meghalaya, and I extend a warm welcome to him on his first visit to the Institute. I also express my gratitude to all the members of the Board and the Senate for attending this function.

In today's Convocation, **238 (Two hundred Thirty-eight)** students are being awarded degrees in different disciplines, out of which 147 are from Undergraduate courses, 57 from Postgraduate courses and 34 from PhD courses. For being toppers in UG and PG courses, 10 students will be receiving Institute Silver Medals, 3 students will be receiving Institute Gold Medals and 1 student will be receiving the President's Gold Medal. I extend my heartiest congratulations to all of them and wish them all the best.

I would like to take this opportunity to present a brief report and also highlight the major achievements and initiatives taken up during the period **October 2022 to November 18, 2023**. In addition, I would like to share with you some future plans to be introduced in due course of time.

Institute Achievements

I am glad to mention that NIT Meghalaya inspite of facing lots of difficulties in its temporary campus here at Shillong, has excelled in academics and research activities, thereby achieving 72nd rank in National Institutional Ranking Framework in Engineering Category in 2023. NIT Meghalaya was also amongst one of the 100 institutes chosen by the Government of India to be awarded to set up the 5G Lab. The Hon'ble Prime Minister Shri Narendra Modi inaugurated the program and distributed the Digital Certificate for the 5G Lab in virtual mode on 27th October 2023.

Academics, Departments and Centres

The Institute offers **B.Tech** and **M.Tech** programs in **Civil Engineering (CE)**, **Computer**



Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Electrical Engineering (EE), and Mechanical Engineering (ME). In addition, there are **Master of Science (MSc)** programs in **Physics (PH), Chemistry (CY) & Mathematics (MA)** and **Doctor of Philosophy (PhD)** programs in all the disciplines. The total student strength of the Institute is **966** which comprises of **618** students in the undergraduate level, **100** in the postgraduate level and **248** in the doctoral level. There are **60 (2 on lien)** highly qualified Faculty Members, **4** Adhoc Faculty members, and **80 (1 lien; 1 EoL)** very efficient staff on the rolls to cater to the academic and administrative activities. NIT Meghalaya is currently maintaining a Faculty-Student Ratio of **1:16.1**. However, the Institute is in the process of filling up the vacant sanctioned positions so as to arrive at the desired Faculty-Student ratio of **1:12**.

The Institute currently has 07 centres which along with the 09 Departments strive to achieve academic and all-round excellence. The centres are the Centre for International Relations, Design & Innovation Centre, Centre for Innovation, Incubation & Entrepreneurship, Centre for Robotics and Mechatronics, Centre for Technology Enabled Learning, Centre for Career & Development, and Computer Centre.

Implementation of National Education Policy 2020 (NEP-2020)

It is my pleasure to inform that NIT Meghalaya, in its quest for academic excellence, has started implementing **National Education Policy 2020**. The **Senate** of the Institute has approved the implementation of Interdisciplinary Courses, Skill Based Courses, Value Added Courses, Multidisciplinary Projects, Long Term Internships, Academic Bank of Credit, and Industry Internship during summer vacation.

Institute Library

The Central Library of the Institute has been growing rapidly. To accelerate the research work under UG and PG and PhD schemes, the library of the Institute is equipped with a collection of more than 15,500 text and reference books. The Library also has access to several e-books, e-databases, and e-journals. In addition, book bank facilities are available for the SC/ST category of students. The Library subscribes to full-text databases such as ScienceDirect, Springer-Link, ACM Digital Library, IEL (GP), ASCE, ASME, and one e-bibliographic database, i.e., MathSciNet. The Library also has around 5977 e-books from famous publishers such as Pearson, Wiley, Elsevier, and Springer Nature to cater to the growing information needs of the students. The Library is automated using the Library Management software, i.e., Koha. The Library subscribes to Turnitin anti-plagiarism software and Grammarly to help the researchers and faculty members. With the help of TEQIP-III, the Library set up the E-Library so that the students can browse the various E-resources subscribed by the Library. 93 Ph.D. theses of the Institute have been uploaded on the ShodhGanga till date. The Central Library of the Institute is an active member of E-Shodh Sindhu (ESS), a Consortium set up by the Ministry of Education, Govt. of India. The Library is also in the process of having its own Institutional Repository (IR) where all the e-resources produced or created by the faculty members can be stored.

Faculty Achievement

03 faculty members of the Institute, namely Prof. Pinakeswar Mahanta, Director of the Institute, Prof. Gayadhar Panda, Professor, Electrical Department, and Dr. Atanu Singha Roy, Assistant Professor, Chemistry Department, featured in the list of **World's top 2% Scientists** as per the report published recently by Stanford University USA. During the



past year, our faculty members and students have published **30 book chapters** and **208 research papers** published in reputed journals. We received **10 sponsored projects** of total value of Rs. 3.1 crores. The thrust areas of research projects are Renewable energy, Biotechnology, Food Security and Environmental Science VLSI, Artificial Intelligence, Machine Learning and Robotics, Smart Cities and Artificial Intelligence, 5G. A total of **38 consultancy works** of total value of Rs. 2.1 crores was also taken up. Dr. C. Marthong, Associate Professor, Dr. M.L. Patton, Assistant Professor, Dr. H. M. Kalita, Assistant Professor, all from Civil Engineering, and D.K. Sarma, Associate Professor, Mechanical Engineering conducted major consultancy works such as vetting of DPRs for Tourism Dept., PHED, PWD (Building and Roads), Government of Meghalaya. Our faculty members had **93 conferences publications**. 10 faculty members presented papers in conferences abroad. Dr. Susmita Sharma, Asst. Professor, CE Department presented a paper at the International Conference EGRWSE 2022 held from 15-17, September, 2022 at Izmir, Turkey. Dr. Kishore Debnath, Dr. Biplab Kumar Debnath, Dr. Bikash Kumar Sarkar, and Dr. Rajat Subhra Das, Assistant Professors, ME Department presented papers at the ICMERR-2022 Conference held from 09-11 December, 2022 at Krakow, Poland. Dr. Sanjoy Debbarma, Dr. Piyush Pratap Singh, Dr. Ksh Milan Singh, Assistant Professors, EE Department presented papers at the IEEE IAS GlobConHT 2023 Conference held from 11-12 March, 2023 at Male City, Maldives. Dr. Bunil Kumar Balabantaray, Assistant Professor, CSE Department presented the IEEE ICIP 2023 Conference at Kuala Lumpur which was held from 08-11 October, 2023. Prof. Gayadhar Panda, Professor, EE Department attended the ISGT Europe 2023 Conference held from 23-26 October, 2023 at the University Grenoble Alps, France.

