# राष्ट्रीय प्रौद्योगिकी संस्थान गोवा National Institute of Technology Goa

# 10<sup>th</sup> Convocation

## September 22 | 2024

#### **Chief Guest**

Dr. Samir V. Kamat

Secretary, Department of Defence R&D and Chairman, DRDO, Govt. of India

#### **Guest of Honour**

## Mr. Mansoor Rahimat Khan

Co-founder & CEO, Beatoven.ai NIT Goa Alumni B.Tech Batch : 2011 - 2015

## Prof. Omprakash R. Jaiswal

Director & In-charge Chairperson Board of Governors, NIT Goa

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#### **About National Institute of Technology Goa**

The National Institute of Technology Goa (NIT Goa) is a premier national-level technical institute in India established in 2010 by an act of parliament (NIT Act, 2007 and NIT (Amendment) Act, 2012). NIT Goa is an autonomous institute functioning under the aegis of Ministry of Education (MoE), Government of India, and has been declared an "Institute of National Importance". The Institute is dedicated to its academic excellence and aims to produce quality Engineers and Scientists.

The Institute offers undergraduate programmes in Five Engineering Departments: (1) Computer Science and Engineering (CSE), (2) Electronics and Communication Engineering (ECE), (3) Electrical and Electronics Engineering (EEE), (4) Civil Engineering (CVE), and (5) Mechanical Engineering (MCE). The Institute offers M.Tech. Programmes in the Three disciplines: (1) Computer Science and Engineering (CSE), (2) VLSI and (3) Power Electronics and Power Systems (PEPS). The Institute also offers Ph.D. degree in various stream of Engineering, Applied Sciences, Technology and Humanities & Social Sciences

The Institute is well-equipped with laboratories, workshops and has an up-to-date Library with rich and comprehensively high-quality print and electronic resources. The Training and Placement Cell of NIT Goa provides opportunities to students to shape their career in various companies from varied sectors: Research and Development, Engineering & Technology, IT/ Software Development, Analytics, Finance, Education, Consulting, Public Sector Undertaking and others. Additionally, the Institute has witnessed an increase in the number of internships offered to pre-final year students. NIT Goa signed many MoUs and Agreements with other academic & research institutes, industries and organizations to facilitate faculty and student exchange programs, knowledge sharing, carrying-out interdisciplinary research works, joint research guidance, curriculum and course developments, joint workshop, conferences, seminars, and many more student and faculty development programs.

All the faculty members of NIT Goa are dedicated to training the students with a world-class education. Faculty members are actively involved in research works and have executed many funded R & D projects. They have been publishing research articles and book chapters regularly. Many faculty members have been granted and many have filed patent/patents. Institute has organised several GIAN courses, STTP, FDP, Workshops, National and International Conferences etc. The Institute also organises outreach activities/initiatives like 'Rashtriya Aavishkar Abhiyan (RAA)', 'Unnat Bharat Abhiyan', 'Swachh Bharat', 'FiT India' programmes, and many more.

The students of NIT Goa are actively involved in various co-curricular activities through students' clubs, councils, and study circles like SPECTRA, TESLA, QUANTA, CESCO & META etc. The SPIE and IEEE student chapters of the Institute organise various scientific and research-oriented events. The annual techno-cultural fest of NIT Goa is SAAVYAS. For overall development of the students, the Institute also provides sports facilities. The students also celebrate cultural festivals of different states of India to maintain unity in diversity and it is a collective effort by the Institute to inculcate integral education of mind and body.

#### **Our Vision**

National Institute of Technology Goa shall emerge as one of the nation's pre-eminent institutions. Through its excellence, it shall serve the Goan society, India and humanity at large with all the challenges and opportunities.

#### **Our Mission**

- NIT Goa strives for quality faculty, good students and excellent infrastructure.
- Strives for excellence, through dissemination, generation and application of knowledge by laying stress on interdisciplinary approach in all the branches of Science, Engineering, Technology, Humanities and Management with emphasis on human values and ethics.

#### **Board of Governors**

**Prof. Omprakash R. Jaiswal** In-charge Chairperson & Director, NIT Goa

#### Mrs. Saumya Gupta

Addnl Secretary/Jt. Secretary (Technical Education), MHRD, Govt. of India

**Sh. Sanjog Kapoor** Financial Advisor, Dept of Higher Education, MHRD, Govt. of India

**Dr. Venkatesh Ganesh Prabhu Desai** Chairman, Chandranath Education Society, Assolda, Quepem, Goa

#### **Dr.Mahesh Dhavalikar**

Professor, Department of Mechanical Engineering, Goa Engineering College, Farmagudi, Ponda, Goa

**Dr. Suresh Mikkili** Associate Professor, Department of Electrical and Electronics Engineering, NIT Goa

**Dr. Lalat Indu Giri** Assistant Professor, Department of Electronics and Communication Engineering, NIT Goa

**Prof. B. G. Fernandes** Professor & Head of Department of Electrical Engineering, IIT Bombay

**Dr. Shashidhar K. Kudari** Registrar, NIT Goa

#### Senate Committee

**Prof. Omprakash R. Jaiswal** Chairman & Director, NIT Goa

#### Prof. N. C. Shivaprakash External Member, Professor, Department

Instrumentation, IISc, Bengaluru

#### Prof. Vasant Matsagar

External Member, Professor, Department of Civil Engineering, Indian Institute of Technology, Delhi

#### Prof. Smita Jha

External Member, Professor, Department of Humanities & Social Science, Indian Institute of Technology, Roorkee

Dr. Shashidhar K. Kudari Member Secretary, Registrar, NIT Goa

All Deans of NIT Goa, Member

All HoDs of NIT Goa, Member

#### **Deans**

**Dr. C. Vyjayanthi** Dean, Academics

**Dr. Damodar Reddy Edla** Dean, Students Welfare

**Dr. Amol D Rahulkar** Dean, Faculty Welfare

**Dr. Chirag Modi** Dean, Research & Consultancy

**Dr. Velavan Kathirvelu** Dean, Planning & Development

**Dr. Anirban Chatterjee** Dean, Institutional Relations & Alumni Affairs

#### **Associate Deans**

**Dr. Shivnarayan Patidar** Associate Dean, Academics

**Dr. Lokesh Kumar Bramhane** Associate Dean, Students Welfare

**Dr. Prasenjit Dey** Associate Dean, Faculty Welfare

Dr. Sreeraj E.S Associate Dean, Research & Consultancy

**Dr. Harikumar** Associate Dean, Planning & Development

Dr. Sunilkumar Associate Dean, Facility Management

**Dr. Ravi Prasad K.J.** Associate Dean, Institutional Relations & Alumni Affairs

#### **Heads of Departments**

**Dr. Veena T.** Computer Science and Engineering

**Dr. Suresh Mikkili** Electrical and Electronics Engineering

**Dr. Veerakumar T** Electronics and Communication Engineering

**Dr. L. Shangerganesh** Humanities & Social Sciences

**Dr. Prasenjit Dey** Mechanical Engineering

**Dr. Harikumar M.** Civil Engineering

of

## दीक्षान्तोपदेशः

संस्मरन्तु भवन्तः भवदीयमिदं ज्ञानविज्ञानं राष्ट्रस्य पवित्रतमो निधिः। तस्माद् अस्योपयोगः स्वदेशस्य स्वशिक्षणसंस्थानस्य च गौरवानुरूपं सम्यग् विद्यातण्यः। कस्यामपि दशायां भवद्धिः स्वकीया व्यावसायिकी मर्यादा, चारित्रिकी महत्ता च सयत्नं संरक्षणीये। मनसा, वाचा, कर्मणा च सर्वथा लोक कल्याणाय प्रयत्नीयम्। अनुशासनप्रियैः सदा भाव्यम्। स्मर्यताञ्च श्रुतेर्वचनम्

''यानि अनवद्यानि कर्माणि तानि सेवितव्यानि नो इतराणि।''

#### EXHORTATION

Remember that your knowledge and intellectual attainment is the most sacred wealth of the nation. You shall, therefore, use it in a manner befitting the honour and dignity of your country and of your alma mater. You shall make every effort, in all circumstances, to uphold the dignity of your profession and integrity of your character. You shall endeavour, in every way, through thought, word and action, to bring about the wellbeing of the people. You must live a well-disciplined life. Never forget the commandment of the sacred scriptures:

"Thou shalt perform deeds that are commendable and no others."

#### Address by the Chief Guest



#### Dr. Samir V. Kamat Secretary, Department of Defence R&D and Chairman, DRDO Government of India

Respected Director, and In-charge chairman, Board of Governors of NIT Goa, Prof. Omprakash Jaiswal, Guest of Honor Mr. Mansoor Rahimat Khan, Co-Founder & CEO and of Beatoven.AI, members of Board of Governors, Deans, faculty members, senate members, dignitaries on the Dais and Dignitaries in the audience, Graduating students, their parents and ladies and Gentlemen. A very Good afternoon to all of you!!! (mozo sangleak namaskar).

It's indeed an honor and privilege to address all of you on this momentous and joyous occasion 10th convocation of NIT Goa. I am very thankful to the Director for inviting me and giving this opportunity to address all of you.

Dear young graduates, at the outset, let me congratulate you on your graduation. You began your journey during the pandemic year of 2020, and at the tough start however full credit to all of you for adapting to this massive disruption and completing your degrees with flying colors. Today marks an important day in your lives, a significant milestone in your career journey. As you look back at your stay in the institute, you will remember the moments you rejoiced in the challenges you encountered and how each of these experiences have made you the person you are today. It is a moment of great pride for you as much it is for your teachers, parents those who played a part in shaping your lives. You have worked incredibly hard to get to this point and you richly deserve all the accolades. You are among the fortunate few who have the privilege of Graduating from one of the Institute of National importance in the country.

I am also happy to know that the Institute Curriculum is in compliance with the National Education Policy 2024, and it offers value added courses on Health and Happiness professional ethics human Values environmental studies and Physical education. The research achievements, collaboration which the institute has fostered is indeed creditable. Overall NIT Goa has carved a niche for itself in a short journey marked by a commitment to excellence innovation and societal engagement ensuring a transformative educational experience for its students. My whole hearted compliments to the Director, Board of Governors and Faculty members for these achievements.

Dear Students, the knowledge skills and values that you have acquired at NIT Goa will stand you in good state throughout your career. However, education does not conclude today. It merely enters a new phase. Learning is a lifelong process from my experience. I can share that if you want to succeed, you have to flexible and adaptive and collaborate and willing to take calculated risk and constantly learn and update your skills and last but not the least, you have to persevere and put in the hard work. These are some lessons which may help you as well of course there is no magic formula for success. There comes a point in time when each of you has to choose your own way. However, if you pursue something that you have a passion for and enjoy doing and it is highly likely that you will excel and Mr. Mansoor here is an example for all of you to follow.

I also want to use this opportunity to share a few words about DRDO. DRDO is a R&D wing of the Ministry of Defense, Government of India. DRDO was formed in 1958 and over the years, it has grown multifold in terms of variety of subject discipline, number of laboratories and achievements. DRDO vision is to empower India with cutting edge defense technologies and our mission is to achieve self-reliance of Atmanirbhar in critical defense technologies and system while equipping our arm forces with state of the art weapons systems and equipments. Our past success include indigenous development of strategies systems and platform such as the "AGNI" and "PRITHVI" series of missiles, the light compact aircraft "TEJAS" the main battle tank "ARJUN", the multi barrel rocket launcher "PINAKA", the air defense missiles system "AAKASH", the wide range of radars and electronic warfare systems under water sensors such as sonant's under water weapons such as torpedoes and mines to name a few. Our recent success is mission Shakti which was a demonstration of the anti-satellite capability as well as missions smart where we demonstrated the ability to deliver the torpedo using a supersonic missile for anti-submarine warfare. These have given significant jump to India military mike generating effective deterrence and providing crucial leverage. There are several new programs which are on the anvil such as the fifth Generation advanced medium combat aircraft hypersonic missiles, air independent propulsion for our P75 submarines, high endurance autonomous underwater vehicles. Over the horizon radars next generation main battle tank to name a few which should come to future in the coming years. Developing each of these complex systems and Technologies involves a multi-Year journey by teams of cross domain scientists working together across labs and organization and each is a story in itself. I would like to narrate a few stories to highlight this.

The first story, I would like to mention is the MMDP program or the integrated guided missile development program which was initiated in 1983 by our honorable ex-president Dr. A.P.J Abdul Kalam at that time you can imagine the country had extremely limited resources and technological capabilities. However, Dr. Kalam had the vision and the courage to take up such an ambitious program to make five missile systems. Simultaneously, although the program took a while to fructify today I can say with great pride that we are one of the leaders in missile technologies in the world and we can develop any type of missile which are required by our Armed forces today so the message from this story is be bold stay the course especially when you have opted for a challenging Goal.

A second story I want to mention is about the development of a Air Independent propulsion system for a submarine which enhances the ability of conventional diesel electric submarine to stay submerged under water from about 2 days or more than 10 Days. We have a small laboratory in DRDO Called Naval Materials Research Laboratory in Ambernath. It has about 70 Scientists and in the 2000s they took up a development of a phosphoric acid based fuel cell. They developed a 1 KW fuel cell and a Navy Admiral was visiting the laboratory he saw that and asked the laboratory this is a good product but can you develop a fuel cell which can power the

submarine and that would need a power more than 200KW they had demonstrated a 1 kilo Watt phosphoric acid fuel cell and just once challenge from a Naval Admiral made that laboratory take up a massive project and I can say with great pride today India is only one among three countries which has developed fuel based AIP for its submarines. So this again is the message I want to give you is you have to seize an opportunity and you have to take the calculated risk. The laboratory could have easily said that this task is beyond us but they took up this challenge and today as they were able to deliver on this challenge another interesting stories. I would like to tell you about rare Earth permanent magnets you would have heard about samarium Cobalt and Neodymium iron boron magnets. These magnets are critical for loss of application within our missiles, within our atomic energy and power systems, within for our space based program. The technology for making samarium Cobalt's was available in the country but these resources was coming from china and in 2009. China suddenly decided to cut exports of these rare earths. This resulted in massive crisis not only the price of these rare earths went up 10 times but their availability in itself became a challenge. This had an massive impact on all our strategic programs so task force was formed where three organizations DRDO, BARC and IREL which is a PSU. These formed a consortium to address the issue of extracting RADS from our beach sands from in Kerala and Tamil Nadu where these rare Earths are available and because of this collaborative effort not only could this rare earths be extracted from our beach sands but the entire technology from the extraction to purification to making the alloy to making the magnet was established and today a plant has been setup in Vishakha Patnam to produce these magnets for our strategic programs so the message I want to give you here is if you work in collaboration and there is a necessity anything can be achieved even if it's a challenging task, so at DRDO we believe in bala-Samonium the source of strength is science DRDO has the firm determination to make the nation strong and self - reliant in terms of science and technology especially in the technologies. Recently DRDO has started five new young scientist field of a defense laboratories where everyone including the Director of the laboratories below the age of 35. These laboratories have been tasked to address emerging Technologies such as cyber Physical system Quantum Technologies, smart materials asymmetric Technologies and artificial Intelligence. We want these laboratories to become the equivalence of startups within the Diardio ecosystem and we hope that these startups will result in far greater innovation in the entire DRDO setup. We have also opened 15 Diae that is DRDO industry Academy centers of excellence in 15 prominent academic institution. This again we would like these two centers of excellence to become as hubs for innovation and development of cutting edge technologies similar to what Stanford and MIT did in USA. So with our honorable prime minister's vision of Atmanirbhar Bharat and becoming a technology leader in the next 25 years or Amritkal, the future is bright in DRDO. I would like some of you to consider it in your options. We as a nation have made unmatched and enviable strides towards the future. One thing that has played a vital role in our dramatic and inspirational rise is science and technology. If a nation has to grow economically it has to have a strong foundation in science and technology. Our prime minister has even coined the phrase "Jai Jawan" "Jai Kissan" "Jai Vigyan" and "Jai Anusandhan". However, the rate of change of technology is accelerating dramatically in recent years. Several new disruptive technologies such AI/ML, Quantum, IoT, Advanced materials and cyber have emerged which are going to not only influence defense but most civilian domains. Climate change has also brought the need to

develop sustainable and ecofriendly technologies. Thus you're embarking on your professional journey in of the most exciting times. I am sure that each one of you has different dreams. Here I would like to quote four line from our Former Honorable president Dr. Kalam. And I quote "When You wish upon a star makes no difference who you are anything your heart desires will come to you and go."

