

XVI

*Convocation 2018*

१६वाँ वार्षिक दीक्षांत समारोह



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला  
**National Institute of Technology, Rourkela**







**NATIONAL INSTITUTE OF TECHNOLOGY  
ROURKELA**

**XVI  
CONVOCATION**

**19 January 2019**



*Chief Guest*

**Dr. Kumar Mangalam Birla**  
Chairman, Aditya Birla Group



**Prof. Animesh Biswas**  
Director, NIT Rourkela

**Dr. Sanrupt B. Misra**  
Chairman, Board of Governors



# XVI CONVOCATION

19 January 2019

## *Programme*

- ❑ 10.00 a.m. : Academic Procession Arrives  
(All present may kindly rise and remain standing till the dignitaries on the dais take their seats.)
- ❑ 10.02 a.m. : Invocation
- ❑ 10.05 a.m. : Convocation declared open  
by the Chairperson, Board of Governors
- ❑ 10.15 a.m. : Welcome address and presentation of  
report by the Director
- ❑ 10.20 a.m. : Address by the Chairperson,  
Board of Governors
- ❑ 10.35 a.m. : Convocation address by the Chief Guest
- ❑ 11.00 a.m. : Award of degrees
- ❑ 12.50 p.m. : Presentation of medals
- ❑ 13.10 p.m. : Taking of pledge by the degree recipients
- ❑ 13.25 p.m. : Convocation declared closed  
by the Chairperson, Board of Governors
- ❑ 13.27 p.m. : National Anthem  
(All present may kindly rise.)
- ❑ 13.30 p.m. : Academic procession leaves  
(All present may kindly rise and remain standing till the last senator leaves the hall)
- ❑ 13.35 p.m. : Lunch

**Venue : NCC Ground, NIT Rourkela**



## *The Chief Guest*

**Dr. Kumar Mangalam Birla**

**Chairman Aditya Birla Group**

Mr. Kumar Mangalam Birla is popularly known to all of us as the Chairman of the Aditya Birla Group, the US \$44 Billion, Global Indian Conglomerate. He has anchored the Group to the zenith of its success with operations in 36 countries across 6 continents with ~50% of its revenues flowing from its overseas operations. With the possession of 36 companies in 20 years Mr. Kumar Mangalam Birla has become the icon of the Global Business Group.

This eminent figure has many layers to his life and work which are coterminous with and complementary to each other. Mr. Birla was born in Kolkata and brought up in Mumbai, graduated from H.R. College of Commerce & Economics, University of Mumbai and has an MBA from London Business School. Before he went abroad for his MBA, he became a chartered accountant from the Institute of Chartered Accountants of India. He took over the helms of a USD 1.6 billion empire at the tender age of 28 and yet led the Group like a seasoned leader. He was a Director on the Central Board of Directors of the Reserve Bank of India. He was Chairman of the Advisory Committee constituted by the Ministry of Company Affairs and also served on The Prime Minister of India's Advisory Council on Trade and Industry.

Mr. K. M. Birla has also played a crucial role in the realm of education as the patron and steward of academic institutions. He has recognizable contribution to the growth and development of education across world by his service of different roles, viz., the Chancellor Birla Institute of Technology and Science (BITS), Chairman of IIT Delhi, Chairman of IIM Ahmedabad, Board Member London Business School's Asia Pacific Advisory Board, Honorary Fellow, London Business School, and Chairman, Rhodes India Scholarship Committee for Oxford University.

Apart from his commitment to business, his service to society and its welfare is equally legendary. In India, the Aditya Birla Group is engaged in 5,000 villages, reaching out to 7.5 million people annually and making a difference to their lives through meticulously conceived projects such as 56 schools and 22 hospitals focusing on health care, education, sustainable livelihood, infrastructure and social causes.



# Chief Guest's Speech

**Dr. Kumar Mangalam Birla**

**Chairman, Aditya Birla Group**

**Dr. Santrupt Misra, Chairman of the Governing Board, Director, Prof. Animesh Biswas, Registrar, Prof. SK Patel, proud parents, Distinguished Alumni, Students, Ladies and Gentlemen,**

Good morning! It is indeed an honour for me to be here at the convocation ceremony at NIT-Rourkela.