Conferences/Symposia Organized

The 5th International Conference on Energy, Power and Environment (**ICEPE 2023**) was organized by the Department of Electrical Engineering, NIT Meghalaya during 15th to 17th June 2023 which was technically co-sponsored by IEEE Industry Applications Society, IEEE Kolkata, IEEE Guwahati Sub-Section with a basic theme “Towards Flexible Green Energy Technologies”. **ISSETA 2023**, the 2nd International Symposium on Sustainable Energy and Technological Advancements was organized by the Department of Electrical Engineering, NIT Meghalaya on 24th & 25th February 2023 in hybrid mode. The Department of Humanities and Social Sciences organized its 6th Annual Conference on Interdisciplinarity (**COIN-2022**) on “Genocides and Oppression: Interpretations, Intersections, and Interstices” on 19th & 20th November 2022. Department of Chemistry, NIT Meghalaya in collaboration with Department of Chemistry NEHU, organized a National Conference on Recent Advances in Chemistry: Theoretical and Computational Aspects (**RACTCA 2022**) during November 18-20, 2022.

Laboratory and other Infrastructure

The Institute has set up a **Central Instrumentation Facility (CIF)** with a total expenditure of **Rs. 12.46 Crores** at the NIT Meghalaya Permanent campus at Sohra. Currently the CIF operates various instruments such as Powder X-Ray Diffraction (PXRD), Field Emission Scanning Electron Microscope (FESEM) with EDS, Metallic 3D Printer, Multichannel Electrochemical Workstation, Fatigue Fracture Testing Machine (FFTM), Gas Chromatography and Atomic Absorption Spectroscopy (AAS).

Further, the **Central Workshop** was set up with a total cost of **Rs. 9.95 Crores** at Permanent Campus at Sohra. Students of all branches use the workshop facilities for



fabrication of their minor and major projects. The facility is also utilised by the Faculty members, the PhD students and the M.Tech students of the institute for their research and consultancy activities. The workshop comprises of Machine Shop, Foundry Shop, Fitting Shop, Welding Shop, Carpentry Shop, Electrical Shop, Automobile shop, Plumbing shop, which are well equipped with latest tools and equipment. Some of the major equipments under the central workshop are Smart Factory Automation System with IoT, production type CNC milling Machine along with 20 station ATC, Synergic Pulsed GMAW Machine, Robotics Welding System, Laser Welding Machine With 1000 W LASER, etc.

In addition to the above, the following hardware and software are acquired in the FY 2023-24 at the cost of Rs.13.69 Crores to cater the academic needs of the Institute. These hardware and software include HPC [High Performance Computing], Storage [Netgear RR4312X0-20000S - 5TB NAS Storage] & UPS 15KvA, Dell Vostro 3681 Desktop PC's & 90 nos. of HP Tower G9 PCI with HP P22V G5 FHD display monitor & 30 nos. of workstations, NKN (BSNL) line of 1Gbps (main link) and 100 Mbps (secondary/backup link) from Power Grid for the permanent campus, IT infrastructure at NIT Meghalaya, Sohra Campus, MATLAB Unlimited Campus License Suite, Microsoft M365 Cloud Services license, and Ansys Software Suite, among others.

Quality Improvement Strategies

In order to bolster the interdisciplinary research needs of the faculty and students of the Institute, and to upgrade the academic and research activities through faculty and student exchange schemes, the Institute has signed **MoUs** with reputed Institutes/Organizations namely the University of Northern Iowa, USA, Indian Institute of Technology, Hyderabad, and Indian Institute of Technology, Madras. During the last year, NIT Meghalaya also entered into Memorandum of Understanding (MoUs) with Indian Council for Cultural Relations (ICCR) Ministry of External Affairs, Government of India for admission of International students and with Indian Institute of Technology (IIT) Guwahati under INUP - i2i Program for Nanotechnology cooperation, both for 3 year periods.

The Institute has been organizing **Research Conclaves** every year. These conclaves have successfully promoted collaborations and knowledge sharing, and have provided a platform to researchers to connect with one another and learn from their peers. The 4th Research Conclave of NIT Meghalaya was held on 28th Feb & 1st March 2023. The event included keynote speeches, Oral presentations, Poster Presentations, and Research demonstrations on various topics. As many as 86 participants from NIT Meghalaya and other reputed institutions grabbed the opportunity to expand their knowledge, build relationships, and contribute to the advancement of their field.

Feedbacks are collected from all the students which they need to submit compulsorily 2 times in a semester (once before mid semester and another before end semester). The filled in feedbacks are then circulated to the respective course instructors for perusal and for needful improvements.

MERITE

I am glad to inform that NIT Meghalaya has been shortlisted by MoE, GoI as one of the 20 lead NITs for the implementation of the Multidisciplinary Education and Research Improvement in Technical Education (MERITE), which is a scheme supported by World



Bank. This scheme will support the modernization of education sector through NEP-2020 aligned reforms.

Faculty Development Program (FDP)

The Institute has conducted 5 FDPs under the AICTE Learning and Training (ATAL) scheme incurring an expenditure of Rs. 4.65 lakhs till date. Many other FDPs are also conducted under the Quality Improvement Program (QIP) utilizing a fund of Rs. 2.79 lakhs.