If you are prepared to think big and act in time with conviction and take appropriate risk you will be rewarded. My dear young friends you are the future of this Nation and your generation will lead in transitioning INDIA from a Developing to a Developed nation. May God grant you wisdom, success and true sense of fulfillment of your cherish goals. Thank you and congratulations once again to all the graduates and Medal winner.

"JAI HIND"!!



#### Address by the Guest of Honour

Mr. Mansoor Rahimat Khan Co-founder & CEO, Beatoven.ai and Alumna- B.Tech Batch 2011-2015

Honourable Director of NIT Goa Prof. Omprakash Jaiswal, Chief Guest Dr. Samir V. Kamat, honorable faculty of NIT Goa and my dear students. It gives me immense pleasure to be back here on campus speaking with you all and finally stepping foot on the campus we all wished for during our days at NIT Goa. It feels like I'm graduating again today considering I'm part of the prestigious 10th convocation ceremony. You all are extremely fortunate to be able to study in this lovely campus and I honestly am jealous of you students. I was a part of the 2nd batch of NIT Goa from 2011 - 2015 and we were in a temporary campus in the city of Ponda in Goa. We were young, naive, clueless and also a little anxious about our futures. With no batch having graduated yet it was a time where everything had to be built from the ground up.

Our senior batch was someone we looked up to for inspiration and they were our guiding light during that time. We were envious of more established NITs and IITs which boasted of huge campuses and amazing events that would happen on their campus. We were envious of their facilities. But despite all of the limitations we faced during that time, there was content in the small campus that we had. We strived to do the best with the resources we had. Some of the faculties here might remember the hardships that we had to go through in order to conduct classes, organize events and raise funding for the various initiatives that we wanted to launch on campus. Over a period of time things got better, we started to see promise in a lot of initiatives that we had pioneered during our time.

I wanted to tell you all my story being one of the many students at NIT Goa during its inception years. Like everyone else during their first year of engineering, I was curious, anxious, frustrated, and had a lot of feelings that I couldn't recognise. I was not sure had I chosen the right stream, am I meant for this but a lot of those feelings started to go away over time as I began connecting with my classmates and my professors. I personally was always passionate to start something on the campus. I had a background in music as I came from a family of musicians and was trained at home so with the help of a few faculty members and students. I launched the music club on campus. I was definitely not the brightest in my field of engineering but I definitely had the strive to learn more. I still remember the days when we would be confused about what electives to choose, what would be more strategic from a future career standpoint or should we focus more on computer science due to its promising placement prospects.

A lot of the things while you're on campus seem to be competitive. You tend to compare yourself with the person sitting beside you. I want you all to know that none of this matters. You need to focus only and only on one aspect, your individuality. All of you are unique individuals

with unique backgrounds with insights like no other in your classroom. Each one of you is built differently to do amazing things in life. Your phase in college does not define your success potential, whatever the definition of success may be to you.

For the purpose of this event, I would like to share my journey from being at NIT Goa to the point of life where I am at today. I was part of the ECE department from 2011-2015. I was particularly interested in signal processing as a subject. I always had this tendency that I would want to combine my interest in music with that of math and signal processing seemed to be the closest to this aspect. In pursuit of this, I chose subjects in DSP and ADSP as my electives and went ahead to pursue my internship during my 3rd year at the Digital Audio Processing lab at IIT Bombay. That experience gave me a good initial insight into the space of music technology, which is a field that entails research on the scientific aspects of music. This is the kind of work done by companies like Spotify, Soundcloud, etc. I was pursuing analysis on the sound of sitar. While on campus at IIT Bombay I also got involved with a startup project called ACPAD. I learnt initial aspects of fundraising as I pitched this startup to a few investors at the IIT Bombay campus. This initial internship got me excited to come back to campus at NIT Goa and pursue my final year thesis on this subject. I sincerely worked for a year on my project thesis on doing analysis on the sound of the musical instrument that I play called the sitar. This marked the start of my journey towards this field. I was also a part of a startup that a couple of juniors on campus had initiated in the music events space which had close to 100,000 website hits at one point. I along with a few faculties also initiated the first on campus techno-cultural fest and we raised funding from various corporate organizations for the same. A lot of this personality shaping to building a venture took its roots while I was on campus.

After graduating from NIT Goa, as I set out into the corporate world seeking opportunities, I realized the options to do a job in the space of my interest were very limited. I had to compromise on a job in the derivatives trading industry which was probably my third interest after music and technology and it gave me insights into an entirely different world of finance altogether. However, my deep love for the field of music and technology drew me back into the space in 2017. I left my job by resigning and leaving overnight and freelanced as an artist for 1.5 years to understand the music industry and build my connections. During that year I gave close to a 100 performances worldwide and also released music on platforms like YouTube and Spotify and garnered millions of streams. However, it was purely music and not really technology. So I decided to apply for my master's in music technology at the prestigious Georgia Institute of Technology in Atlanta USA for their flagship program in music technology, an interdisciplinary course across college of computing, college of design, etc.

I took a hefty loan of 50 lakhs to mortgage my house and went for my master's as I wasn't able to secure a scholarship or grant for my masters. Very soon I began to realize that it was not the right decision for me since I started feeling that I was getting trapped into a system where I would need to pay off my loans over a couple of years and would lose my freedom to do what I want in the process. Meanwhile, the startup ecosystem in India had also begun to pick up with multiple ventures raising funding in 2018. With all of this information and observations I decided to drop out of my master's, come back to India and be a part of this ecosystem. The first

step for me was to understand how this world works before diving entirely into it. I was hired as a product manager and a researcher for several products in the field of audio signal processing and music technology at a startup that was funded by Amazon ventures. Within a short span of a year and parallelly learning through courses on self learning websites like Coursera, I was able to build a strong reputation in machine learning by filing 2 patents and also winning several competitions and publications. With this technical background I was hired by a fast growing education technology startup to teach and manage a product that would enable thousands of learners to learn in this format. I worked in that company and eventually that company was acquired for 600 million dollars.

Post that experience, I decided that now that I had seen what an early stage startup looks like and what a late stage startup feels like and with my experience in music, research, technology and finance, it was the best time to start my own venture.

In the beginning of 2021, I started my company with another co-founder Siddharth Bhardwaj who is a graduate of IIIT Allahabad and had similar experience from Europe in music technology called Beatoven.ai . We were one of the pioneers in the Generative AI and generative music space where we started building in this space out of India in early 2021 much before the trend came in. We had a lot of hardships starting this venture from the ground up. First of all this was a completely new space for investors to understand in India as there weren't any major success stories or ventures that had been built in this space before. So it took a lot of convincing for us to be able to get investors to back us. Initially we invested our own personal capital and started building this company, within a span of 6 months we were able to raise our first cheque of 55,000 dollars from one of the most reputed funds in the world called Entrepreneur First. Very quickly we executed on the idea and built a small team and the same investor gave us 500,000 dollars and along with them another reputed investors that has backed the likes of Zomato and Policy Bazaar and the parent company of Naukri, Shiksha, Jeevansaathi and 99 acres, Info Edge backed us with 500,000 dollars from the their deep tech fund called Capital 2B.

With 1 million dollars in our company bank account we were decently equipped to execute on our idea. We built an incredible team of folks spread across Europe, India and the US. We spent the whole of 2022 just focused on product building doing user research. By the end of 2022, we had 20,000 users from different parts of the world using our product. Come 2023, in the first month of January, we crossed 100,000 users. That was our first milestone in our product building journey. Post that our focus was now to build a really superior product since the market started getting heated up with competition. We started competing with multiple ventures building in this space from Japan, Europe, US and several other parts of the world. Our product was global from day 1 with 96% of our revenues and 70% of our free users coming from outside India and we were growing organically. By the end of 2023, we hit close to 750,000 users.

That was our next milestone and with that traction we raised another round of funding of 1.3 million dollars from the same investors and added some new reputed funds into our company in March 2024. Today we have more than 1.5 million users who have used our service from 150+ countries across the globe and we continue to scale our business and build new products both in

the consumer and b2b space. All of this is a humbling experience for me in life and I'm really grateful life has provided me with this platform and opportunities and I want you all to know that there's something exciting that is going to emerge for all of you in your lives as well. At this age, your top priority should be to optimize on learning and experimenting with new things. Hustle to achieve what you want to achieve or what you'd like to specialize in. On this note, I want to wish all of you students a bright future. This graduation ceremony is only the start of a lifelong journey that is about to come and I'm pretty sure a lot of good things are in the cards for all of you. I wish you all the best and you must take pride in graduating from one of the finest institutions in the country.

#### Thank you!



### Welcome Address & Report by the Director, NIT Goa

Prof. Omprakash Jaiswal Chairman (In-charge), Board of Governors & Director National Institute of Technology Goa

Distinguished Chief Guest for the 10<sup>th</sup> Convocation of NIT Goa, Dr. Samir V. Kamat, Secretary Department of Defence R&D and Chairman, DRDO Government of India, Mr. Mansoor Rahimat Khan, our beloved alumnus of 2015 batch and Co-founder & CEO of Beatoven.ai, Honorable members of Board of Governors and the Senate, esteemed members of the Faculty and Staff, Dear Graduands, their proud Parents, Distinguished Invitees, Student volunteers, Honorable members of the media, Ladies, and Gentlemen!

It is indeed a great privilege to extend a hearty welcome to all present here for this prestigious event. This is the first convocation, since NIT Goa shifted to this permanent campus in January this year. This is a memorable event of this campus and I am sure, in the years to come, NIT Goa will achieve many more academic laurels at this campus and this Chapora Seminar Hall will also witness many of those achievements.

We are honored and privileged to have Dr. Samir V. Kamat, as the Chief Guest for this Convocation and he will be blessing our young graduates. Dr. Kamat, your presence here today will certainly draw the attention of young graduates towards the defense sector, which offers technologically challenging opportunities. Further, the importance of Atmanirbharta lies in the Defense sector. In this amrit Kal, suitable planning, appropriate decisions are to be taken to ensure the vision of an Atmanirbhar Bharat, a Viksit Bharat by 2047.

I feel immensely proud to welcome our alumnus of 2015 batch, Mr. Mansoor Rahimat Khan, who is today's Guest of Honour. He is presently a Co-founder & CEO of Beatoven.ai. Dear Mansoor, since last year, we have started inviting one of our distinguished alumnus as the Guest of Honor for Convocation. We are deeply committed to involve our alumni in giving the best exposure to our students, and also the future planning, academic and infrastructural development of this permanent campus lie on the stakeholders.

Dear Friends, "VigyanBharat" involves moulding the minds of future generations, which in turn build a robust nation. Establishing an educational institute with a state-of-the-art facility plays a key role in developing the intellectual property of the country. It is a matter of great pride for us that this permanent campus of National Institute of Technology Goa at Cuncolim, was *inaugurated by the Hon'ble Prime Minister, Shri. Narendra Modi ji on 6<sup>th</sup> February 2024.* The campus has been constructed to accommodate 1260 students with a total built-up area of 70750 sqm. The campus houses various facilities such as Tutorial complex, Departmental complex, Seminar complex, Administrative complex, Hostels, health center, staff quarters, amenity center, sports ground, bank and other utilities.

#### ACADEMIC PROGRAMME

NIT Goa, established in 2010, offers B.Tech programmes in five Engineering streams namely: Civil (CVE), Mechanical (MCE), Computer Science (CSE), Electrical and Electronics (EEE) and Electronic Communication (ECE). It offers M.Tech in three specializations namely, CSE, VLSI and PEPS. Apart from these, the Applied Sciences (APS) and Humanities and Social Sciences (HSS) departments offer the foundation courses. Further, Ph.D. programmes are offered in all the disciplines. The fundamental focus of our curriculum is the holistic development of the students and giving outcome-based Education.

On this joyous occasion, we celebrate the academic achievements of our students. A total of 207 degrees are to be awarded which include 13 PhD, 28 M.Tech, 166 B.Tech.degrees. Additionally, we take great pride in awarding 10 medals in recognition of exceptional academic performances. Congratulations to all the degree recipients and medal winners for your outstanding accomplishments.

**Implementation of NEP 2020 at NIT Goa:** Friends, NIT Goa is sincerely committed to the implementation of NEP 2020. National Education Policy 2020 aims to emphasize creativity, and individual potential and to revive the glory of ancient Indian Knowledge and Gurukul System.

NIT Goa has, under NEP 2020, brought in many initiatives. Like Minor programs, to give students exposure in more demanding fields. Our new curriculum includes courses related to Indian Knowledge System and industry oriented learning. It also encourages early completion of B.Tech so that students can join industry in 8<sup>th</sup> Semester etc. In addition, B.Tech students can pursue their 4<sup>th</sup> year in IITs: namely in IIT Hyderabad and IIT Madras. This year, 5 students have been selected in IIT Hyderabad, and 4 students have been selected in IIT Madras to study their final year. All the students of NIT Goa are also registered in Academic Bank of Credits.

In order to encourage experimental and development work, NIT Goa has started a funding support upto Rs. 1,50,000/- per Department exclusively to support experimental work under UG and PG Projects. Ph.D. students are supported with a fellowship of Rs. 50,000 to attend an International conference. NIT Goa welcomes Ph.D. Co-Supervisors from External Organization to enhance joint research collaboration. This year, NIT Goa has obtained 5 full-time Ph.D. seats and 2 part time Ph.D. seats under Visvesvarya Ph.D. scheme for Electronics and IT: Phase II. Further,NIT Goa offers Post-Doctoral fellowships to enhance research activities. NIT Goa has been awarded with 5G Usecase Lab from the Department of Telecommunication to carry out research activities and skill development.

To strengthen the ties with Industries and International and National Universities, last year NIT Goa has signed a total of thirteen (13) Memoranda of Understanding (MoUs). NIT Goa has signed MOUs with the IIT Madras, IIT Hyderabad, University of Paris, Telecommunications Consultants India Limited, Siemens Limited Goa, National Forensic Sciences University (NFSU), Goa, University of Agder, Campus Grimstad, Norway, and many more. These MoUs are meant to foster faculty and student exchange programs, upskilling of trainees, knowledge sharing, carrying out interdisciplinary research works among the institutes, joint research guidance, curriculum and course developments, joint workshops, conferences, seminars, and many such programs.

**Placement:** I am very happy to say that more than 120 companies visited NIT Goa for campus placements for both the B. Tech and M. Tech students in the year 2023-24. More than 40 companies extended offers to NIT Goa students. In spite of the global slowdown and recession in the job market across the world, our students have performed well. A significant highlight of this placement season is the selection of few students in Public Sector Undertakings (PSUs), like MECON, BSES. Some of our students are also working in prominent PSU like BEL and BPCL etc. to name a few. NIT Goa achieved 83% overall placement with average offer to B.Tech 8 LPA and highest salary of 20 LPA. Nearly 100% M.Tech students got an internship position in leading multinational corporations such as AMD, Global Foundries, Intel, Qualcomm, Smart SOC, DELL, BOSCH, etc. 12 out of 17 M.Tech. VLSI students got placement offers from companies like Intel, Marvell, Synopsys, Cadence etc., with a maximum package of 35 LPA from Marvell Technology and average package is 20 LPA. In Computer Science and Engineering, 3 out of 7 M.Tech have secured employment during internship with esteemed companies such as Dell, Infineon, and Thinkseed Systems, with the highest package of 19 LPA and average package of 14 LPA.