As I see so many young faces, I can see the sense of relief and satisfaction and a little bit of nervousness in your eyes. I am sure it hasn't been easy. The graduating class of 2019, today as you graduate, I am certain that many of you are wrestling with mixed feelings - of excitement and uncertainty. It is all very natural. But as you walk out of the campus gates to face the world, you must walk out with supreme confidence. Confidence not just because you have got a marquee degree from a premier institution like NIT-Rourkela. But because you are going to be the force of change for a rising India.

The Aditya Birla Group as you may know has operations in 35 countries across six continents. So, with some degree of authority I can say - India's Time is NOW. We could well be a 10 trillion-dollar economy by 2030. To think of it, we became a trillion-dollar economy only in 2007. And then we doubled our size in just seven years. That's the rate of growth we have seen over the last decade and this will only accelerate. All of you and many like you in your generation are the ones who are going to make this happen. India's working population is expected to total 2/3rds of our total population by 2025. Imagine the opportunity that this presents for the country and for each one of you. Don't look at yourself as just another engineering graduate. Look at yourself as a force for change.

When I look at millennials around me, I realise that this a generation like no other. The clarity of thought and constancy of purpose that I see in millennials is unmatched. And that is why I remain an unabashed optimist on the future of our country. India awaits your leadership.

Even as I strike this optimistic note upfront, I must point out that the disruptive hand of technology will make this journey exciting as well as challenging. There will certainly not be a linear route to progress. The rules of the game are changing rapidly. So, the playbook from the past simply won't make the cut now. People often say '**Disruption is the new normal**', I would say- '**No normal is the new normal**'. As you step into the workforce, you need to be cognizant of this reality and embrace every opportunity that comes your way. As Jack Welch famously said- "**Control your own destiny or someone else will**".

Even as we acknowledge the disruptive power of technology, I would equally like to stress that Technology has also led to a monumental collapse in the asymmetry of information. From governments to corporations and communities to individuals; everyone is dealing with this new normal caused by the collapse in the asymmetry of information. I believe this is for the good as it will lead to more transparency and present greater entrepreneurial opportunities for youngsters like you.

**The desire to place big bets and have their skin in the game is something I see in many young people today.** That perhaps explains the explosion that we have seen in the entrepreneurial ecosystem in India. **We already pride ourselves in having the 3rd largest start-up ecosystem in the world and I have no doubt that the culture of entrepreneurship is a significant catalyst that will accelerate our progress.** Having entrepreneurial roots myself, it gives me great satisfaction to see so many engineers and management graduates set out to be entrepreneurs. I am sure there are many among you with these ambitions and I would encourage you take the plunge.

Capital and resources are no longer excuses that can kill a good idea. Being risk averse, therefore, should not be an option. Had my father been risk averse as an entrepreneur we would not have been able to morph an *iconic Indian company to an iconic global conglomerate*. **He set his sights abroad at a time when it was unthinkable to do so, and in the process proved that Indian Industry had come of age. So dream big and pursue those dreams relentlessly. Just having a powerful idea though is not enough.**

**You need to have, what I call the 5Ps – Purpose, A Plan, Perspiration,**

**PASSION and Persistence. Your idea needs to be backed by a well-crafted execution strategy. You need to pressure-test the strategy to ensure it is a winning one. You won't get every strategy right, the key is to learn from your mistakes and make necessary 'pivots' to get to your goal. I know it is fancy to chase valuations these days, but I am slightly old-school in my thought so I would urge you to focus equally on building world class products and services that solve real customer needs. The valuations will then take care of themselves.** So, my advice to young entrepreneurs is that whilst it is often needed to chase growth, you must not forget the *path to profitability*.

**"Entrepreneurs are born. Executives are made. We need them both", remarked my father in the 90's. And I think that is so true.** So, for those of you who are set to take up a job right away, I would like to welcome you to the corporate world. The nature of the workplace though has changed dramatically over the last few years. Organisations today are becoming increasingly entrepreneurial in their DNA to allow bright young talent to flourish. However, I do believe that the companies that will stand the test of time are the ones that are tied to a strong set of values even as they keep reinventing themselves. To have a meaningful stint in any company, I would advise you to align yourselves with the organisation's values and purpose. These should ideally guide your decisions and actions.