Building of Good Practices

The students of the Institute enjoy various **scholarships or financial assistance**. The Institute provides full exemption of tuition fees to all the students belonging to SC, ST & PH categories. In addition to this, full tuition fee remittance is also provided to students whose annual family income is less than one lakh (Rs. 62,500/- per student) and 2/3rd fee remittance is provided to the students with annual family income of one lakh upto five lakhs (Rs. 41,667/- per student). Moreover all the eligible Ph.D/M.Tech/M.Sc/B.Tech students are receiving either Institute scholarships as per norms or scholarships from various funding agencies and sources.

The Institute provides the services of **doctors and nurses** on its campus to cater to the medical needs of its faculty, staff and students. They can also avail the **Institute ambulance** which is available 24X7. The Institute has recently inducted 3 **Psychologists/Counsellors** to look after the mental wellness of the student community.

The **Center for International Relations** at NIT Meghalaya is committed to developing, promoting, and implementing international education initiatives for our students, faculty members and staffs. The center takes care of admission of international students through various agencies like ICCR, Study-in-India, DASA. There are 59 international students admitted through ICCR and Study in India in the undergraduate, postgraduate and PhD programmes. These students are from Bangladesh, Sri Lanka, Uganda, Nepal, Ethiopia, South Sudan, Somalia, South Africa and Syria.

Student Activity Centre (SAC)

The Institute has a **Student Activity Centre (SAC)** which engages the students in various extracurricular activities like games and sports, cultural, and technical. Several clubs are functioning under various sections of the SAC. Mutually beneficial awareness programmes are also conducted through these clubs and societies. The Sports Section comprises of Indoor Sports & Outdoor Sports Club. The Cultural Section comprises of Literary Club, Photography and Fine Arts Club, Music Club, & Dance and Drama Club. Under Technical Section there are Robotic Club, Coding Club, Astronomy Club, Design Club & Task Force Club. Various sporting events are organized round the year. In addition to these, the SAC organises two festivals namely "Shishir: the Cultural Event" and "Cognitia: the Technical Fest". All the clubs of SAC contribute to the organization of these two festivals annually.

Shishir 2023 was celebrated from 1st to 3rd April 2023 and events like Songs, Dance, Fashion shows, Food-fest, Photo-walk, Open-mic, and SPIC MACAY were the attractions. The Technical fest, Cognitia 2023, was organized from 2nd to 4th November 2023 and the opening function was graced by Shri. Rakkam Sangma, Hon'ble Minister of Education,



Government of Meghalaya, and Shri. Gunanka D.B., IFS, Joint Secretary, Department of Planning & Executive Director, MBDA & MNR, Government of Meghalaya. Cognitia 2023 had various interesting events organized by Power Grid, Taskforce, Robotics Club, Coding Club, Photography Club, Astronomy Club, and the Departments of the Institute.

Student Participation/Achievements

The Institute encourages its students to participate in various inter-institute or national co-curricular competitions. Recently our students participated in Inter NIT games at NIT Durgapur and also at IIT Guwahati. Our students have also excelled in competitive examinations. Some of the notable laurels won by our students are shown below:

- **NIT Meghalaya Boys' Football Team** won the runners-up position in the Inter NIT Football Tournament organized by NIT Durgapur from 3rd to 5th November 2023. **Anthony N. Sangma** (B20ME006) was adjudged the **Best Footballer** of the tournament.
- **Subhadeep Sinha** (B21EC004) won the 2nd position in Power Lifting (66 KG Category) at the Inter NIT Power Sports Meet organized by NIT Durgapur from 3rd to 5th November 2023.
- **Kumar Gaurav** (B20CE008) secured the 1st Position for best Prototype in Education reform for Higher Secondary and Senior Secondary Students. (Category: Entrepreneurship) for Impact Week 2023 organized by Prime Meghalaya.
- **Om Prakash Yadav** (B22ME025) received the Merit Certificate (1st prize) for attending the state level National Science fair for making Ultra Sonic Smart Goggles for Visually Impaired Human Beings conducted by Keshav Memorial Institute of Commerce and Sciences On 11th May 2022.
- **Divyasree Dev** (B20CS022) was one of the top 10 female participants of the Snack Down (International Coding contest spanning over months) Code Chef. She was also one of the top 30 participants at the GE Digital Code-A-Thon (Coding Contest) GE Digital National and also one of the top 151 participants out of 10k applicants at the Flipkart Runway by Flipkart.
- **Gaurav Joshi** (B22ME004) was awarded the 2nd Position in Competitive Coding namely the Code Fest Round 2 organised by North Eastern Hill University (NEHU).
- **Kalpesh Vishwakarma** (B20EC003) participated in the Code Kaze 2022, a National level Coding contest organized by Code Ninja and secured an All India Ranking of 39.
- 12 students cleared **GATE**, 2 students cleared **GRE**, and 15 students opted for **higher studies** (3 Students Abroad).

Prestigious Fellowship received by the Students

The Ministry of Electronics and Information Technology has approved 2 PhD candidates for funding under the **Visvesvarya PhD scheme** in 2023-2024.

- **Divyasree Dev** (B20CS022) was among 55 scholars selected from 14k+ applicants



across the Asia Pacific region for receiving the APAC Generation Google Scholarship. She also received the Grace Hopper Celebration Scholarship from AnitaB.org., the HPAIR Harvard WECODE Conference Scholarship from Harvard University, the McKinsey NGWL Asia Fellowship from McKinsey, and the Mentee Fellowship at Microsoft Intern Engage organized by Microsoft.

- **Shubhavi Kukreja** (B21CS018) was among the top 250 across 30000 applications all over India for receiving the Women Engineers Fellowship by Google.
- **Dr. Sharat Sarmah** (P18CH006) joined IISc Bangaluru, DBT (GOI) for Post-Doctoral Research under the Research Association Position.
- **Shaheen Gulshanah** (P18PH005) and **Pallabi Saha** (P23PH002) received the Inspire Fellowship under DST, Govt. of India.