Research and Consultancy: Friends, beyond teaching and learning, NIT Goa has also evolved as an Institute of progressive research and technology. NIT Goa is actively engaged in research activities in various promising research domains such as AI/ML, Blockchain, Cyber Security, Smart Grid, Power Electronics, System on Chip, Clean energy sources and systems, VLSI, Photonics, Fluid mechanics, Soil mechanics etc for the future and sustainable developments. The faculty of NIT Goa is actively engaged in translating novel ideas into a product/process and has published and granted patents to its credit. NIT Goa has received a total of 54 research and consultancy projects worth Rs. 35.57 crores approx from various research funding bodies such as the Department of Science & Technology, Ministry of Science & Technology, India, Science & Engineering Research Board, India, Ministry of New & Renewable Energy, CEERI, Pilani, Indian Council of Social Science Research, Siemens Ltd. Goa, MEITY, IISc Bangalore, Media Lab Asia etc. In addition, the Faculty members of NIT Goa published more than 700 Journal articles in reputed Journal publishers such as IEEE, ACM, IET, Elsevier, Wiley, Springer etc., and more than 650 conference proceedings are published in top-tier conferences. NIT Goa has a total of 20 patents granted, and 18 patents are under consideration. In the last academic year, 8 patents have been granted.

Achievements by Students: I am very proud and happy to share that our students have excelled in areas of academics, competitive exams, national level contests, innovation, research and sports activities. Few of the notable achievements are as:

Konjeti Manju Sree, Final Year M.Tech (CSE) student, has obtained the "PG Top-Up Fellowship Grant" from IISc Bangalore's Skilling Program 2023@ARTPARK for her innovative project on "Early Detection of Parkinson's Disease using Deep Convolutional Neural Network Models and Bio-Inspired Optimization".

Final Year B.Tech (CSE) students, Pritika Barshilia & Suyash Mirchandani, bagged the "Goa State Innovation Council Grant of Rs. 50K" for their innovative project on "Modelling and Simulation of Brain-Computer Interface for Lie Detection using Deep Learning Paradigms and Fuzzy Logic".

State Level Elocution Competition organised by Goa Shipyard, wherein Ms. Mehek Bhandari of Electrical Department has won 3rd Prize in Hindi category.

Nivedita Kasyap, Jayendra Pal, and Roshan Kumar Singh, won the second position in the intercollegiate competition "MAECOFIN" held in BITS Pilani Goa Campus.

Two teams of NIT Goa students have won the first position in Smart India Hackathon 2023 in the selected topics: Team (a): Team Alchemist- Deepak S, Manobhav Sachan, Ambesh Gaunker, Aman Kushwaha, Ann Mariya Roy and Darshan Bilana Team (b): Abhiraaj Verma, Aman Tiwari, Piyush Singh, Vijay Gautam and Karan Barai.

Manobhav Sachan, Prathipati Teja Siva Narayana, Deepak S. won the Goa State Innovation Council grant of Rs. 50K on their project "Student Attendance System".

Saksham Jain was a member of the team that placed first in the 36-hour hackathon "Hack The Future," which was hosted by IIEC, IIT Gandhinagar, and awarded a cash prize of Rs. 3,00,000/.

At Spectrum 2024, held at Goa Engineering College our students have won:

- 1. Sagar Shirgaonkar, Ved Shetye, Archit Bhargava, Saksham Thakur won the first position in Spectrathon
- 2. U. V. Rohith and Yogeeshwar Sai Boddu, won 1st place in Astro Design
- 3. Devansh Garg, Zubin Shah, and Aryan Shrivastav won the first position in Capture the Flag
- 4. Zubin Shah and Aryan Shrivastav clinched the top spots at Code Cosmos
- 5. Zubin Shah won the first position Ketan Kunkalikar & Abhishek Choukuse won second position in Binary Nebula
- 6. Aadarsh Patil clinched the second position in 3-D CAD Modelling
- 7. Sahana and Kanak Gohil clinched the top spot in Star Structure
- 8. Yash Kamat, Saareesh Naik, and Yash Patil clinched the top spot in the Treasure Hunt

Kaushik Sujay P, Eshani Dilip Naik, Sanad Pandharinath Talaulikar, Aryan Chari, & Mohd Firdos clinched 2<sup>nd</sup> prize in All India "Electric Vehicle Charger Designing" competition held by IIT Kharagpur.

Ms. Ruchika Tayil, Ph.D. Scholar has been awarded UMANG Scholarship Rs. 50K. UMANG Scholarship program is a Crompton CSR endeavour dedicated to nurturing the educational dreams of deserving and meritorious young girls.

Hariharn S: a Ph.D. Scholar has received a SERB travel grant and institute support to attend the "International Conference on Scientific Computation and Differential Equations (SciCADE 2024)" held at National University Singapore.

Ayushi Kandpal, Ms. Rakshitha K and Mr. Gabriel Allwyn D'souza have been shortlisted for the finals of Bharatiya Antariksh Hackathon 2024, organized by ISRO & Hack2skill, at Hyderabad.

Total 39 students have qualified for the GATE-2024 exam. 09 students from CSE, 08 students from ECE, 04 students from EEE, 09 students from Civil Engineering and 09 students from Mechanical Engineering.

U.V Rohith, Fardeen Hasan, Shaivi Chanekar, and Kaushik Bhat, final year students of Civil Engineering Department have secured admission to Early Ph.D. and M.Tech programs at IIT Gandhinagar.

U.V. Rohith is also selected for Ph.D program at IIT Hyderabad. Pritika Barshilia obtained admission for the MS at University of California, San Diego. Souradeep Pradeep Banerjee has secured admission in MBA at IIM Calcutta.

Under the DST/INSPIRE fellowship, Mr. Sahil Sharma, a PhD scholar has done excellent work and has been promoted from JRF to SRF within one year.

Achievements by Faculty Members: Faculty members are always an asset to our institute. I am proud to say that I lead a team of young and very dedicated faculty members who work tirelessly and are able to transform aspiration into reality. Faculty members of NIT Goa have brought laurels to the institute with their valuable inputs, academic innovations and industrial research. I would like to take this opportunity to speak about certain major achievements of our faculty, made in the year 2023-24:

Dr. P. S. Reddy has received a Core Research Grant from SERB worth Rs 35.00 Lakhs for a project titled "Development of Nature and Bio-inspired Metamaterials for Stealth Technology Applications" In addition, he has been nominated as one of the Editors of Frontiers in Sensors Journal.

Dr. Ravi Ragoju has received Core Research Grant from SERB project worth of Rs 20.49 Lakhs for a project titled "Themoconvective instabilities in a bidispersive porous layer: Linear and Non-linear stability analyses"

Dr. Sreeraj has received a project titled "Installation of Grid-Connected Single Phase PV rooftop System with a capacity of under 1 KW at Goa Energy Department Agency" of Rs. 5.67 Lakhs from GEDA.

I am happy to share that ten new Indian patents have been secured by our faculty members

- 1. Dr. P S Reddy, Dr. G R C Reddy, Dr. Nithin Kumar, Dr. R Singh
- 2. Dr. Nithin Kumar Y. B., Dr. Vasantha M.H., Mr. Nimmagadda Sampath Chowdary, Dr. Siddharth R. K.
- 3. Dr. Vyjayanthi, Dr. Chirag Modi, Dr. Madhu G M

- 4. Dr. Shivnarayan Patidar, Dr. Ashish Sharma
- 5. Dr. Vyjayanthi, Dr. Chirag Modi, Ms. Nivedita Naik, Dr. Madhu G Mand Ms. Anju Mathew
- 6. Dr. Anirban Chatterjee, Dr. Vasantha, Dr. Deven Patanvariya, Dr. Kalyan Sundar
- 7. Dr. Damodar Reddy Edla, Mr. Deepak DM
- 8. Dr. Damodar Reddy Edla, Mr. Akhilesh Kumar Singh
- 9. Dr. Suresh Mikkili, Mr. Pritesh Anil
- 10. Dr. Suresh Mikkili, Mr. Abhinav Bhattacharjee

Dr. Chirag Modi and Dr. Vyjayanthi have been sanctioned Rs. 9.96 Lakhs for conducting a GIAN course on "Blockchain Evolution and its Applications".

Dr. Damodar Reddy Edla has received the Outstanding Associate Editor-2023 Award from IEEE Transactions on Instrumentation and Measurement. In addition, he has been elected as the 'ACM India Eminent Speaker' by the ESP Selection Committee of ACM India.

Dr. Sarani Ghosal Mondal has been awarded with the prestigious Nolini Kanta Gupta Memorial Award for her contribution to Sri Aurobindo Studies as a Critic of Sri Aurobindo's Literature by Srinvantu Spiritual Trust, Kolkata & Sri Aurobindo Ashram, Pondicherry. In addition, she has received Financial Assistance from TIIKM, Colombo to present her research on Gender Studies. She is appointed as Second Editor of JIWS (Journal of International Women's Studies, by Bridgewater University, Massachusetts).

Dr. Amol D Rahulkar with his Ph.D. scholar published a book in Springer Nature.

**Students Activities:** NIT Goa has formed various clubs and chapters such as Coding Club, Dance Club, Music Club, Drama Club, Social Media Club, Fit India Club EBSB Club, SPIE, IEEE, SPECTRA and so on to encourage the students towards co-curricular and extra-curricular activities. Apart from attending the classes, the students are engaged in various sports activities and participate in Inter-NIT Sports events. NIT Goa organizes a Techno-Cultural Event named (SAAVYAS), which includes both cultural and technical events. Thousands of students from other Institutes actively participate in the event. EBSB (Ek Bharat Shreshtha Bharat) club of NIT Goa has conducted many cultural events to experience the diverse Indian culture and traditions.

**Outreach and Extension Activities:** NIT Goa is actively engaged in various outreach activities such as Rashtriya Avishkar Abhiyan, Swach Bharat Abhiyan (SBA), Voter Awareness Campaign: "Mera Pehla Vote Desh Ke Liya", for spreading the knowledge among students and faculty of other Institutes. The Institute has organized cleanliness drives and awareness programs during this academic year in the surroundings of NIT Goa including the premises of the hostels and our Permanent Campus. Under SBA, NIT Goa has implemented a clean, green, and plastic-free campus.

NIT Goa has conducted a few Exposure-Programmes for the high school students: the students of Perpetual Succour Convent High School Navelim, Goa, the students of PM SHRI Govt. School, Gaval Khol, Canacona, Goa, 10<sup>th</sup> Class students and faculty of Maria Bambina Convent High School, students and faculty of PM SHRI Govt. School, Morpirla, Goa visited the Laboratories and interacted with the faculty members.

Throughout the year, the institute remains busy in organizing various programs such as #SnakeAlert: Vigilance, Safety, and Bite Prevention, Innovation, Design and Entrepreneurship (IDE) Bootcamp with 120 participants, Blood Donation Camp in collaboration with Goa Medical College, awareness session on new criminal laws, by Ms. Cyndiana Silva. In addition, NIT Goa has conducted Empowering Women: Self-defense program on International Women's Day, Cricket Tournament: Intra-Departmental tournament to foster team spirit and sportsmanship, Yoga for Well-being: on International Day of Yoga, celebrated with the theme "Yoga for Self and Society" and Say No to Drugs: International Day against Drug Abuse to promote a healthy lifestyle. Awareness program on new criminal Laws - the "Bharatiya Nyaya Sanhita," the "Bharatiya Nagarik Suraksha Sanhita," and the "Bharatiya Sakshya Adhiniyam" has been conducted.

NIT Goa became a part of Yuva Sangam programme in December 2023, which is an initiative by the Government of India to foster people-to-people connect between youth belonging to different States/UTs of India. The institute was paired with IIT Bhilai. The objective was to foster a bridge between Chhattisgarh and Goa.

**Dear Graduating Students:** With this comprehensive report of the Institute, I extend my heartiest congratulations to all the proud parents. Your wards have successfully navigated a crucial phase of their academic journey. At NIT Goa, we have exposed them to the best academic environment, and facilities for co-curricular developments. They are now better equipped to handle ups and downs of life. My best wishes to all the graduating students and special appreciation for those who will be awarded with medals. Some of you would opt for jobs, some will go for higher education, others will be looking for PSC opportunities, and some will look for entrepreneurship. Today's professional landscape offers a wide variety of opportunities. You have to introspect your natural liking and accordingly choose your path.

Friends, for our country this is a very exciting period, full of opportunities, and we have set an ambitious target that India will be a self-reliant, developed country by 2047, i.e., our Centenary year of Independence. There is optimism all over the globe towards Bharat, towards its economy, towards its education system and all the more towards its youngsters. Atmarnirbhar Bharat, particularly in the important sectors like Defense, Semiconductors, energy is very crucial. You have huge opportunities in our motherland. With a lot of pride, and the feeling of Bhartiyata, you need to embark on this challenging journey in a joyful manner. We also need to have technological solutions to minimize the destructive effects of the natural calamities like landslides, heavy rainfall for small duration etc. Set your goal high, remain enthusiastic, prioritize your health, be sincere to your organisation, and finally be responsible to your family and the society at large. The experiences of your stay at NIT Goa, will be immensely helpful to you in your future endeavours.

I hope you will be in touch with the Institute as you move on to newer opportunities and achievements. Mr. Mansoor Rahimat Khan's presence here is a testimony to the fact that NIT Goa believes in a symbiotic relationship with all its alumni and seeks their contributions to achieve greater academic heights. I look forward to receiving your news from time to time and NIT Goa will keenly watch your achievements. The list of institute achievements that I counted is long and I am sure that will make you proud of your alma mater. Your friends, relatives, parents and you shall be very satisfied and proud of your engagement with the institute as a student and subsequently as alumni in the future. I wish you the courage and the wisdom to handle life as it unfolds. There will always be ups and downs in our journey. But we need to show a great character when the chips are down. This is the time when you should recognise and recollect your strengths, and keep your mind open. Remember, life battles are won by those who have the patience to think and the zeal to win.

While concluding this report, I once again Congratulate you all and wish you a very successful, joyous, and fulfilling Amrit Kal journey.

I would like to place on record my sincere appreciation and gratitude to the Government of India, MoE and Board of Governors, for the support they have extended to this Institute. I am extremely thankful to faculty, staff and students who invested their time, thoughts and energies to make this day a success, this is a fulfilling moment in every sense of the word.

Thank you all.

**JAI HIND!** 

#### **Institute Report**

#### **ABOUT NIT GOA CAMPUS**

Building the nation to attain "VigyanBharat" involves moulding the minds of future generations. Establishing an educational institute with a state-of-the-art facility plays a key role in developing the intellectual property



of the country. The National Institute of Technology Goa (NIT Goa) was established in 2010 by an act of parliament and has been declared as an "Institute of National Importance". NIT Goa started functioning at the premises of Goa Engineering College, Farmagudi, Ponda, Goa from June 2010 onwards. The Govt. of Goa transferred land measuring 456767 Sqm in the village of



Cuncolim in July 2017 to NIT Goa. The foundation stone for the campus was laid by Hon'ble Chief Minister of Goa, Dr Manohar Parrikar Ji in the presence of Shri Prakash Javadekar Ji, Hon'ble Minister of Human Resource Development, GoI in

December 2018. In May 2019, the planning for the construction of the NIT Goa campus was started on 46 acres. The campus has been constructed to accommodate 1260 students with a

total build-up area of 70750 sqm. The campus houses various facilities such as a Tutorial complex, Departmental complex, Seminar complex, Administrative complex, Hostels, health center, staff quarters, amenity center, sports ground and other utilities.

NIT Goa started functioning on its campus at Cuncolim from January 2024 onwards. The permanent campus was inaugurated and dedicated to the nation by the *Hon'ble Prime Minister, Shri. Narendra Modi ji* of India on 06/02/2024.





#### ACADEMIC PROGRAMME

NIT Goa is one of the ten NITs established under the aegis of MHRD in 2010. There are five engineering disciplines, namely, Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Civil Engineering (CVE) and Mechanical Engineering (MCE). The Institute also has two multidisciplinary Departments called Department of Applied Sciences (APS) and Humanities and Social Sciences (HSS), comprising Physics, Chemistry, Mathematics, Economics, and English. These two departmts are headed by the common HoD. NIT Goa offers B.Tech. degree in CSE, CVE, ECE, EEE, and MCE. The M.Tech. degree offered by the Institute includes M.Tech. in CSE, M.Tech in VLSI, and M.Tech. in Power Electronics and Power Systems (PEPS). In addition to these, the Institute also offers Ph.D. degree in the departments of CSE, ECE, EEE, APS and HSS. The fundamental focus of the curriculum is the holistic development of the students and giving outcome-based Education. The Institute continuously strives to make the students ready either for the industry or for innovative research. In this direction, the Institute believes in providing practical exposure to different emerging technologies in all the engineering disciplines. In addition to inculcating academic growth in students, the Institute is responsible for shaping every student as a responsible citizen. In connection to this, Value Education, Environmental Studies, and Physical Education have been incorporated into the curriculum. A total of 184 students were enrolled for 2020-2024 batch of B.Tech. The number of students enrolled in M.Tech. programme for 2022-2024 was 28. There are 41 full-time, 94 part-time, 06 Sponsored and 03 Self-financed Ph.D students currently doing research in the Institute.

This year our Institute is going to award B. Tech., M.Tech., and Ph.D. degrees to a total number of 207 students.

B.Tech. Degree will be awarded to a total number of 166 students. Branch wise results are as follows:

•	<b>Computer Science and Engineering</b>	:	37 students
•	Electrical and Electronics Engineering	:	35 students
•	<b>Electronics and Communication Engineering</b>	g :	41 students
•	Civil Engineering	:	28 students
•	Mechanical Engineering	:	25 students

M.Tech. Degree will be awarded to a total number of 28 students. Branch wise results are as follows:

•	<b>Computer Science and Engineering</b>	:	07 students
•	<b>Power Electronics and Power Systems</b>	:	04 students
•	VLSI	:	17 students

Ph.D. Degree will be awarded to a total number of 13 students.

NIT Goa has implemented NEP 2020 from academic year 2023-24. Under this, the new curriculum will be covering the following aspects of NEP 2020. Minor programs are introduced in various specializations such as CSE, ECE, EEE, Mathematics etc. to assist students in getting across other branches of engineering/multi-disciplinary, as per their interest and widen their knowledge domain. Indian Knowledge System courses such as Health and Happiness, Yoga, Vedic Mathematics, Professional Ethics and Human Values, Indigenous Games etc are offered in the new curriculum. Multiple Exit options are provided to the students to take temporary Exit, do job in concerned industry and then return back to complete degree within a prescribed time limit (about 2 years). This way a blend of theoretical and practical knowledge will be possible. Students can also take permanent exit and receive certification program. NIT Goa is offering a course on "Environmental Studies" for UG students of all branches to encourage environmental awareness and sensitivity towards its conservation and sustainable development. As suggested in NEP, NIT Goas has also made a provision for Direct admission to Ph. D Programme based on UG programmes with competitive CGPA. In addition, early completion of BTech so that students can join industry in 8th Semester etc. In addition, B.Tech students can pursue their last year in in IITs such as IIT Hydrabad, IIT Madras etc. This year total 5 students are selected in IIT Hydrabad, and 4 students are selected in IIT Madras for their final year study. All the students of NIT Goa are registered in Academic Bank of Credits. Few notable academinc initiatives are as follows:

- NIT Goa has started a funding support upto Rs. 1,50,000/- (One Lakh fifty thousand) per Department per year to carry out UG and PG Projects.
- Student mentorship program (SMP) is facilitated for new joiners, by handholding them with motivated 3<sup>rd</sup> year students. This helps the new joiners to learn the nuances of engineering education and overcome initial hurdles seamlessly
- M.Tech without GATE in self-financed and sponsored categories is facilitated
- M.Tech students are allowed to carry out half-semester/one year internship as M.Tech Project at Industries/Research organisations.
- > Ph.D. without GATE in part-time, self-Sponsored and sponsored categories is facilitated
- Ph.D. students who can publish/get acceptance of two key publications within the first three years, will be given a fellowship of Rs. 50,000 or more towards registration fee and/or partial travel, accommodation to attend an international conference.
- ➢ Guest faculty and Adjunct faculty are invited to teach specialised areas/courses.
- > Implementing Post-Doctoral Fellowships from Institute grant.

- > Industry-oriented and Skill-based learning for the students is highly encouraged.
- MOUs with few of the academic institution are IIT Madras, IIT Hyderabad, National Forensic Science University (NFSU), BITS BioCyTiH Foundation and many more.
- > In NIT Goa, students earn Credits after successfully completing a course.

In addition, academinc talks are organized by the Institute. Prof. Sadanand S Gokhale, Retired Professor gave a talk on "Academic reforms and Industry 4.0" on 18th December 2023. Mrs.

Beena Gokhale, Retired Professor gave a talk on "Pedagogy and Effective Communication for Researchers" on 18th December 2023. Prof. Bidyadhar Subudhi, Professor in Electrical Engineering, IIT Goa (Presently on lien as Director, NIT Warangal) had delivered a talk on 03 Feb 2024 in the topic: "R&D- a key Enabling Factor for Accomplished Career and Institute Growth".



#### **HUMAN RESOURCES**

The Institute has shifted to its permanent campus at cuncolim in January 2024. There are thirty five regular faculty members and twenty eight members on contract. Apart from them, there are thirty six Non-Teaching staff members, whereas one Medical officer, one Internal Auditor, Assistant Librarian and sports officer are On Contract. The Institute has outsourced employees to cater to the growing needs of the Institute. There are ninety six Security Guards including Lady SG, One security officer and three Supervisors. In addition, Institute has 30 Skilled, 09 Semi skilled and 02 Unskilled Office Staffs. 01 Skilled, 01 semi skilled and 36 unskilled (Housekeeping Staff) employees in NIT Goa..

# DEAPRTMENT OF APPLIED SCIENCES & HUMANITIES AND SOCIAL SCIENCES (APS & HSS)

The Departments of Applied Sciences (APS) and Humanities & Social Sciences (HSS) are multidisciplinary, offering indepth expertise in foundational courses such as Physics, Chemistry, Mathematics, Economics, English, Environmental Science, Health & Happiness, Liberal Arts, Physical Education, and Value Education. Departments are fully equipped with state-of-the-art laboratory facilities, featuring advanced research instruments including an Atomic Force Microscope, Optical Interrogator with C-band source, Ball Mill, and OTDR. The departments comprise 15 staff



members, including 12 teaching and 3 non-teaching personnel. Additionally, the departments support 37 Ph.D research scholars, one Postdoctoral scholar encompassing full-time, part-time, UGC-JRF, and ICCR scholars. To date, 13 research scholars have successfully obtained their Ph.D. degree.

The department has achieved numerous milestones through the efforts of our students and staff. While it would be impossible to list them all, some of the key accomplishments include: The department collectively produced over 200 research publications in top indexed journals during the last ten years. Dr. Saidi Reddy Parne has been granted an Indian Patent (Utility) on November 10, 2023, for his innovative work titled "Superconducting Permanent Magnetic Motor," under the patent grant number 468162. In addition, he has been sanctioned a SERB-CRG funded project on January 30, 2024, for his research on the "Development of Nature and Bio-inspired Metamaterials for Stealth Technology," with a total grant amount of 35.5 lakhs. He along with Dr. Velavan Kathirvelu organized the International Conference on "Emerging Multifunctional Materials and Devices for Sustainable Technologies (IEMDST-2024)" from July 5-6, 2024, in collaboration with the Department of Physics, NIT Warangal. Moreover, he has been actively involved in promoting scientific education focused on the physics, chemistry, mathematics and communicative english for high school students by organizing eight workshops with support of all the department faculties. Dr. Ravi Ragoju has been awarded a SERB-CRG funded project for his research on "Thermoconvective Instabilities in a Bidispersive Layer: Linear and Non- Linear Stability Analyses," with a total grant amount of ₹20.49 lakhs for the period of three years.

Dr. Sarani Ghosal has been honoured with the Nolini Kanto Gupto Memorial Award 2024 for her outstanding contributions to Sri Aurobindo Studies. Additionally, she presented a paper on Gender Justice at the 10th World Conference on Women Studies in Colombowhere she received partial funding from the host organization, TIIKM-Colombo, Sri Lanka. Dr. Sunil Kumar successfully completed an ICSSR-funded project titled "Analyzing the Impact of the Start-up India Policy: An Empirical Study on Major Start-up Hubs in India," with a grant of ₹16, 00,000 in the year 2024.



Students' Achievements: Ms. Ruchika Tayil, a Ph.D. scholar under the supervision of Dr. Saidi Reddy Parne, was awarded the UMANG Scholarship in January 2024. The UMANG Scholarship Program, a CSR initiative by Crompton, is dedicated to supporting the educational aspirations of deserving and meritorious young girls. This program, in collaboration with the Centre for Youth

(C4Y) as the national partner, aims to bridge the gap in girls' education through transformative scholarships. Mr. Sahil Sharma, also a Ph.D. scholar under Dr. Parne's guidance, has made significant academic achievements. He published a research article in the high-impact journal "Advances in Colloid and Interface Science", published by Elsevier, which boasts a high Cite Score of 23.7 and an Impact Factor of 15.6. Additionally, Mr. Sharma, an INSPIRE Ph.D. student in the Department of Applied Sciences (Physics), was exceptionally promoted from Junior Research Fellow (JRF) to Senior Research Fellow (SRF) within just one year, effective February 18, 2024. This promotion is notable, as Ph.D. scholars are typically promoted from JRF to SRF after completing two years, but Mr. Sharma's valuable contributions earned him this advancement in a significantly shorter timeframe.

Meanwhile, Mr. Hariharn S, a Ph.D. scholar working under the guidance of Dr. L. Shangerganesh, has been awarded a SERB travel grant and additional institute support to attend the "International Conference on Scientific Computation and Differential Equations (SciCADE 2024)" was held on July 15-19, 2024 at NUS, Singapore. Furthermoe, Ms. Maria John Paul has presented a paper on Ecological Imbalance at an International Conference on Navigating Sustainable Futures: Literary Reflections on Precarious Livesheld between 24th and 25th February 2024 at IIT Patna. Ms. Antara Chandra's book chapter entitled "Identity Questions Among Bangladeshi Immigrants in Britain: Monica Ali's Brick Lane" has been published in an Anthology on Reframing Identity: Responses from History, Culture and Literature, eds by Raj Raj Mukhopadhyay and Samrat Bisai, Atlantic Publishers, 2024.



#### **DEAPRTMENT OF CIVIL ENGINEERING (CVE)**

The Department of Civil Engineering is one of the youngest Departments at NIT Goa, established in 2018. The Department offers B.Tech programme since its inception and has started Ph.D. programme from this academic year. The Department has eight faculty members and two supporting staff. The faculty have their expertise in all the major areas of Civil

Engineering such as: Structural Analysis, Experimental Soil Mechanics, Hybrid Geosynthetics, Sustainability in Geotechnical Engineering, Model Foundation studies, Unconventional Earth Reinforcement Techniques, Expert Systems in Geotechnical Engineering, Artificial Neural Networks, Advances in soil nailing design and construction, Measurement and estimation of saturated hydraulic conductivity of soil, Hydrology, Water Resources Management, Irrigation & Hydraulic structures, Runoff Modeling, Remote Sensing & GIS, Climate Change Studies, Structural Dynamics, Underground Blasting, Earthquake Engineering. The Department houses state of the art labortatories consisting of Material Testing, Geotechnical, Transportation, Environmental, Surveying, Non Destructive, Fluid Mechanics and Building Design and Structural Design laboratory equipped with the state of the art industry oriented software like AutoCAD and MIDAS Structural and Geotechnical package.

The Department of Civil Engineering organized a Short term training program on Sustainable Future on Water Resources and Climate Challenges, sponsored by the Department of Science and Technology & Waste Management, Govt. of Goa, during 12th –16th March 2024. The program was attended by about 50 participants from faculty and students from GEC, Don Bosco Engineering College and working professionals from Goa PWD and WRD.

The faculty members continue to publish their research work in reputed international/national journals and conferences. They are also actively involved in consultancy works in the form of structural auditing, quality control and planning and estimation which generated revenue for the department and the institute. The faculty have attended several International and national STTPs organized by premier institutes, to hone their teaching-learning and research skills such as the International Virtual Short-term course on Application of Unsaturated Soil Mechanics on the Analysis of Slopes, IIT Mandi, Durham University and Universiti Kebangsaan Malaysia, International workshop on Landslide Hazard: Forecasting, Monitoring, and Early Warning, IIT Indore, University of Florence, Italy, International conference on Climate resilient construction and building materials at NITK, Surathkal, Field training cum implementation workshop on coastal erosion control by bioengineering measures organized by National institute of Disaster management and Goa college of Engineering and so on.



The faculty members also serve as reviewers for international journals of repute such as Geotextiles and Geomembranes, Journal of Soil Mechanics and Foundation Engineering, Journal of Geotechnical and Geological Engineering etc. Dr. Harikumar M attended the BIS meeting for CED57 - Cyclone Resistant Structures Sectional Committee, for discussion on formulation of the necessary Indian standard codes related to Cyclone-related structures and CED 39- Earthquake Engineering Sectional Committee.

The Civil Engineering Students Council (CESCO), formed in 2019, organizes activities like educational field trips, lectures by professionals and distinguished engineers in the field of Civil engineering. Through CESCO, the Department builds a bridge for lively interaction between

students and the industry. In order to provide an exposure to students about practical working environment and a good opportunity to gain full awareness about industrial practices, the faculty of the department along with CESCO, organized many industrial and academic visits, including OPA Water works, Salaulim Dam, Zuari bridge, ACC RMC Plant etc. The Department faculty is actively involved in consultancy projects dealing with concrete quality testing, structural design and retrofitting. Recently, the department executed and completed a consultancy project for concrete quality checking in the Permanent campus of NIT Goa in which CPWD Goa was the client.

Students Achievements: Mr. U V Rohith and Mr. Fardeen Hasan got selected in direct Ph.D programme at IIT Gandhinagar. Ms. Shaivi Chanekar and Mr. Kaushik Bhat got selected for PG programme at IIT Gandhinagar. Mr.U V Rohith got selected at IIT Hyderabad for Ph.D program. Mr. Atharva Mopkar, Mr. Devendra Patidar, Mr. Fardeen Hasan and Mr. Kaushik Bhat, B.Tech final year (Batch 2020-24) students got placed at Larsen & amp; Toubro as Graduate Engineer Trainees. Mr. Sameer got placed at Tata Consultancy Services. Mr. Gohil Kanak and Ms. Saniya Saraf were selected for summer internship at IIT Madras.