Best Paper/Best Poster Awards received by the Students

- **Sumant Kumar Dalai** (P22EE002) received the International Best Paper Award at the IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation (SEFET) 2023 at SOA University, Odisha, India held from 09-12 August 2023.
- **Mr. Abhishek Chauhan** (P19EE003) won the Best Paper Award at the 5th International Conference on Energy, Power and Environment (ICEPE-2023) held at NIT Meghalaya from 15-17 June 2023.
- **Kakali Baruah** (P20CH002), received the Best Poster awards at the 9th Interdisciplinary Symposium on Materials Chemistry, BARC held on December 7-10, 2022 and also at the Physical Chemistry Symposium 2023 at IIT Kanpur (Inaugural Conference of SoPhyC-2023).
- **Ankita Agarwal** (P19CH005) and **Sona Lyndem** (P20CH001) received the Best Poster awards at the International Symposium on Recent Trends in Chemical Sciences ETCS-2023, NEHU held on 2-4 March, 2023.
- **Jayshree Barman** (P18CH005) won the Best Paper presentation in the Conference on Electrochemistry for Industry, Health and Environment (BARC).
- **Pragyan Jyoti Hazarika** (P18CH003) received the Best Poster Award at the CESC 2023, IISER Trivandrum.
- **Sanchia Mae Kharphanbuh** (P20PH001) received the Best Poster Award at the 30th National Conference on Condensed Matter Physics (Condensed Matter Days-2022) organized by NIT Nagaland on 14-16 December, 2022.

Placement Records

I am delighted to inform you that over 80 companies from diverse fields participated in the placement drive making a total of 199 offers. I am also glad to inform that 79.6% of B.Tech. students who have graduated this year have been placed. The highest package of



Rs. 32 lakhs per annum was offered by Thoughtspot. The average salary is Rs. 11.1 lakhs per annum. This bears testimony to the commendable endeavour of our Centre for Career Development and the quality of our students. Thoughtspot, AutoDesk, C-Dot, BPCL, BEL and others made offers in double digits. Other prominent recruiters included Vedanta Ltd., L&T Construction, IGL, Deloitte, Nokia, Mahindra & Mahindra Ltd., Suzuki Motors, KEC and GAP. Edgeverve was the largest recruiter with 16 offers in various specializations. I am also glad to inform you that various companies have already started recruiting the current final year students and many students have already been placed in the placement drive. Some of the major companies who have recruited the final year students so far are Winjit, Deloitte, Alstom and L&T offering 12, 7.6, 6.8, and 6.5 lakhs per annum, respectively. I am sure that our students will keep up to the reputation of the institution and continue bagging lucrative offers.

Alumni Networking

The Institute has a more than 1728 alumni. The 1st Alumni Chapter of NIT Meghalaya Alumni Association was formally constituted in Bangalore on 28th July 2019. Some of the alumni of our institute have started their own start-ups. Notable among these include:

- Mr. Shubham Charan (B12EE014) & Mr. Aman Kumar Jain (B12CS025) founded **Varistor Technologies Pvt. Ltd.** which specializes in e-commerce, retail, manufacturing, education, and technology.
- Mr. Abhishek Chand (T19CE016) started **Delta Digit** which is the media source for the latest technology news, gadget reviews, deals, price lists, buy guides, PC, science & technology news.
- Mr. Prem Prabhat (B13EC007) is founded **Amplitech Automation Pvt. Ltd** which provides innovative, efficient, and sustainable solutions through exceptional client services.
- Mr. Abhishek Acharya (B13EE014) is the Director of **Nibrus Technologies Private Limited**, which is an aerial survey and drone manufacturing company.
- Mr. Nikhil Tripathi (B13ME017) cofounded **Bijak** in 2019, a business-to-business (B2B) mobile trade platform for the agricultural sector. I am happy that one alumni meet was conducted yesterday (17th November 2023) in the campus.

National and International Observance and Celebration Programmes

The Institute, through its various clubs and sections, organised various national and international observance and celebration programmes. Notable ones are highlighted below:

The **Model United Nations (MUN)** was conducted by the MUN Committee and Literary Club at NIT Meghalaya on the 1st and 2nd of April 2023. It provided an excellent platform for the students to showcase their debating skills and knowledge of global issues. The event helped to build leadership skills and fostered a spirit of teamwork among the participants.



The Institute observed the **World Environment Day Celebrations** on 05th June 2023 starting with a plantation drive which was followed by a Keynote lecture on the Topic 'Environmental sustainability and combating plastic pollution' delivered by Dr. Umesh Mishra, Professor, Department of Civil Engineering, NIT Agartala.

The Institute observed the **9th International Day of Yoga** on 21st June 2023 with a yoga session participated by the faculty members, officers, staff and students of NIT Meghalaya.

NIT Meghalaya Sports & Games section conducted several sports events with full enthusiasm such as Tug of War, Badminton, Table Tennis, and Chess to celebrate the **National Sports Day 2023** in which students, staff and faculty members participated.

The Institute, on 30th August 2023, felicitated 03 inspiring individuals/groups who have made our nation proud, and whose contributions resonate with the spirit of our **Meri Maati Mera Desh** campaign (Phase I). The individuals/groups are Mr. Lamphang Syiemlieh, who represented India at the CauX Artist Program in Switzerland, Mrs. Trinity Sahoo, a Padma Shree Awardee renowned for her expertise in Turmeric farming, and the dedicated Nursing Community of Bethany Hospital, Shillong for their enormous contribution during the COVID-19 pandemic.

Inauguration of **Hindi Pakhwada 2023** and celebration of **Hindi Diwas programme** were organized in the Institute from 14th to 29th September 2023, wherein reputed speakers from institutes of repute like Northeastern Hill University, Shillong were invited for talks and interaction.