# DEAPRTMENT OF COMPUTER SCIENCE AND ENGINEERING (CSE)

The Department of Computer Science and Engineering (CSE) at NIT Goa offers B.Tech, M.Tech, and Ph.D. programs. Our department is supported by seven regular faculty members, three ad-hoc faculty, three technical staff, and a office staff. Our faculty specialize in key areas such as Machine Learning and Data Science, Security, and

Computer Networks. They have published extensively, with over 250 journal papers and more than 230 conference papers. To date, the department has completed ten research projects valued at approximately 2.4 crores, with four ongoing projects worth around 4.8 crores. The department has awarded Ph.D. degrees to a total of 18 scholars to date. Faculty members have delivered over 200 invited talks, guest lectures, and keynote addresses. The department has organized numerous international conferences, ATAL Faculty Development Programmes, workshops, and short-term courses such as GIAN. Recently, we hosted an online webinar on CDAC's PARAM Utkarsh supercomputing facility. Our Ph.D. alumni work in prestigious government institutions, including NITs, IIITs, and state universities. For the 2023-24 academic year, NIT Goa achieved an 83.2% placement rate for the eligible B.Tech graduating batch, and all M.Tech CSE students successfully completed industry internships. Our B.Tech and M.Tech alumni pursue higher studies at esteemed institutions such as IISc Bengaluru, IIT Madras, IIT Delhi, IIT Mandi, IIT Bombay, and IIM Bengaluru, as well as at universities abroad. The work of our students continues to be published in renowned international conferences and journals. Additionally, the department has initiated Alumni Talks and a Lecture Series in this academic year 2023-24.



Sanat Naik (23CSE1024), a first-year B.Tech CSE student, achieved first place in the July Coding Challenge, showcasing his exceptional coding skills. Ujjawal Patel (23CSE1032), also a first-year CSE student, secured third place in the same competition. In a different realm of excellence, Shreya Majik (23CSE1026), another Student of first-year CSE, was awarded the CCRT (Centre for Cultural Resources and Training) scholarship for her talent in Tabla, underscoring her remarkable achievements in the field of music. Ashish Singh (21CSE1003) has been recognized as a finalist in the OpenHack 2024 Hackathon, hosted by the Indian Institute of Science (IISc), Bangalore. Joyal Joseph, who served as the Web Development Lead for the Google Developer Students Club at NIT Goa during the 2023-24 year, has also achieved notable recognition. Shruti Patil(21CSE1034), another standout, was a finalist in the Open Hack24 Hackathon at IISc Bangalore. Ketan Kunkalikar (21CSE1016) earned a 4-star rating on CodeChef at Goa Engineering College and achieved Specialist status on Codeforces at Don Bosco College of Engineering. Devansh Garg (21CSE1008) emerged victorious in a 14-hour Jeopardy-style Capture the Flag (CTF) contest during Spectrum'24, hosted by Goa Engineering College. The final year B.Tech students of the CSE department have achieved significant milestones recently. Pritika Barshilia and Suyash Mirchandani(batch 2020-2024) were awarded the Goa State Innovation Council Grant for their project on "Modelling and Simulation of Brain-Computer Interface for Lie Detection using Deep Learning Paradigms and Fuzzy Logic," guided by Dr. Damodar Reddy Edla. Ms. Nivedita Kasyap, Mr. Jayendra Pal, and Mr. Roshan Kumar Singh secured second place in the MAECOFIN inter-collegiate competition at BITS Pilani Goa Campus. Aman Kushwaha, Sumit, and Varun Pandiya won the first prize at the national 24-hour hackathon organized by MNIT Jaipur. Additionally, Pritika Barshilia received the DAAD-WISE scholarship for a research internship at Ludwig Maximilian University (LMU) in Munich. Zubin Shah(20CSE1030) has demonstrated exceptional skill, winning the 1st Prize in the Infofest Hackathon hosted by Goa University, and achieving 2nd Prize at IIT Goa's HackTheGames Hackathon. He also earned a LeetCode KnightBadge with a peak rating of 2003 and clinched 1st Prizes in various coding competitions, including Codeit To WinIt, Arena De Codigo, and Code Cosmos. Furthermore, he was a finalist in the HackRx Hackathon and won the HackAI

Hackathon at IIT Bombay. Zubin was recognized as a Regionalist with a rank of 153 in ICPC Amritapuri and was the President of the Coding Club at NIT Goa for the 2023-24 year. Students of third year B.Tech, Shruti Patil, Vaibhav Yadav, and Gunaditya Patil won second place in Inspirathon, a 24-hour hackathon organized by Don Bosco College of Engineering. Atharva Khade and Harsh Patel received the 2nd Best Paper Award in the Security and Privacy Track at the IEEE International Conference on Blockchain and Distributed Systems Security at IIIT Raipur. Devansh Garg, Zubin Shah, and Aryan Shrivastav won first place in Capture the Flag at Spectrum 2024 at Goa College of Engineering, while Zubin Shah and Aryan Shrivastav also achieved top spots at Code Cosmos. Ketan Kunkalikar(21CSE1016) and Abhishek Choukuse won 2nd place in Binary Nebula at Spectrum 2024. Additionally, Shruti Patil, Ashish Singh, and Ayushi Kandpal were finalists at the Open Hack Hackathon at IISc Bangalore, and Jayendra Pal, Bryson Gracias, Shantanu Ranjeet Ingale, and Shivansh Pandey were shortlisted for the finals of Hackfest at NMITE Udupi. Finally, Ms. Konjeti Manju Sree, a final year M.Tech student, won the PG Top-Up Fellowship Grant from IISc Bangalore's Skilling Program 2023@ARTPARK for her project on "Early Detection of Parkinson's Disease using Deep Convolutional Neural Network Models and Bio-Inspired Optimization," under the guidance of Dr. Damodar Reddy Edla.

The Department Faculty members have achieved remarkable milestones in 2023-24, highlighting their significant contributions to their fields. Notably, Dr. Damodar Reddy, Dr. Modi Chirag Navinchandra, and Dr. Venkatnareshbabu Kuppili were recognized as among the world's top 2% most influential scientists for the year, according to a Stanford University study. Dr. Chirag Modi, Dr. C. Vyjayanthi



(Dept. of EEE), and Dr. Amol Rahulkar (Dept. of EEE) secured a consultancy project from Siemens Ltd. Goa. Dr. Venkatnareshbabu Kuppili also published a notable paper titled "An embedded feature selection method based on generalized classifier neural network for cancer classification" in Computers in Biology and Medicine, an SCI Journal with an impact factor of 7.0. In terms of outreach and educational initiatives, Dr. Kuppili and Dr. E. Mallikarjuna (Dept. of ECE) had organized a five-day workshop on "Deep-Learning Approaches for Inverse Problems in Imaging," supported by SSR Activities, SERB, and DST, and Dr. Kuppili facilitated a meeting between IIT Bilai students and Padmashree Tulsi Gowda ji as part of the Yuva Sangam outreach activity. Dr. Pravati Swain was selected for the Short Research Trip to France (SRTF) 2023 program. Patents awarded this year include several innovations: Dr. Chirag Modi and Dr. C. Vyjayanthi (Dept. of EEE) received an Indian Patent for an IoT-enabled smart solar photovoltaic module, and with their students, another patent for a portable electric vehicle charging system. Dr. Damodar Reddy Edla and his Ph.D. scholar Mr. Akhilesh Kumar Singh were granted a patent for an adjustable solar-powered portable charger, and with another scholar,

Mr. Deepak DM, a patent for an AI-powered medicine storage cabinet. Dr. Reddy also earned The Outstanding Associate Editor-2023 Award from IEEE Transactions on Instrumentation and Measurement and was elected as an ACM India Eminent Speaker. Additionally, Dr. Chirag Modi and Dr. C. Vyjayanthi (Dept. of EEE) received Rs. 9.96 Lakhs to conduct a GIAN course on "Blockchain Evolution and its Applications," and Dr. Modi organized a two-week hands-on workshop on ethical hacking and cybersecurity in collaboration with NFSU Goa. These accomplishments reflect the faculty's dedication to advancing research, practical applications, and educational outreach.



#### DEAPRTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING (EEE)

The Department of Electrical and Electronics Engineering offers B. Tech in Electrical and Electronics Engineering, M. Tech in Power Electronics and Power Systems and PhD programmes in the various fields of Electrical and Electronics Engineering. The department comprises of six

regular faculty members, two ad hoc faculty members, 6 technical staff members and one Junior Assistant staff. Presently there are 97 students in B. Tech and 6 students in M. Tech programme. There are 24 research scholars in the department out of which 06 are full time and 18 are part-time scholars. The major areas of faculty expertise include Power Systems, Power Electronics and Power Electronic Drives, HVDC Transmission. FACTS Controllers, Electrical Machines, Control Systems, Smart Grid, Signal Processing, Energy Management, Fuzzy Logic and Neural Networks.



Faculty Members Achievements: Faculty Members from Electrical and Electronics Engineering viz Dr Suresh Mikkili, Dr. B. Venugopal Reddy, Dr. Sreeraj E S, Dr C. Vyjayanthi, Dr. Amol D. Rahulkar and Dr. Soumitra Das continue to publish their work in reputed Science Journals such as IEEE CPSS Transactions on Power Electronics and Applications, Circuit World, International

Journal of Circuit Theory and Applications - Wiley and Journal of Control, Automation and

Electrical Systems –Springer, International Journal of Circuit Theory and Applications, in IEEE Journal of Emerging and Selected Topics in Power Electronics. Dr Soumitra Das has attended a "3 Day workshop" on electric vehicle power train design in July 2023, IISC Bangalore.

Students' Achievements: In a remarkable display of academic



excellence, Mr. Akash Srivastava, a distinguished 2021 batch graduate and Gold Medallist, has achieved exceptional feats in the GATE 2023 examinations. His outstanding performance has earned him the prestigious All India Rank (AIR) - 1 in Instrumentation Engineering and an impressive AIR 78 in Electrical Engineering. These remarkable accomplishments serve as a testament to his dedication and scholarly provess. Furthermore, the academic community welcomes two accomplished Ph.D. Scholars, Dr. Suneel Raju Pendem and Ms. Kavita Nanshikar, who have joined as regular faculty members, assuming the roles of Assistant Professors. Dr. Suneel Raju Pendem brings a wealth of knowledge and expertise to MNNIT Allahabad, while Ms. Kavita Nanshikar enriches the faculty at GEC Goa with her invaluable contributions. Their appointments signify a significant step forward in advancing the academic excellence of these esteemed institutions.

This year one PhD scholar from EEE have submitted her PhD Thesis. Students from EEE namely Mrs.Chavan Vinaya C, Mr.Praveen Kumar B, Ms. Swetha KT, Mr Jayesh Priolkar, Ms. Kavita Nanshikar and Ms Nivedita Naik have worked in reputed journals such as : IEEE CPSS Transactions on Power Electronics and Applications, Circuit World, International Journal of Circuit Theory and Applications – Wiley and Journal of Control, Automation and Electrical Systems –Springer, International Journal of Circuit Theory and Selected Topics in Power Electronics.

Ms. Emily Grace Gummadi, Mr.Santhosh Yedla and M. Tech. students Mr. Aditya Shivanand Shirodkar & Mr. Ashish K Gupta 2023 have presented their research work in National and International IEEE International Conference on Power Electronics and Energy (ICPEE) Bhubaneswar, International Conference for Advancement in Technology, IEEE 8th International Conference for Convergence in Technology (I2CT), Pune, and International Conference for Convergence in Technology (I2CT), Lonavla.

Students Achievements: All undergraduate students who have registered for placement have been placed in various public and private sector companies with a maximum and average salary of 20 lakhs per annum and 12.74 lakhs per annum respectively. Bharat Petroleum Corporation limited has placed 6 students while others have joined following organisations: Squadstack,

Quantiphi, Samsung Display, JSW, Prism Johnson, Jio, HDFC Signdesk, Billdesk, Tredence, Turtlemint, Nokia, Kantar, Ashok Leyland, Winjit, and CGI.

Alumnus of EEE department, Akash Srivastava (2017-2021) has secured AIR- 01 in Instrumentation Engineering with Score 968 and AIR 78 in Electrical Engineering with score 805 in GATE 2023.

Ms. Kavita Namshekar have got a position as an Assistant Professor in Goa Engineering College, Mr. P Suneel Raju MNNIT Allahabad have got a position as an Assistant Professor and Mr. MAdhu G M have got a position as a Senior Executive at Siemens Ltd, Goa.

**Tesla:** Many activities have been undertaken by the student association of EEE department, TESLA, which is the first student association in the institute. To kindle the spark of creativity and zeal of entrepreneurship, TESLA organised a talk on "Entrepreneurship Empowerment for Engineers" given by Mr. Sachin Rajgire, Founder of WYNISCO on 20th Feb, 2023. An enthralling experience of underarm control cricket was organized among the EEE department by TESLA on 21st and 22nd Feb 2023. TESLA also organised a badminton Tournament for the entire college during 7th to 9th April 2023. TESLA organised an industrial field trip on 20th April 2023 to Marine Electricals, Vasco for the second year and third year students to give a practical insight on various aspects of Electrical Machines like on 20th April 2023 like repair, maintenance, and winding.

Dr Suresh Mikkili has published four papers in the following journals: IEEE CPSS Transactions on Power Electronics and Applications, Circuit World, International Journal of Circuit Theory and Applications – Wiley and Journal of Control, Automation and Electrical Systems –Springer during the said period. These paper are co-authored by research scholars Chavan Vinaya C and Praveen Kumar B.

Dr. B. Venugopal Reddy and Swetha KT, research scholar has published one journal paper in International Journal of Circuit Theory and Applications, Wiley during the said period.

Dr. Sreeraj E S and Jayesh Priolkar, research scholar has published one journal paper in IETE Journal of Research, while Dr. Soumitra Das and K. Nanshikar, research scholar has published one journal paper in IEEE Journal of Emerging and Selected Topics in Power Electronics during the said period and Dr C. Vyjayanthi and Nivedita Naik, research scholar has published one journal paper in IEEE Access during the said period.

Research scholars Emily Grace Gummadi and Santhosh Yedla along with Dr Suresh Mikkili has presented a paper in 2023 IEEE International Conference on Power Electronics and Energy (ICPEE) Bhubaneswar.

Research scholar Nivedita Naik and Dr C. Vyjayanthi has presented a paper in 2023 International Conference for Advancement in Technology during January 2023. M. Tech. student Aditya Shivanand Shirodkar and Dr. C. Vyjayanthi has presented a paper in 2023 IEEE 8th International Conference for Convergence in Technology (I2CT), Pune. M.Tech. student Ashish K Gupta and Amol D. Rahulkar has presented a paper in 2023 International Conference for Convergence in Technology (I2CT), Lonavla. Ashish K Gupta, Nivedita Naik, and Amol D. Rahulkar has presented a paper in 2023 International Conference on Energy, Power and Environment (ICEPE 2023), NIT Meghalaya, Shillong.

# DEAPRTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

The Electronics and Communication Department of NIT Goa was established in 2010. It offers B. Tech. (ECE), M.Tech.(VLSI) and Ph.D. programs in Electronics and Communication Engineering. The goal of department is to educate and inculcate the state-of-the art skills in the broad area of electronics



and communication engineering among students. The department has well equipped laboratories to cater the needs of UG, PG and PhD students. The department has been involved in a broad spectrum of research areas, from nanotechnology and microelectronics to signal processing and communication, to name a few, with the aid of projects funded by prestigious funding agencies from India and abroad.



Dr. T. Veerakumar has coauthored a Textbook titled "Digital Signal Processing: Illustration Using Python," published by Springer Nature, Singapore, Pte Ltd. Also, he has published four Journal papers two are in IEEE Transactions and one each in Springer and Elsevier. Dr. Anirban Chatterjee and his guided PhD student, Dr. Kalvan Sundar Kola, published two SCIE-indexed papers



in AEU and IJCS. Their conference paper at IEEE SILICON-2023 (Nov 3-5, 2023) won the Best

Paper Award. Dr. Anirban Chatterjee, along with Dr. Deven G. Patanvariya, Dr. Kalyan Sundar Kola, and Dr. Vasantha M. H., has been awarded a patent for the "Fibonacci Series Based Rectangular Microstrip Fractal Patch Antenna". Dr. Trilochan Panigrahi has published 6 journal articles and 5 conference papers from July 2023 to Aug 2024. Among the publications, two conference publications are with undergraduate and postgraduate students. He received the best paper award at the National Conference on Intelligent Systems, IoT, and Wireless Communication for the Society, held at the National Institute of Technology Rourkela, Odisha, on 16-17th Feb. 2024. He delivered expert lectures in various FDP and workshops.