NIT Meghalaya conducted a Swachhata Drive on 1st October 2023 for one hour under the **Swachhta Hi Sewa 2023 (Special Campaign 3.0)**. The Deputy Commissioner of East Khasi Hills graced the occasion. The Institute also organized Swachhata awareness rally on 2nd October 2023 on the occasion of Mahatma Gandhi's birth anniversary. Around 300 participants including faculty, staff, and students participated in the rally. NIT Meghalaya collaborated with NIT Arunachal Pradesh in organizing a National Conference on Gandhi Jayanti. A special swachhata drive was also carried out in the permanent campus at Sohra on October 7, 2023. Two special invited talks were also arranged on 13th October 2023. The invited talks were delivered by two eminent researchers and academicians.

The **Khadi Mahotsav 2023** launched by Ministry of MSME with the theme 'Buy Khadi; Wear Khadi, Be Vocal for Local' was observed by NIT Meghalaya from 02nd October to 31st October 2023 on the Institute campus by inviting local vendors for exhibition and promotion of Khadi Products.

Amrit Kalash Yatra was organized in the Institute on 12th October, 2023. The faculty, staff & students participated in the yatra and took the panch pran pledge. Local staf and students brought saplings which were planted in earthen pots.

The Institute observed **Vigilance Awareness Week 2023** on the theme "Say no to corruption; commit to the Nation" from 30th October to 5th November 2023, wherein Shri Bhartendar Sharma, Superintendent of Police, Head Branch, Central Bureau of



Investigation (CBI), ACB, Shillong was present as Chief Guest during the Inaugural session of the program. Various events were organized during the week. Prof. Streamlet Dkhar, CVO, NEHU graced the closing function of the Vigilance Awareness Week.

The Institute celebrated the International Year of Millets 2023 by conducting invited lectures, cooking recipe competition, poster competition during 2022-2023.

The Student Activity Centre of the Institute is currently organizing a series of invited talks on the occasion of celebration of **AMRIT Kaal Vimarsh**. Till date, eminent personalities have delivered talks on various topics like NEP-2020, Space Technology Applications, Culture, Ayurveda, etc.

Institutes Outreach activities

The Institute outreach activities have been actively taking part in various programs benefiting the Institute, the society and the state as a whole. Various programs have been held in promoting cleanliness drive and also in the recognition of local heroes contributing to the state and to the nation as well.

The Unnat Bharat Abhiyan (UBA) cell of the Institute has identified 5 villages namely Kutmadan, Ryngud, Nongpriang, Swer and Sohra-Rim. The main aim of the Unnat Bharat Abhiyan is to give a tech-boost at the grass root level to these villages. Action plans have been formulated and teams have been set up to visit the villages and identify their problems. The Institute hopes to find financially viable schemes and prepare a roadmap for holistic rural development.

The **Ek Bharat Shreshtha Bharat Club (EBSB)** of NIT Meghalaya has been actively conducting various programs throughout the year. Recently a program on “Speech Competition” on the topic of “Lesser-Known Places and Events of Independence” was held on 15th September 2023.

Building & Infrastructure Development at Permanent Campus

The Institute is currently operating from the temporary campus at Shillong. The construction works in the permanent campus at Saitsohpen, Sohra is progressing under the overall supervision of RITES Ltd., the Project Management Consultants (PMC).

In the Package I constructions, comprising of Administrative Building, Academic Buildings (A, B, C & D), Lecture Hall, Library cum Data Centre Building, Workshop Building, ESS-I and ESS-II, the works are in completion stage with overall physical progress of 98%. The overall average physical progress of works under Package II & III comprising of Hostels & Residential Quarters, Director’s Residence etc, is about 57%. It may be mentioned that these works under Packages II & III were stopped during 2017-18 due to non-receipt of fund from Ministry, local issues, litigation between contractors and RITES Ltd. (PMC). Moreover, with the restrictions imposed due to Covid-19 during 2020-21, the works were progressing in a slow pace.

The balance construction works under packages II & III are in the process of re-tendering and these works are expected to be completed by August 2024. The other development works, namely, internal campus roadworks, water storage reservoir, sewerage system, external electrical works being assigned to CPWD etc. are in good



progress. The **NOC for Right of Way (RoW) for drawing of 33 KV line** to the permanent campus and the **NOC for tapping water supply** from the nearby stream (Wah Khlek Khlek) have been obtained from the local Durbar in **August 2023** after negotiations with the local citizens of Saitsohpen, Sohra. These works have been started and will be completed within 6-7 months' time. With the above developments/progress, we may be able to shift to the permanent campus by August 2024.

To conclude, I must appreciate the Ministry of Education, Government of India, for sanctioning fund to cater to the expenditure of NIT Meghalaya for the session 2023-2024.

Last but not the least, once again I congratulate the graduating students upon the successful completion of their academic courses at NIT Meghalaya. Being a teacher and mentor, we all hope with expectation that the students with their hard-earned degrees will grow professionally in their chosen area and contribute to making our country strong and self-reliant in all fields. I wish them all success in their future endeavour and hope that they will make NIT Meghalaya proud for being their alma mater.

Thank you!

Jai Hind!



GRADUATION DATA: 2023

Disciplines	B. Tech.	M. Tech.	M.Sc.	Ph. D.	Total
Civil Engineering	25	16		1	42
Computer Science Engineering	38	5		7	50
Electronic & Communication Engineering	28	3		4	35
Electrical and Electronics Engineering	30	2		2	34
Mechanical Engineering	26			7	33
Chemistry			14	3	17
Mathematics			7	6	13
Physics			10	3	13
Humanities and Social Sciences				1	1
Total	147	26	31	34	238



PRESIDENT GOLD MEDAL

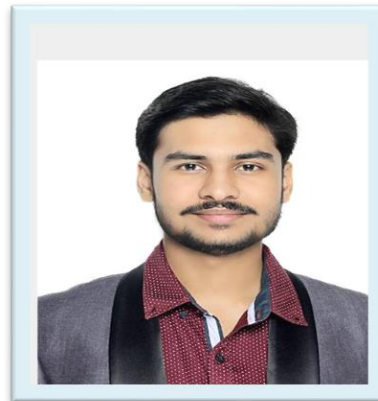


Salik Ahmad
B19CE019
B.Tech
Civil Engineering

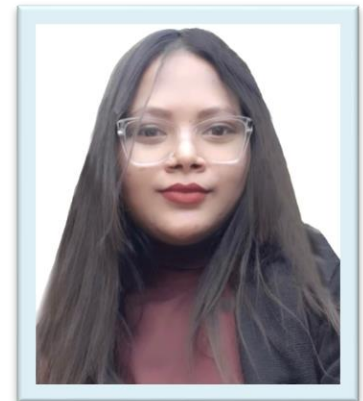
INSTITUTE GOLD MEDAL



Deeshant Bhattacharjee
B19CS037
B.Tech
Computer Science Engineering



Akshat Choudhary
T21CS005
M.Tech
Computer Science Engineering



Prerana Bakli
S21CY009
M.Sc
Chemistry



INSTITUTE SILVER MEDAL (B. TECH)



Salik Ahmad
B19CE019
B.Tech
Civil Engineering



Deeshant Bhattacharjee
B19CS037
B.Tech
Computer Science Engineering



Jasthi Monika
B19EC013
B.Tech
Electronics and Communication
Engineering



Pravendra Pratap Singh
B19EE029
B.Tech
Electrical Engineering



Debayan Ghosh
B19ME002
B.Tech
Mechanical Engineering



INSTITUTE SILVER MEDAL (M. TECH)



Rizvi Naumaan Nayyar
T21CE008
M.Tech
Civil Engineering



Akshat Choudhary
T21CS005
M.Tech
Computer Science Engineering

INSTITUTE SILVER MEDAL (M. Sc)



Prerana Bakli
S21CY009
M.Sc
Chemistry



Lily Sharon Lyngdoh
Marshilong
S21MA011
M.Sc
Mathematics



Ark Kaushik Chakraborty
S21PH008
M.Sc
Physics



LIST OF DEGREE RECIPIENTS

DOCTOR OF PHILOSOPHY

Roll No.	Name	Thesis Title	Supervisor
Department: Chemistry			
P18CH006	Sharat Sarmah	Exploring the interactions of natural bioactive compounds with the carrier proteins: Impacts of glycation, metal ion and binding with DNA	Dr. Atanu Singha Roy, Asst. Prof, CY Dept
P18CH001	Siddheswar Rudra	Synthesis of Composite Nanomaterials for Energy Storage Application	Dr. Gitish K. Dutta, Assoc Prof, CY Dept
P18CH007	Gitumoni Kalita	Bronsted Acid Catalysed Electrophilic Activation of Tertiary Propargylic Alcohols to Synthesize Various Indenes, Benzopyrans and Conjugated Diene-diones	Dr. Paresh Nath Chatterjee, Associate Professor, Department of Chemistry, NIT Durgapur, (on lien from NIT Meghalaya)

Department: Computer Science and Engineering

P18CS005	Jerry Wattre Sangma	Clustering Techniques for Multiple Data Streams	Dr. Yogita, Asst Prof , NIT Kurukshetra (on lien from NIT Meghalaya)
P18CS002	Nihar Pradhan Ranjan	Design, Development and Performance Simulations of Blockchain Enabled Smart-City Applications	Dr. Akhilendra Pratap Singh, Asst Prof, CS Dept



Roll No.	Name	Thesis Title	Supervisor
P17CS002	C. Lalengmawia	Optimization of Quantum Circuits with Efficient Mapping Algorithms	Dr. Alok Chakrabarty, Asst Prof, CS Dept
P18CS003	Kamal Das	"Quality of Service improvement in IEEE	Dr. Soumen Moulik, Asst Prof, CS Dept
P18CS004	Pallabi Sharma	Design and Development of Efficient Methods using Deep Learning for Diagnosis of Colorectal Cancer	Dr. Bunil Kumar Balabantaray, Asst Prof, CS Dept
P19CS013	Subhranshu Sekhar Tripathy	Mist to Fog (M2F) Balancer for Access Networks in Smart Cities: Model, Performance, Security and Applications	Dr. Diptendu Sinha Roy, Assoc Prof, CS Dept
P16CS002	Md Ajij	Quasi-straight Edge Segments: An Exploration and Related Applications	Dr. Sanjoy Pratihar

Department: Electrical Engineering

P19EE005	Satyavarta Kumar Prince	Protection Schemes for the Operation of DC microgrid in Grid-Connected and Islanded Modes	Prof. Gayadhar Panda, Professor, EE Dept
P19EE007	Prakash Chandra Gupta	Analysis and Control of Chaos, Multistability, Hidden Attractors Behaviors in Power System Models: A Nonlinear Dynamics Approach	Dr. Piyush Pratap Singh, Asst. Prof, EE Dept



Roll No.	Name	Thesis Title	Supervisor
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Department: Mechanical Engineering

P16ME004	Aabir Das	Performance Enhancement of a Falling Film-based Liquid Desiccant Dehumidifier with Surface Geometry Modifications	Dr. Rajat Subhra Das, Asst Prof, ME Dept
P18ME006	S V N Hanuman Nudurupati	Local defect resonance based nonlinear intermodulation and resonant air coupled testing of fiber reinforced polymer composite plate	Dr. Tanmoy Bose, Asst Prof, ME Dept
P17ME001	Akash Chandrabhan Chandekar	Investigation of the Mixing Characteristics of BioCNG and Air without and with the Presence of Engine Vibration at the Intake Manifold of Dual-Fuel Diesel Engine	Dr. Biplab Kumar Debnath, Asst Prof, ME Dept
P16ME007	Neeraj Kumar	Electro-hydrostatic transmission system control for maximum power tracking of horizontal axis wind turbine with pump fault	Dr Bikash Kumar Sarkar , Asst Prof, ME Dept
P17ME003	Paladugu Venkaiah	Performance Analysis of Electrohydraulic Horizontal Axis Wind Turbine Pitch Control System	Dr Bikash Kumar Sarkar , Asst Prof, ME Dept