The "Team Alchemist" student team won the AICTE Smart India Hackathon Winner. The team comprises Mr. Deepak S, Mr. Manobhav Sachan, Mr. Ambesh Gaunker and a few students from CSE and EEE.

#### DEAPRTMENT OF MECHANICAL ENGINEERING (MCE)

The department of Mechanical Engineering was established in the year 2018. The department offers B.Tech. and Ph.D. programmes in Mechanical Engineering. The department has a total of eleven faculty members in which one is in Adjunct Faculty position, three technical staffs and one office assistant. There are seven Ph.D. scholars in the



department. The major areas of faculty expertise include Design for Assembly, Applied Ergonomics, Single phase & multi-phase Flow, Micro and Nano heat transfer, Manufacturing Technology, Welding, Nonlinear Dynamics, Waves and Mechanical Vibrations, Vibrations Induced Particle Motion, Computational Mechanics, Non-linear Finite Element Methods, Magneto-electro-elastic effects in Cosserat rods, Machine Dynamics, Fracture Mechanics, Power Plant Engineering, Fluid Dynamics, Transitional and Turbulent flows, Design of Wind Tunnels, Droplet evaporation, Electromagnetic Impulse Multicomponent Forming Process, Electromagnetic Powder Compaction and Electromagnetic Forming Process FEM Modelling, Electromagnetic Welding, Powder Metallurgy, Electro Hydro Forming Process, Vaporized Foil Actuator Forming, WAM (Wire Arc Additive Manufacturing Process), and Friction Stir Welding, Manufacturing, Minimum Quantity Lubrication, Automation, and Mechatronics

The department has dedicated labs for B.Tech. students, which include fully equipped workshop, drawing hall, CAD/CAM lab., Mechanics of Solids Lab, Fluid Mechanics and Machinery Lab, Wind Tunnel Lab, and Advanced Manufacturing Lab etc. The CAD/CAM lab is equipped with the latest industry-oriented design, modeling, and analysis software like SOLIDWORKS, CATIA, AutoCAD, Ansys, Mastercam, etc. In various labs, there are Manual and CNC operated machines available to train the students in both the modes of operations as per the current demands in the various industries.
The faculty members have published more than 100 research articles in the reputed journals published by Elsevier, Springer, ASME, Taylor & Francis, SAGE, etc., along with more than 50 conference proceedings in various international conferences. The faculty members of the department have published 6 book chapters with publishers such as Springer, Wiley, Taylor & Francis, Bentham Books, etc. Faculty are also involved in interdisciplinary projects with various institutes in India (NITs/IITs). Faculties are also encouraged to publish single author research articles and they have published several single authored research articles in various reputed international journals. Faculties are successfully completed various research projects funded by DST, DRDO, ISRO, ARTPARK (IISc), etc. The departmental faculties and technical staffs are always encouraging the interdisciplinary project works and the students get benefitted in the Mechanical Workshop for several fabrication works.

Apart from teaching and research, the faculty members of the department are engaged in various outreach activities. Besides imparting quality education to the students, the department is actively engaging the students to participate in various conferences/competitions. The department regularly organizes workshops, lab/industrial visits and talks by eminent personalities in the emerging areas of Mechanical Engineering. The students of the department have been placed in various industries like AEQUS, ECAP, Himgiri Castings, Goa Dairy, IFB, etc.

The MECHANICAL ENGINEERING TECHNICAL ASSOCIATION (META) formed in 2019, is organizing different curricular and extra-curricular activities like educational trips, industrial visits, lectures by professionals and distinguished engineers in the field of Mechanical engineering. Along with the faculties and staffs, the students went for industrial visits in NITK, Surathkal, BITS-Pilani (Goa Campus), etc. to explore different engineering labs. META organized different cultural and technical events such as "Torque Tales", an event of alumni meet which was first ever alumni meet event for the Mechanical Engineering Department. That event was included technical talks by eminent academician and by our successful alumnus. META conducted various technical talk for knowledge transfer such as "Maglev EDM" on 13th December 2023 by Dr. Vivek Bajpai, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology (ISM), Dhanbad, and "Modelling of Gaseous Radiation for Applications of Combustion, Plume Radiation" by Dr. Pradeep Kumar, Associate Professor in the School of Mechanical and Materials Engineering at Indian Institute of Technology, Mandi.

Most of the eligible candidates from Mechanical Engineering are getting placed in Core companies like Ashok Leyland, Ingersoll Rand, Larsen & Toubro, Technip Energies, Deccan Fine Chemicals, Deccan Enterprises, Bilt Graphic Paper Products Ltd. with the highest package of 12 LPA whereas the Average salary is around 8 LPA. In addition, students availed opportunity to pursue their higher studies from premier institutes by clearing GATE and GRE. Few students are completing their final year in IIT Hyderabad and IIT Madras. In addition, the students are doing their summer internship in various renowned organizations if INDIA such as ONGC, IOCL, Airport Authority of India (AAI), IIT Madras, etc. Apart from the academics, the students of the department are actively involved in extra-curricular activities. 3rd year B.Tech.

students attended a one-week workshop on Design of Electric Vehicles organized by Manipal Institute of Technology, MAHE, Manipal. Mr. Saksham Jain, (3rd year) won first place and a cash prize of Rs. 3,00,000/-. in "Hack The Future", hosted by IIT Gandhinagar. Mr. Saareesh Naik, Mr. Yash Kamat, and Mr. Yash Patil (2nd year) won first place in the "Galactic Expedition" at Goa College of Engineering. Mr. Aadarsh Patil (4th year) secured second in "Solidworks 3D Modeling" held at Goa College of Engineering. Mr. Anand Mishra, a 4th year B.Tech. student was selected in Inter NIT cricket championship 2023 as a pacer, received 2nd prize in SPARDHA (META event) and got 5th position in mini marathon held at NIT Goa. Ms. Jeednya Bhaskar Sade and Mr. Sahil Rajesh Lawande accepted into the Student Exchange Programs at IIT Madras and Hyderabad, respectively. Mr. Sahil Rajesh Lawande qualified for GATE-XE 2024 with a 42/100 (Thermodynamics and Fluid Mechanics), a GATE score of 429 and an All India Rank of 1201. Simultaneously, students are attending and completing various career oriented online courses e.g. Python programming and Machine Learning etc.

#### **RESEARCH AND DEVELOPMENT**

NIT Goa since its inception has contributed significantly to the research. Almost all the faculty members have sponsored research project. Till date 54 projects [37- Completed, 17- ongoing] have been under taken by the faculty members under various funding agencies like Department of Science & Technology, Ministry of Science & Technology, India, Science & Engineering Research Board, India, Ministry of New & Renewable Energy, CEERI, Pilani, Indian Council of Social Science Research, Siemens Ltd. Goa, MEITY, IISC Bangalore, Media Lab Asia etc. worth of nearly 36 crores. Institute sanctioned 27 seed money projects worth of 2.3 crores to encourage and support the faculty in the development and submission of proposals for external funds. 20 patents have been granted to the Institute and 18 have been already under consideration. The Institute is expanding its research initiatives in the international arena with many ongoing foreign collaborations in cutting edge technology. In addition, the Faculty members of NIT Goa published more than 700 Journal articles in reputed Journal publishers such as IEEE, ACM, IET, Elsevier, Wiley, Springer etc., 596 conference proceedings, 60 books and 15 book chapters till date.

To strengthen the ties with Industries and International and National Universities, NIT Goa has signed MOUs with the University Paris XIII named University Sorbonne Paris Nord USPN, Telecommunications Consultants India Limited, National Institute of Entrepreneurship and small business development (NIESBUD), Airport Authority of India, Goa Institute of Public Administration & amp; Rural Development (GIPARD), BITS BioCyTiH Foundation, BITS Pilani, India, INFLIBNET Centre, Gandhinagar, Gujarat, IIT Madras, IIT Hydrabad, IIT Mandi, IIT Jammu, SVNIT Surat, Airport Authority of India, MNNIT Allahabad, Siemens Limited, Goa, National Forensic Sciences University (NFSU), Goa, SVNIT Surat, University of Cyprus, the University of Agder, Campus Grimstad, Norway, INJE University, Republic of Korea, Global Foundries, Singapore, Euro Practice IC service-Belgium, United Kingdom Research and Innovation and many more. These MoUs are meant for faculty and student exchange programs, upskilling of trainees, knowledge sharing, carrying out interdisciplinary research works among

the institutes, joint research guidance, curriculum and course developments, joint workshops, conferences, seminars, and many other programs organizations..

**NPTEL (MOOC Course):** NPTEL study centre has been functioning at NIT Goa since 10<sup>th</sup> August 2015, which is a part of e-SWAYAM platform, MHRD, GOI. NIT Goa has included NPTEL courses in the UG and PG curriculum and offered as elective and blended courses since 6<sup>th</sup> January 2016. In addition, all the NPTEL video lectures and other materials are collected and made them available at NIT Goa library website. The NPTEL lectures are regularly updated on NIT Goa website. Such lectures help the NIT Goa students to learn the relevant courses in addition to their course work. NIT Goa faculty and students are using the benefits of this platform to improve the teaching learning process.

*Start-Up Centre:* National Institute of Technology Goa has been sanctioned a Startup Centre with joint funding from Ministry of Human Resource and Development (MHRD) and Department of Science and Technology (DST), Government of India. This is one among the thirteen new startups, established in Technical Institutes of National Importance. The primary objective of this centre is to develop an ecosystem of Startup culture for the betterment of the society at large, by producing job givers rather than job seekers. The centre would host up to 10 Startups with financial, technical and legal supports, every year.

### TRAINING AND PLACEMENT CELL

In the recruitment cycle of the 2023-24, more than 120 companies visited NIT Goa for campus placements for both the B. Tech and M. Tech students. More than 40 companies extended offers to NIT Goa students. In spite of the global slowdown and recession in the job market across world, our students have performed well. A significant highlight of this placement season is the selection of few students in Public Sector Undertakings (PSUs), like MECON, BSES. Some of our students are also working in prominent PSU like BEL and BPCL etc. to name a few. NIT Goa achieved 83.4% overall placement with average offer to B.Tech 8 LPA and highest salary of 20LPA. Nearly 100% M.Tech students got an internship position in leading multinational corporations such as AMD, Global Foundries, Intel, Qualcomm, Smart SOC, DELL, BOSCH, etc. 12 out of 17 M.Tech. VLSI students got placement offer from companies like Intel, Marvell, Synopsys, Cadence etc., with a maximum package of 35 LPA from Marvell Technology and average package is ~20 LPA. In Computer Science and Engineering, 3 out of 7 M.Tech have secured employment during internship with esteemed companies such as Dell, Infineon, and Thinkseed Systems, with the highest package of 19 LPA and average package of 14 LPA.

### **CENTRAL FACILITIES AND SERVICES**

*Lab Facility:* The Department of CSE labs are equipped with all the required software needed for the U.G. and P.G. programmes. The department has four high-end rack servers. In the EEE Department laboratories, experimental works related to courses like Electrical Machines, Power Electronics and Drives, Control Systems, and Circuit theory are being carried out. The department also has Computational facilities to perform numerical simulations and also real time simulations. Along with these, Programmable electrical sources and other measurement devices

are available in the laboratories to facilitate research. In the Department of ECE, hardware experiments are being conducted, which is equipped with 10 digital storage Oscilloscope, 10 manual function generator, 4 programmable function generator and it has also communication kits like AM, FM, PWM, TDM, FDM, Antenna test bench and micro wave test benches. Wireless sensor network class room kit helps the students to learn WSN experiments. Microprocessors and Microcontroller kits with interfacing cards for Microprocessor Lab had also been available. In addition, VLSI Lab is equipped with XILINX, CADENCE, Mentor Graphics and SILACO software. The laboratory has hardware interfacing like basys3, kintex and zynq boards with 40 high end system computer facilities and one workstation. The Department of Applied Sciences has independent labs such as Physics and Chemistry for 1<sup>st</sup> and 2<sup>nd</sup> semester students to conduct the practical sessions. The department has also bought software to conduct Language Lab classes in Computer Lab. Apart from these, the dept of APS has research labs. Civil and Mechanical engineering Departments are equipped with the state of the are equipments to carry out experimental work.





*Workshop Facility:* Our Institute has a well-equipped workshop and a drawing hall. It provides centralized facilities for conducting the 1<sup>st</sup> and 2<sup>nd</sup> semester students of B.Tech. programme.

*Library:* The Institute has an up-to-date library with more than ten thousand books and e-books, thesis and dissertations, CD-ROMs, and back volumes of journals. The library subscribes thirty periodicals in print format and twenty thousand in electronic format from well-known publishers like IEEE, Springer Link, CMIE Prowess and ACM Digital Library. The electronic journals are accessible in the campus on the local network. Besides, printed books and other physical materials can be accessed in the library and borrowed for study.

The library helps users regarding getting available information, reading resources, and searching online catalogue and databases. Library online catalogue is provided by library software, and online databases are browsed through publishers' websites. Library also maintains a website for disseminating the library information including library rules; guidelines for issuing books, E-resources usage policy, back file e- collection etc. Other services such as anti-plagiarism software for checking similarity are provided through the library.

The library promotes uses of Massive Open Online Courses (MOOCs) available through NPTEL SWAYAM and also supports services offered by National Digital Library India. NIT Goa is one of the members of E-ShodhSindhu Consortium, which is initiated by MHRD in order to provide access to e-resources to Universities, Colleges and Centrally Funded Technical Institutions in India.

In total, the library of the institute is actively helping students in their learning and research activities.



*Hostel Facilities:* NIT Goa hostels provide accommodation for undergraduate (UG) and postgraduate (PG) students, catering to both girls and boys. We offer two separate hostels supervised by dedicated hostel caretakers and administered by experienced hostel wardens. For the safety



and security of our residents, NIT Goa hostels are equipped with CCTV cameras and manned by



security personnel round the clock. Internet facilities are provided through WiFi, ensuring seamless connectivity for academic and personal needs. Throughout the year, NIT Goa hostels host a variety of activities such as hostel day celebrations, welcome parties, and festive events, fostering a vibrant community spirit. We believe that hostel life at NIT Goa plays a crucial role in the personal and academic growth of our students, providing a supportive environment akin to a home

away from home.

**Gyan Mandir:** Gyan Mandir, the academic nucleus of the National Institute of Technology Goa, houses wellequipped classrooms and interactive spaces where students engage in vibrant discussions,



collaborate on projects, and pursue knowledge across disciplines, fostering a culture of learning and intellectual growth.



*Mandovi Seminar Hall:* The Mandovi Seminar Hall at the National Institute of Technology Goa stands as a versatile venue, seamlessly transitioning between scholarly seminars,

academic conferences, engaging lectures, and

vibrant cultural performances. With its adaptable design and state-of-the-art facilities, it serves as a dynamic hub where ideas are exchanged, knowledge is disseminated, and cultural expressions are celebrated, enriching the academic and cultural landscape of the Institute.



*Playground:* Playground at the National Institute of Technology Goa is more than just a field; it's a dynamic space where students come together to unwind, compete, and bond through sports and recreational activities. With its vast expanse and modern facilities, the playground serves as a hub for physical fitness, team spirit, and leisure, offering students a well-rounded college experience beyond the confines of the classroom.



*Health Center:* Sushruta Health Center, located centrally, provides comprehensive healthcare services. Staffed with a Medical Officer, Counsellor, Technical Assistant, Nurse, and Ambulance Drivers, ensures 24/7 medical assistance. The health center includes facilities such as Electrocardiogram, Oxygen Cylinder, Pulse Oximeter, Nebulizer, Glucometer, and other emergency equipment. In addition, it provides prescribed medicines and medical appliances since 2022. Nursing offers outpatient services including dressing and administration of medicines. E.C.G is vailable for patients in need. It has dressing room to facilitates minor surgical procedures.