Roll No.	Name	Thesis Title	Supervisor
P17ME004	Vinod J	Design and Analysis of Controller for Electro-hydraulically Actuated Inlet Guide Vane System of Francis Turbine	Dr Bikash Kumar Sarkar , Asst Prof, ME Dept
P16ME003	Pritam Majumder	Improvement in hydrodynamic performance of underwater vehicle propeller with energy saving devices	Dr. Subhendu Maity, Asst. Prof, ME Dept

Department: Civil Engineering

P16CE003	Karma Hissey Lepcha	Numerical study on the structural behaviour of lean duplex stainless steel rectangular tubular beams with web perforations	Dr. M. Longshithung Patton, Asst Prof, CE Dept
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Department: Electronics and Communication Engineering

P17EC003	Sushanta Gogoi	Development of High-Performance Hardware Architectures for Optimized Motion Estimation Algorithms for High Efficiency Video Coding	Dr. P. Rangababu, Asst Prof, EC Dept
P18EC002	Moirangthem Santosh Kumar Singh	Design and Analysis of Compact Implantable Antenna for Biotelemetry Applications	Dr. Abhishek Sarkhel, Asst Prof, EC Dept



Roll No.	Name	Thesis Title	Supervisor
P17EC005	Gudmalwar Ashishkumar Prabhakar	Development of Speech Emotion Recognition System by Extracting Emotion Dependent and Phase Based Features	"Dr. Ch. V.Rama Rao, Asst Prof, ECE Dept,
P18EC001	Srikant Kumar Beura	Inexact Arithmetic Circuits for Error Tolerant Applications: A way towards Implementation, Circuit Level Optimization and Analysis	Dr. Bishnulatpam Pushpa Devi, Asst. Prof, EC Dept

Department: Physics

P18PH002	Eliyash Ahmed	Combined Theoretical and Experimental Scrutiny of Vacancy Disorder Dynamics of w-Zinc Oxide	Dr. K. Senthilkumar, Asst. Prof, PH Dept
P18PH001	Arindom Phukan	Investigation of Laser Induced Breakdown at a Metal-Liquid Interface under Extrinsic and Intrinsic Bias	Dr. Arpita Nath, Asst Prof, PH Dept
P17PH001	Sikha Sarmah	Study of Dielectric and Magnetic Properties of Transition element (Mn, Cr) and Non- Magnetic element (Al, Mg) substituted Co Based Ferrites	Dr. Tribedi Bora, Asst. Prof, PH Dept



Roll No.	Name	Thesis Title	Supervisor
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Department: Mathematics

P16MA002	Binandita Barman	Delay-induced stability analysis and harvesting results in some population models	Dr. Bapan Ghosh, Asst. Prof, MA Dept., IIT Indore
P18MA003	Manik Das	Study on MHD Non-Newtonian Fluid Flow with Heat and Mass Transfer Past a Stretching Sheet	Dr. Bidyasagar Kumbhakar, Asst Prof, MA Dept
P17MA002	Ajit Kumar Gupta	Hypertopologies and Relations among Them	Dr. Saikat Mukherjee, Assoc Prof, MA Dept
P18MA001	Thota Siva	Theoretical investigation of electrokinetic transport of couple stress fluid through microfluidic channels	Dr. Bidyasagar Kumbhakar, Asst Prof, MA Dept
P18MA004	Aritra Narayan Hisabia	On Semipositivity of Matrices Related to Nonnegative Orthant and Lorentz Cone	Dr. Manideepa Saha, Asst. Prof, MA Dept
P20MA001	Jahnabi Chakravarty	Iterative Methods for Solving Interval Linear Systems	Dr. Manideepa Saha, Asst. Prof, MA Dept

Department: Humanities & Social Sciences

P17HS001	Arundhati Ashangbam	Oppression and the Jewish Masculine Identity in Primo Levi's Select Works	Dr. Paonam Sudeep Mangang, Assoc Prof, HS Dept
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MASTER OF TECHNOLOGY

Civil Engineering	
Roll No.	Name of students
T21CE001	Sarad Aryal
T21CE002	Ronak Kumar Jatav
T21CE003	Swarnima Dev
T21CE004	Amrendra Agrawal
T21CE005	Nabendu Biswas
T21CE006	Arabinda Manna
T21CE007	Rehan Fazal
T21CE008	Rizvi Naumaan Nayyar
T21CE009	Aditya Manoj Thakare
T21CE010	Kriti Kumari
T21CE011	Stevenson Rani
T21CE012	Moringkhul Molung Kanshouwa
T21CE013	Rishav Kumar
T21CE014	Amrutha K
T21CE015	Vignesh O S
T20CE009	Bilal Ahmad Thoker

Computer Science and Engineering	
Roll No.	Name of students
T21CS002	Sanchiano Suja
T21CS003	Samrat Sarkar
T21CS004	Ginish Singha
T21CS005	Akshat Choudhary
T21CS006	Bilman Sengkan D. Shira

Electronics and Communication Engineering	
Roll No.	Name of students
T21EC001	Nivedita Chaurasia
T21EC003	Adarsh V Parekkattil
T21EC005	Subam Roy

Electrical Engineering	
Roll No.	Name of students
T21EE001	Vianny Wahlang
T21EE003	Touseef Hasan Kazmi