#### ALUMNI ASSOCIATION

NIT Goa feels proud for its quality alumni base, serving different sections of society. The Alumni Association of NIT Goa was officially formed during the first convocation in September 2015. A strong alumni network has been designed for taking up welfare measures for both alumni and the alma mater. Our alumni association has a strong presence in the PAN NIT Alumni Forum, and it is constantly contributing its share towards developing the "Brand NIT". The 1st Global Alumni Meet was conducted on 26<sup>th</sup> January, 2018 and the Bharat Darshan Programme. Currently, the Institute has approximately 1300 alumni since its inception in 2010. The alumni are well placed in MNCs and research institutes across the world like in the US, Europe, IITs, and IIMs. Many students have obtained research grant under PMRF. Further, few students went abroad for postdoc research in research labs at USA, Singapore etc. Five B. Tech students of NIT Goa joined as Ph. D scholars at IIT Madras, IIT Bombay, IISc Bangalore, and IIT Goa under the Prime Minister Research Fellowship Scheme (PMRF) and many more students joined in MS programs in various global Universities.

#### **OUTREACH CELL ACTIVITIES**

**Rashtriya** Avishkar Abhiyam (RAA): The Department of School Education and Literacy, Ministry of Human Resource Development (MHRD), Govt. of India, had introduced a novel programme: Rashtriya Avishkar Abhiyan (RAA) through an Order (File No. 20-5/2014/EE.17, dated 28th May, 2015) with a view to 'provide nourishing and nurturing support to and a platform for schools in a dual track approach to make Science, Mathematics and Technology (SMT) exciting to children and encourage them to have an enduring interest in both inside classroom and outside classroom activities. The Institute has



conducted variuos programmes under Rastriya Avishkar Abhiyaan (RAA).

- NIT Goa conducted various experimental • workshops and hosted the schools students and teachers of the following schools:
- PM SHRI Govt. School, Gaval Khol, Canacona, • Goa, on 3rd May 2024
- New English High School, Digas Panchawadi, • Goa, on 27th March 2024
- Maria Bambina Convent High School, Cuncolim, • Goa, on 6th March 2024
- Govt. of Goa PM SHRI School Morpirla, on 21st • February 2024







#### The Navhind Times

### PM Shri Govt. HS Morpirla students visit NIT Goa

#### NT KURIOCITY

Students from PM Shri Government High School Morpirla, visited the National Institute of Technology

National Institute of Technology (NIT) at Cuncolim. The tour aimed to provide a comprehensive understand-ing of campus life and infrastructure at NIT Goa. Associate professor of physics in the Department of Applied Sciences, Saidi Reddy Pame provided a detailed over-view of the diverse programmes offered at the institution and conducted a guided tour, showcasing the academic buildings, laboratories, library, and other facilities. Interactive sessions were organised, featuring faculty members and students sharing their experiences and insights

reauring inclusive memoers and sudering sharing their experiences and insights into the diverse engineering disciplines offered by the institute. The students engaged in discussions and explored potential career paths in engineering. The day's first session focused on ex-Ine days first session focused on ex-perimental physics, conducted by Dr. Parne. The topic, 'Introduction to Light' explored the five main proper-ties of light: reflection, refraction, dif-fraction, interference, and polarisation. He also explained key terms such as wavelength, frequency, amplitude, and the electromagnetic spectrum.

The following session on experimental chemistry, was led by Dr. Velavan Kathirvelu. She demonstrated the titra-tion technique for determining chlor-ide ion concentration in a vater sample using silver nitrate as the titrant. Dr. Kathirvelu also explained the use of potassium chromate indicator solution potassium chromate indicator solution and the associated equipment like bur-ette, conical flask, and pipette. The session also covered an experiment using the Abbe Refractometer to find the re-fractive index of water. The session on basic mathematics con-

Ine session on basic mathematics con-ducted by Dr. Ravi Rogoju introduced the concept of special factorisation us-ing Pascal's triangle and explained the difference in squares of numbers to simplify mathematical formulas and

calculations. The concluding session led by Dr. Sarani Metodication of the second of

Post the sessions, the students interacted with the director of NII, professor O. R. Jaiswal. He encouraged students to maintain curiosity, nurture hobbies and strive for independence, and urged early training for students. *Swach Bharat Abhiyan (SBA):* Honorable Prime Minister, in his Independence Day speech on 15thAugust 2014, espoused the need for a clean India. He called for Swachh Bharat Abhiyaan (SBA), a massive mass movement that seeks to engage everyone in the task of cleaning homes, work places, villages, cities and surroundings, in a collective quest.

NIT Goa is actively participating in Swachha Bharat Abhiyaan (SBA) activities since its inception. The Institute has organized the following activities. Swachhata Hi Seva" Campaign: The Institute has conducted a cleanliness drive on 25th April 2024 (Thursday) at 4.15 pm. Around 100 students, Faculty and staff members were participated. NIT Goa organized cleanliness drive on 21st March, 2024, as part of the "Swachhata Hi Seva" Campaign. Our team of 60, including students, faculty, and staff, worked tirelessly to spruce up our campus, tackling roadsides and green areas. Together, we're shaping a cleaner, greener tomorrow!



**Rajbhasa Samiti of NIT Goa:** The Rajbhasha Prakhosth has been assigned the responsibility of managing and implementing the official language act across all the departments of NIT Goa. The Rajbhasha Prakhosth assists in translating Institute's Annual Report and Annual Accounts from English to Hindi for sending them to Ministry for their placement in the Parliament. It has its own website to manage and disseminate the information regarding transactions of documents and the hosting of various events. It has a well-established setup with a full-fledged Library of not less than 300 Hindi books and technical dictionaries. Its activities include translation of Annual Reports, Annual Accounts, Audit Reports, different nameplates, preparation of Degrees in Hindi, and publication of a yearly Hindi magazine "Urba". In addition to this, Rajbhasha Prakosth organizes training programs or workshops to propagate and popularise the use of Hindi as the official language.

*Ek Bharat Shreshtha Bharat (EBSB):* Ek Bharat Shreshtha Bharat (EBSB), a flagship program of the Government of India, aims to enhance interaction & promote mutual understanding between people of different states/UTs through state/UT pairing. EBSB Club of NIT Goa fosters cultural exchange through programs like Pongal, Hackathon, and Navya. The club celebrates GudiPadwa and Ugadi, thereby strengthening regional bonds. NIT Goa organized Yuva sangam

Phase III as a nodal Institute from 17th December 2023 to 22nd December 2023. IIT Bhilai was our pairing institute. Along with five faculty members, 50 Yuva Sangam participants attended the event.



### STUDENTS' CLUBS AND CHAPTER ACTIVITIES:

**SPIE:** SPIE, the International Society of Optics and Photonics opened its student chapter in NIT Goa in 2012 to promote research and disseminate knowledge in the field of Optical Engineering. Over the years, our chapter has been growing and conducting various activities to make the students aware of the latest advances in the field of light technology. The effort has been made by Dr. Saidi Reddy P to motivate the students to do active research in the area to contribute to the world of optics and also at the same time, conduct outreach activities for the benefit of the society.

*IEEE STUDENTS CHAPTER:* The Institute of Electrical and Electronics Engineers (IEEE), formed in 1963, is today, the world's largest association of technical professionals with more than 400,000 members in chapters around the world. National Institute of Technology Goa is an institute member of IEEE since 2011. We started 'IEEE Student Chapter NIT GOA' in 2015 under the leadership of Dr. Ankit Prakash Dubey, Assistant Professor, Electronics and Communication Engineering. The student chapter has conducted many activities including tutorial presentations on Home Automation, Embedded Systems as well as Tesla Coil.

*Coding Club:* Coding Club aims to encourage students to apply their knowledge and programming skills to build applications together. Pranav Tikone, Numan Maldar, Shivansh Pandey, and Hamees Muhammad, students of B.Tech. CSE, were shortlisted to the finals of Nexus 2023, a 36-hour hackathon organized as part of iConclave' 23, at IIIT Pune, during 26-28 October 2023. Coding Club of NIT Goa hosted a thrilling 24-hour Intra-Institute Hackathon, Winter



Hackathon, on 4th and 5th Nov, 2023. This event served as an important platform giving opportunity to students in technological innovation and in bringing a competitive spirit within the tech minded community of students.



Two teams of students won the first position at the Smart India Hackathon 2023, a 36-hour non-stop coding competition, jointly organized by the Ministry of Education's Innovation Cell and the All India Council of Technical Education (AICTE), held during 19-20 December, 2023. The first team, index.tsx, comprised Abhiraaj Verma (B.Tech. ECE), Aman Tiwari (B.Tech. ECE), Piyush Singh (B.Tech. EEE), Vijay Gautam (B.Tech. EEE), and Karan Barai (B.Tech. CSE). They won the first position for solving PS ID: SIH 1508, floated by the Ministry of Power, Govt. of India at the Smart India Hackathon 2023. They had created a dedicated Procurement Data Portal as well as Vendor

Payment Data Portal to capture all data related to NEEPCO's Procurements and Payments' including

procurement from MSE Sector and procurement in GeM Portal. The second team, Team Alchemist, comprised Deepak S (B.Tech. ECE), Manobhav Sachan (B.Tech. ECE), Ambesh Gaunker (B.Tech. ECE), Aman O Kushwaha (B.Tech. CSE), Ann Mariya Roy (B.Tech. CSE), and Darshan Bilana (B.Tech. EEE). The team won the first position for PS ID: SIH 1435, floated by the Ministry of Rural Development, Govt. of India. They had created a portal that incorporates an algorithm to measure the increase in income of Farmers Producer Organisation under



WDC2.0.TeamLegalConnect, comprisingofShantanuIngale,



Rakshitha K, Ayushi Kandpal, Poonam Prabhugaonkar, Pranav Tikone, and Shivansh Pandey, students of B. Tech. CSE, were also shortlised to the finals of Smart India Hackathon 2023, for PS ID: 1457, floated by MathWorks India Private Limited. Aryan Shrivastav, Zubin Shah, Omkar Borker, and Aman Kushwaha, students of B.Tech. CSE, won the first prize at HackAI 2023, an AI-based hackathon, organized as a part of Techfest' 23, IIT Bombay, on 27 December, 2023. They developed an AI-enabled personal assistant powered by FetchAI's decentralized Web3 network that handles travel plans to a new city including cab booking and syncing of reminders through Google Calendar.

Shruti Patil, Ashish Singh, and Ayushi Kandpal were shortlised to the final round of OpenHack Hackathon, organized as a part of Open Day 2024 at Indian Institute of Science, Bangalore.

Saksham Jain (B.Tech. MCE), was part of the team that won the first position in Hack The Future, a 36hour hackathon, organized by IIEC, IIT Gandhinagar,



during 10-12 March 2024. Sagar Shirgaonkar, Ved



Shetye, Archit Bhargava, and Saksham Thakur (B.Tech. ECE) won the first prize in Spectrathon 2024, a hackathon organized as a part of Spectrum 2024, by GCE, Goa during 3-4 April 2024. Spectrum 2024 was a highly competitive and successful event for many other students as well.

Devansh Garg, Zubin Shah, and Aryan Shrivastav (B.Tech. CSE) won the first place in Capture the Flag. Zubin Shah and Aryan Shrivastav also excelled in Code Cosmos, taking first and second places, respectively. In Binary Nebula, Zubin Shah won first place, while Ketan Kunkalikar and Abhishek Choukuse (B.Tech. CSE) secured the second prize. A workshop was organized by Router Protocol on 21<sup>st</sup> March 2024. The concepts and potential applications of Web3 technologies were

introduced to the students during this workshop. Jayendra Pal, Bryson Gracias, Shantanu Ranjeet Ingale and Shivansh Pandey (B.Tech. CSE), were shortlisted to the finals of Hackfest (a national level hackathon) organized by NMAM Institute of Technology, Udupi, held on 5-7 April 2024. A team of students- Abhiraaj Verma (20ECE10032), Deep Shetye (20ECE1012), Niranjan Hebli (20CSE1019), Rahul Jalan (20EEE1022), Raj Naik Dhulapkar (20EEE1023) and Leander Vaz (21CVE1017) were the finalists of SmartIndia Hackathon 2022. Two teams of NIT Goa shared the third prize at the Goa Police Hackathon 2022. The first team comprised Raj Naik Dhulapkar

(20EEE1023), Omkar Borker (20CSE1021), Abhijeet Kadalli (20EEE1001) and Niranjan Hebli (20CSE1019). The second team comprised Gunaditya Patil (21EEE1013), Vaibhav Yadav (21CSE1038) and Tushar Pal (21CSE1036). Another team of students- Leander Vaz (21CVE1017), Rahul Jalan (20ECE1012), Raj Naik Dhulapkar (20EEE1013) and Deep Shetye (20EEE1022) were shortlisted to the final round of Centuriton Hackathon, which was held at Ramaiah Institute of



Technology, Bangalore from 25-27 November, 2022. Mandar Patade (19CSE1018), Aniruddh



Lawande (19ECE1016) and Kaivalya Gauns (19ECE1011) secured All India Ranks 31 and 35 in ICPC Asia Amritapuri Regional and Kanpur-Mathura Preliminary Contests respectively. Two teams of students were shortlisted to the second round of Geeks for Geeks Solving for India Hackathon which was held at Pune on 28 May 2023. The first team comprised Manobhav Sachan (20ECE1041), Deepak S. (20ECE1013), Sahil Reddy (20ECE1032), and Ambesh Gaunkar (20ECE1007). The second team comprised Shreya Gupta (21EEE1031), Riddhi Sinai Priolkar (21EEE1025) and Shravani Pawar (21CSE1033).



**SPECTRA:** Spectra is the official ECE Students Council of NIT Goa, founded in 2014. The club aims to bring all the ECE department students on a single platform where they can showcase their talents in various technical and cultural events organized by the club.

**CESCO:** The Civil Engineering Students Council (CESCO) was started in the year 2019 by the Civil Engineering students of NIT GOA. Started with the aim of providing exposure of various fieldwork and site operations to the students, the club has arranged various site visits to industries and important structures such as Zuari Bridge, Water treatment plant, new campus of NIT Goa etc.

**TESLA:** TESLA is NIT Goa's oldest official student association, formed on March 2, 2012, by the Department of Electrical and Electronics Engineering. The association hopes to guide students toward a brighter technical future and make them capable engineers through numerous training programs, workshops, field trips, and other activities.

**META:** Mechanical Engineering Technical Association(META), META is formed with the primary objective of exposing the aspiring mechanical engineers to the practical aspects and professional challenges for their sustainable growth. META provides a platform to showcase and sharpen the students talent through a variety of activities planned throughout the year.

**GDSC:** Google Developer Student Clubs (GDSC) is a program initiated by Google that aims to cultivate a community of student developers on university campuses worldwide. The program provides students with the resources, mentorship, and opportunities to learn and gain practical experience in various technology domains.

**Dance Club:** The dance club kicked off its vibrant season with an exciting introductory session that featured a logo reveal and opened registrations for new members. This event set the stage for a series of engaging workshops that highlighted the club's dedication to dance.

The first major workshop focused on traditional Garba and Dandiya, lasting 15 days and culminating in a performance at Umang 2023 in collaboration with the EBSB club. Building on this success, the club hosted an urban dance workshop that covered both theoretical and practical aspects of dance, helping participants understand formations and choreography





techniques. This momentum continued with a two-day Bollywood basics session, followed by an exhilarating dance battle that allowed participants to showcase their newly acquired skills.

Following these workshops, the dance club organized a flash mob, with practice sessions extending over two months,

providing ample opportunity for members to hone their skills. Most recently, in collaboration with the EBSB club, the dance club celebrated Janmashtami with a dynamic 30-minute skit and dance performance, continuing to blend cultural celebration with dance excellence.







### PHYSICAL EDUCATION AND SPORTS ACTIVITIES:

Sports help to develop the overall personality of the students by shaping physical, mental and social well-being. It helps in sharpening the ability to observe, analyse and judge in a spurt of a moment. Team spirit, cooperative working and coordination are the important qualities that can be learnt from team events. These are very essential in social and professional life to develop confident and fearless attitude.

The role of the Sports is to create the infrastructure and promote capacity building for broadbasing sports as well as for achieving excellence in Inter NIT Tournament and National competitive events. Keeping in view the growing demand for advanced infrastructure, equipment and scientific support, Sports has taken several initiatives and is providing the necessary assistance to sportsperson by way of training and equipment.

NITG is equipped with sports amenities for the students and staff and is active in developing Sports infrastructure for the benefit of the student community. Facilities are available for events such as cricket, football, volleyball, and athletic events. Indoor facilities for Table Tennis, Chess and Carroms are available at the Sports Activity Hall. Students regularly participate in both intramural and extramural competitions. The training equipment for sports and athletics events is available in the sports office.

### Activities of the Department:

The daily Physical Activity program has started for the students (men and women). The program starts with the morning activity at 6.30 AM consisting of warm up session followed by the different types of physical fitness variables oriented training. The session ends with lead up activities and warm down exercises. The program also included aerobic and yoga activities. Students have actively participated in the program.

The evening sports activities starts from 5.30 PM and end by 8.30 PM. The students actively participate in the following sports and games viz. Cricket, Football, Volleyball, Table tennis, Chess, Carroms etc. The sports events for the academic year are as follows

- 1. Fit India Program
- 2. International Day of Yoga
- 3. National Sports Day
- 4. Directors Cup
- 5. Intramural Competitions
- 6. Aerobic Classes for Women
- 7. Walking Club
- 8. Marathon and Walkathon



In addition, NIT Goa hosted #SnakeAlert: Vigilance, Safety, and Bite Prevention Program on April 5, 2024, at SAL Hall. Mr. Prakash Naik, Range Forest Officer from Goa Forest Department, shared valuable insights on Indian snakes, identification keys, myths, & demonstrated first aid for snake bites. Insititute has conducted "Awareness program on new criminal Laws - the "Bharatiya Nyaya Sanhita," the "Bharatiya Nagarik Suraksha Sanhita," and the "Bharatiya Sakshya Adhiniyam" has been conducted."







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### **Doctor of Philosophy Department of Computer Science and Engineering**



M RAMESH 19CSE3002



PAYAL SHARMA 18CSE3005

### **Doctor of Philosophy Department of Electrical and Electronics Engineering**







VINAYA CHANDRAKANT CHAVAN 19EEE3001

ROHIT KUMAR JAIN 19EEE3004

SWETHA K. T. 19EEE3005



JAYESHKUMAR PRIOLKAR 18EEE3004



MADHU G M 17EEE3004

## **Doctor of Philosophy Department of Electronics and Communication Engineering**



AYYAPPAN 17ECE3001



NAIK PARRIKAR VISHWARAJ SHRIKANT 18ECE3006



SAWANT NIDHI KALIDAS 19ECE3004



ANUPAMA S 18ECE3002

## **Doctor of Philosophy Department of Applied Sciences and Humanities and Social Sciences**



BAIJU P 17HS3001



SARAN SRIHARI SRIPADA PANDA 18HS3003

## Master of Technology in Computer Science and Engineering (CSE)



ANAGHA ANIL JADHAV 22CSE2002



BRUNDA SRI LAKSHMI K N 22CSE2004



HARSHIKA SARVESH MISHRA 22CSE2005



KONJETI MANJU SREE 22CSE2006



RAJNISH RAI 22CSE2007



SHUBHAM HARISHCHANDRA DARSHANE 22CSE2008



TAUHID NADIR DAREKAR 22CSE2009

### Master of Technology in Power Electronics and Power Systems (PEPS)

Master of Technology in VLSI



ANJAN KRISHNA A.R. 22EEE2001



K BIDYABATI DEVI 22EEE2002



REMYA M 22EEE2004



Y KAVYA 22EEE2005



BODULA RATNA SAGAR 22ECE2001



CHETAN SAHU 22ECE2002







KANDIVALASA RAVI TEJA 22ECE2005



MUSKAN METHI 22ECE2009



RYALI TEJA SRIRAM 22ECE2013



YAMANA ASHOK KUMAR 22ECE2018



KATHULA ANIL KUMAR 22ECE2006



NRIPENDRA KUMAR SINGH 22ECE2010



SHAIK RIZWAN 22ECE2014



MANDA YUKTHA 22ECE2007



ODDEPELLI RAKESH 22ECE2011



SHASHI KANT SAHU 22ECE2015



MUDDHAVARAM RAVI KUMAR NAIDU 22ECE2008



ROHIT BANERJEE 22ECE2012



SUCHARITA PRIYADARSHINI 22ECE2016

### **Bachelor of Technology in Civil Engineering (CVE)**



ALOKARANJAN **SWAIN** 20CVE1001



ATHARVA ANUP SINAI MOPKAR 20CVE1006

DIVYA PARESH

PRABHU

LAWANDE

20CVE1011

MEKALA NEHA

SREE

20CVE1018

PALLAPOLU

RAMUDU

20CVE1024



ANUDEEP **KASUKURTHI** 20CVE1002



**RUCHITHA** REDDY 20CVE1007



FARDEEN HASAN SHEIKH 20CVE1012



NAMAN CHAUDHARY 20CVE1020



KADAM ROSHAN SADANAND 20CVE1027



ANUJ MEENA 20CVE1003



DANDA HARIKA 20CVE1008



ARYA AMAN RAJENDRA 20CVE1004



DEEPTEJ GIRENDRA NAIK 20CVE1009



KAUSHIK ARUN BHAT 20CVE1015



NITESH KUMAR CHOOLA 20CVE1022



SHAIK MOHAMMED ARSHAD 20CVE1029



ASHUTOSH S MHALSEKAR 20CVE1005



DEVENDRA PATIDAR 20CVE1010



M PRAVEEN **KUMAR** 20CVE1017



PALASH ALIAS SHIVAJIRAO PRAKASH DESAI 20CVE1023



SHAIVI SARGAM CHANEKAR 20CVE1030





ISARAPHIL MANSURI 20CVE1013

NIMMALA

**SWEEKRUTH** 

20CVE1021

SAMEER

20CVE1028



20CVE1033

## **Bachelor of Technology in Computer Science and Engineering (CSE)**



ADITYA 20CSE1002



DONE BHANU PRASAD 20CSE1009



AMAN O KUSHWAHA 20CSE1003



ELRITZ GWYNFOR LUIS GONSALVES 20CSE1010



MANJUNATH NEELAPPA DODMANI 20CSE1016



ANN MARIYA ROY 20CSE1004



JAYENDRA PAL 20CSE1012



MILIND ALIAS HARSH MANOJ LAWANDE 20CSE1017



ARYAN SHRIVASTAV 20CSE1005



KANNARI VAISHNAVI 20CSE1013



NIRANJAN SOMNATH HEBLI 20CSE1019



BRYSON JESUS GRACIAS 20CSE1008



BARAI KARAN JAYENDRA 20CSE1014



NIRMITI VISHAL KALEKAR 20CSE1020



KHALID ANSARI 20CSE1015

60



OMKAR ANIL BORKER 20CSE1021



PRUTHVESH BOMI SHETKAR 20CSE1026

SANJANA

SANJAY

CHODANKAR

20CSE1031

SUMIT

20CSE1036

C maret

VIHEET MARUTI JALMI

20CSE1041



P ANUSHA 20CSE1022



ROHAN BHAUSAHEB BORSE 20CSE1027



SHAKSHI **CHOURASE** 20CSE1032



SURESH ASHOK RAJGURU



VADLAMUDI DIVYASRI 20CSE1042



PARIMI GAGAN KUMAR 20CSE1023



ROSHAN KUMAR SINGH 20CSE1028



SHOBHA RAMCHANDRA MASTI 20CSE1033



**SUYASH** MIRCHANDANI 20CSE1038



PRITIKA BARSHILIA 20CSE1024



S HARSHITH 20CSE1029



SHREYA MANIKSHA PARSEKAR 20CSE1034



VARADA VAMSHI **KRISHNA** 20CSE1039



PRIYA DILIP GAUDE 20CSE1025



SADAT ZUBIN AFTAB SHAH 20CSE1030



SOURADEEP PRADEEP BANERJEE 20CSE1035



VARUN PANDIYA 20CSE1040



## **Bachelor of Technology in Electrical and Electronics Engineering (EEE)**



ABHIJIT ASHOK KADALLI 20EEE1001



BHIMAVARAM GOWTHAM 20EEE1006



KAUSTUBH UMESH DESAI 20EEE1012



PIYUSH P SINGH 20EEE1019



RATHOD MEHULKUMAR PRATAP 20EEE1024



ADITYA M SREKAR 20EEE1002



CHINMAY SANJAY BAKHALE 20EEE1007



KISHOR YADAV 20EEE1013



PRANALI GANAPATI DESAI 20EEE1020



SAJJA SRI REKHA 20EEE1025



AKHIL CHANDRA NAYAK 20EEE1003



DARSHAN BILANA 20EEE1008



MONDU SHANMUKH RAJ 20EEE1014



PRAVEEN KUMAR SINGH 20EEE1021



SANIKOMMU RAKEESH REDDY 20EEE1026



ANJALI YADAV 20EEE1004



DHARAVATH PAVAN 20EEE1009



MD AMBER KHAN 20EEE1016



RAHUL JALAN 20EEE1022



SANKET BHAT 20EEE1027



ANKIT SINGH 20EEE1005



GUDIMALLAM PREETHI 20EEE1010



NITESH RAJ 20EEE1017



RAJ PRADIP NAIK DHULAPKAR 20EEE1023



SANKET SHYAMSUNDER SARMALKAR 20EEE1028



SANTOSH RAMNATH MOURYA 20EEE1029



VARAD AJIT RANE 20EEE1036



SHARUL SANTOSH **KUNKOLKAR** 20EEE1030



VIJAY GAUTAM 20EEE1037



SHEETAL JAIN 20EEE1031



AYUSH KUMAR SINGH 20EEE1038



UTKARSH KUMAR 20EEE1034



MILIND GAUNS 20EEE1039



VAISHNAVI **KSHATRIYA** 20EEE1035



PANCHAMI RAVI PAI 20EEE1040

## **Bachelor of Technology in Electronics and Communication Engineering** (ECE)



AARON XAVIER LOBO 20ECE1001

AMBESH ANAND

GAUNKER

20ECE1007



ABHAY MATHEWS BOBBY



ANJALI 20ECE1008



ABHIRAAJ VERMA 20ECE1003



ABHISHEK KUMAR 20ECE1004



AMAN TIWARI 20ECE1006



BHARATH B N 20ECE1011



DESHPANDE



AVNI SHARMA 20ECE1009



BANDARU NAVEEN KUMAR 20ECE1010





DEEP NILESH SHETYE 20ECE1012

JATIN KUMAR

20ECE1017



DEEPAK S 20ECE1013



DIPTIBEN KADU 20ECE1014



G SUHANA 20ECE1015



KSHEMA N 20ECE1020



HITHESH K S 20ECE1016



KUNAL PALIWAL 20ECE1021



MALOTHU SANJANA 20ECE1022



PATCHIGORLA PRASHANTH BABU 20ECE1027



SAHIL REDDY YARRAMALA 20ECE1032



KALLA MOHANA MOUNIKA 20ECE1018



MENTI ESWAR NRUSIMHA 20ECE1023



PEARL BIPIN PULICKAL 20ECE1028



SAMBHAV SANJIV PRABHU DESSAI 20ECE1033



KARAN

MAHADEV

CHAVAN

MODIT PURI 20ECE1024



PRAJEETA PRABHAKAR PALKAR 20ECE1029



SANJEET ATUL SHIRSAT 20ECE1034



MYDHAM SUMANTH 20ECE1025



PRATHAMESH PREMANAND SHANBHAG 20ECE1030



TALLAPANENI SANDEEP CHOWDARY 20ECE1035



NIKHITA V BANDI 20ECE1026



PRATHIPATI TEJA SIVA NARAYANA 20ECE1031



UTKARSH SANDE 20ECE1036

64



VIRENDRA SEHWAG 20ECE1038



YASH MUKESH RAMGARHIA 20ECE1039



TIRUVEEDI DEVISREE 20ECE1040



MANOBHAV

SACHAN

20ECE1041



KANIKE SAI DATTA 20ECE1042



BHAVIKA 20ECE1043

## **Bachelor of Technology in Mechanical Engineering (MCE)**



PORUMALLA CHANDRASEKHAR 19MCE1018



ABHITEJ TIWARI 20MCE1002



ASHUTOSH ASHISH VYAWAHARE 20MCE1004

JAYANTH KUMAR

M S

20MCE1011



ATHARVA SURESHKUMAR GAIKWAD 20MCE1005



JOHN JAMES 20MCE1012



NIRUPAMA KURRA 20MCE1021



DEVNATH ALOKKAN 20MCE1008



KALAVALAPALLI JAYANTH NARAYANA 20MCE1013



PAIPURU SUCHITRA 20MCE1022



GALI VENKATA SIDDARTHA ROYAL 20MCE1009



LEARISTON JOVI MORAIS 20MCE1016



20MCE1010



NAVEEN YESHWANT MUTHVADKAR 20MCE1018

NIKHIL SHARMA

20MCE1019



PARITOSH KUMAR SHUKLA 20MCE1024



RUTUJA RAMESH PATIL 20MCE1029



PRACHI 20MCE1025



SAIRAJ RAJESHWAR CHODANKAR 20MCE1030



PRADEEP 20MCE1026



TANU BHAGWANT NAIK KURADE 20MCE1031



PRASHANT KUMAR 20MCE1027



VIRAJ GOKULDAS GAONKAR 20MCE1032



PRIYESH SINGH 20MCE1028



VIRENDRA DHETARWAL 20MCE1033

Medalists



# **Gold Medalists of B.Tech Batch 2020-24**

## **Director's Gold Medal**



VADLAMUDI DIVYASRI 20CSE1042 Dept. of CSE CGPA: 9.98

## **Department Toppers Gold Medal**



KAUSHIK ARUN BHAT 20CVE1015 Dept. of Civil CGPA: 9.56



TIRUVEEDI DEVISREE 20ECE1040 Dept. of ECE CGPA: 9.81



VADLAMUDI DIVYASRI 20CSE1042 Dept. of CSE CGPA: 9.98



PRACHI 20MCE1025 Dept. of Mechanical CGPA: 9.16



PANCHAMI RAVI PAI 20EEE1040 Dept. of EEE CGPA: 8.99

## Gold Medalists of M.Tech Batch 2022-2024

## **Director's Gold Medal**



KONJETI MANJU SREE 22CSE2006 Dept. of CSE CGPA: 9.42

# **Department Toppers Gold Medal**



KONJETI MANJU SREE 22CSE2006 Dept. of CSE CGPA: 9.42



ANJAN KRISHNA A.R. 22EEE2001 Dept. of PEPS CGPA: 8.86



RYALI TEJA SRIRAM 22ECE2013 Dept. of VLSI CGPA: 9.36

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Mr. Guru Keshav Naik

Mr. Sankeith Sulbha Devidas

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"We, the graduates of the National Institute of Technology Goa Hereby pledge, that we shall, In thought, word and deed Endeavour to be scrupulously honest In the discharge of our duties as Engineers, Technologists, Scientists and Executives, That in all circumstances, We shall uphold the dignity And integrity of our profession And the honour of our Institute and the Nation And that we shall devote all our energies To promote the unity and secular ideal of our Country And utilise our knowledge of Science, Engineering, Technology and Administration In the service of our Motherland And the humanity eventually."


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