MASTER OF SCIENCE

Department of Chemistry	
Roll No.	Name of students
S21CY001	Somya Sharma
S21CY002	Aswin S
S21CY003	Moumita Debnath
S21CY004	Abhijit Gharphalia
S21CY006	Dharitree Das
S21CY007	Swagatam Dhara
S21CY008	Jintu Chutia
S21CY009	Prerana Bakli
S21CY010	Aneesha S L
S21CY012	Gaurav Raj
S21CY013	Bipasha Saikia
S21CY014	Sujata Kalita
S21CY015	Ram Wami Toi
S21CY016	Mrinmoyee Saikia

Department of Physics	
Roll No.	Name of students
S21PH001	Sneha Roy
S21PH002	Debojyati Koner
S21PH003	Rajaganesh S S
S21PH005	Dron Chakradhari
S21PH008	Ark Kaushik Chakraborty
S21PH009	Johnny J
S21PH011	Pangkam G. Momin
S21PH013	Supriya Borgohain
S21PH014	Sourin Choudhury
S21PH015	Sudesna Dehury

Department of Mathematics	
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S21MA004	Soumya Ranjan Behera
S21MA007	Abhay Dhiman
S21MA008	Santoshi Subhalaxmi Ray
S21MA009	Ibakitbok Iawphniaw
S21MA011	Lily Sharon Lyngdoh Marshilong
S21MA012	Lawanbiang Basan



BACHELOR OF TECHNOLOGY

Civil Engineering	
Roll No.	Name of students
B19CE001	Lelangki Pariat
B19CE002	Ricaldonald F Sweetly
B19CE003	Doliza Dolma Kharlyngdoh
B19CE004	Rishanbor Synshiang
B19CE006	Altrej Sansara Swer
B19CE007	Baiahunlang Lyngdoh
B19CE008	Lamneithem Pretty
B19CE010	Bondstrong Lyngdoh Ryntathiang
B19CE013	Chesram R Marak
B19CE014	Ritesh
B19CE015	Bhukya Bhaskar
B19CE016	Mebankerlang Pathaw
B19CE017	Ringki M Momin
B19CE013	Chesram R Marak
B19CE018	Saptarshi Panda
B19CE019	Salik Ahmad
B19CE021	Amish Anand
B19CE022	Shiwani Kumari
B19CE023	Neekshitha Reddy Dyasani
B19CE024	Balivada Venkata Narayana Sarma
B19CE025	Paila Manikanta Reddy
B19CE027	Anchal Sharma
B19CE030	Mohamed Abdulkadir Osman
B19CE031	Sweety Merry Jyrwa Nongsiej

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B19CS005	Pintu Bordoloi
B19CS006	Meenakshi Kharel
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B19CS012	Madhushudhan Mondal
B19CS013	Shivam Pandit
B19CS014	Ram Singh
B19CS015	Raushan Kumar Singh
B19CS016	Viraj Vaishnav
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B19CS019	Swarna Deepika Vissapragada
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B19CS022	Bhawana Maurya
B19CS023	Prashant Kumar
B19CS024	Keshav Krishna
B19CS025	Revalla Tarun
B19CS026	Akhilesh Kumar
B19CS027	Ritik Mani Yadav
B19CS028	Kumar Shivankar
B19CS029	Rohit Patidar
B19CS030	Md Shaim Kibria
B19CS031	Vikrant Singh
B19CS032	Iftekhar Mahmood Anim
B19CS033	Swastik Jena
B19CS034	Pranav Pratap Singh
B19CS036	Md Abu Motaleb
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B19CS038	Avishek Paul
B19CS039	Dorababu Arigi



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Roll No.	Name of students
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B19EC003	Victor Sharma
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B19EC010	Shashank Kumar
B19EC012	Konduru Hitesh Varma
B19EC013	Jasthi Monika
B19EC014	Mayom Butich Maker
B19EC015	Chalcedony Buhroy
B19EC016	Rosefulda Swer
B19EC017	Akash Patel
B19EC018	Prettynis Hadia
B19EC019	Budi Manoj Kumar
B19EC020	M Navamani Prasath
B19EC021	Kartikey Gupta
B19EC022	Vineet Prafulla Malewar
B19ec023	Harshit Sagar
B19EC024	Taramatta Poorna Pramod
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B19EC029	Konda Lalith Datta
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B19EE009	Lambha Swer
B19EE011	Michael Mihsallan Langstieh
B19EE012	Ram Shilla
B19EE013	Riti Kumari
B19EE014	Kaushik Kumar Saha
B19EE015	John Kennedy Diengdoh
B19EE016	Banti Kumar
B19EE017	Banson Markstar Mawlein
B19EE018	Renialson Mawrie
B19EE019	Sasapu Hemavadan Naidu
B19EE020	Roushan Kumar
B19EE021	Niraj Kumar
B19EE022	Vishal Kumar
B19EE023	Aviral Kumar Choubey
B19EE024	Ankit Kumar
B19EE025	Gajula Venkata Durga Sai Nagamani
B19EE026	Bhukya Sainath
B19EE027	Yash Shyam Bagoria
B19EE028	Satvik Singh
B19EE029	Pravendra Pratap Singh
B19EE031	Pynkupborlang Mawlieh
B19EE030	Sikandar Kumar
B19EE032	Allenbe Ruston Kharbani



Mechanical Engineering	
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B19ME005	Manas Kumar
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B19ME008	Anubhav Dixit
B19ME009	Denspoul Sohshang
B19ME010	Perla Vasudeva Rao
B19ME012	Majjari Ganesh Kumar
B19ME013	Ardondor Jeengaph
B19ME015	Rohit Kumar Prasad
B19ME016	Abandalin Wanbah
B19ME017	Wanpynbha Lyngdoh
B19ME018	Egideo Bhabok Thongnibah
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B19ME026	Ritik Kartik Lote
B19ME027	Sandeep Kumar Singh
B19ME028	Arohi Kashyap
B19ME029	Pavan Kumar Gugulothu
B19ME030	Bilal



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Convocation 2022





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