The changing workplace also necessitates team players. Being a team player is no longer a desirable quality, it is a mandatory quality. You have come this far on the back of your individual brilliance, but for you to get ahead in your career, you need to be able to work in teams. Teams that are often large, complex, and with very ambitious people. It's not as easy to be a team player, as it may seem. For me, a team player is one, who is willing to put the team or the organisation's interest ahead of their own. And a great workplace is one, that has strong, cohesive teams, that are all aligned to a common purpose. At the Aditya Birla Group, we pride ourselves, in being such a workplace.

I am sure not all of you have given in to the lure of a corporate career just yet. Some of you may be choosing to pursue higher studies. That is also a good choice. The balance of power between specialists and generalists keeps oscillating with time. Now is the time for ultra-specialists. It's imperative that you find a niche and then



master it. Being a good computer engineer alone isn't good enough. You need to be an expert in say machine learning. Even in machine learning you perhaps need to be an expert in Neural networks. The point I am trying to make is that the case for specialisation always existed, what has changed is that the definition of specialisation has narrowed. Being a generalist doesn't hold much currency in today's day and age.

It doesn't matter whether you are setting out to be an entrepreneur or whether you are taking up a job or pursuing further education or research. The one mind-set I would urge each one of you to develop is a problem solving mind-set. As engineers many of you are perhaps trained to be problem solvers. A skill that I believe will hold you in good stead no matter what you choose to do... As a nation, It's not good enough to produce thousands of graduates, we need to produce thousands of problem solvers. Being a problem solver doesn't just mean you go looking out for problems, it means you go offering solutions. More often than not, complex problems have simple solutions, all it requires is the right mindset.

That brings me to my larger point on the learning curve. I know it's a bit clichéd to say – “never stop learning”. But I believe these words have never had more relevance than now. Thanks to cut-throat competition and the ferocious pace of change, the learning curve has got steeper. Look around, and you will realise that the world is changing at such a rapid pace, and the only way to stay relevant is to keep learning and upskilling yourself.

It doesn't matter whether you are an engineering graduate, a management trainee or a high profile CEO. In fact, I would argue that a CEO has just as much to learn, as the stakes are higher. Even I look for learning opportunities in my daily routine. It could be from a conversation with a customer or a colleague or even a friend. Just 10 days ago, I was in Ahmedabad chairing the board meeting of IIM-A. After the board meeting was over I asked the Director if I could attend a couple of classes in the evening. **After all, even the father of our Nation - Mahatma Gandhi, once famously said: " Live as if you were to die tomorrow, learn as if you were to live forever."**

What is equally important is - giving back. To individuals, institutions, communities and societies at large. It could be in whatever form. Never lose sight of the **beginning** and remain grateful to those who have partnered you in your path to progress. I call it “**an attitude of gratitude**” . It could be the professor who counselled you when you had a breakdown after a poor exam, or the sibling who stayed up all night to give you company as you were preparing for your entrance exam, or for that matter this institution itself that has presented you with so many opportunities to learn and grow. Often, a ‘**thank you**’ is what it takes, sometimes it takes a little more than that... But make the effort, trust me it's worth it.

And lastly, a piece of advice that is simple, and yet I can't stress its importance enough. Stay happy! Make an effort to be happy. A prestigious degree, a fancy job, a marquee promotion, a fat pay cheque count for little if you are not happy. Very often, in our quest to chase milestones, we miss out on the little things in life. Enjoy the little things in life. So, as you graduate today, along with your success, I also wish you a lot of happiness.

God bless you!





## ***Chairperson, XVI Convocation***

**Dr. Santrupt B. Misra**

**Chairperson, BOG, NIT Rourkela &  
CEO, Carbon Black Business & Director, Group H.R.,  
Aditya Birla Management Corporation Pvt. Ltd., Mumbai**

Dr. Santrupt Misra is CEO, Carbon Black Business and Director, Group Human Resources for the Aditya Birla Group.

Dr. Misra has worked at Board level for over 17 years now as Non-Executive Director and Executive Director in publicly listed companies, unlisted companies, JVs and not for Profit Organizations both in India and overseas. He is a Director in several companies of the Aditya Birla Group and other professional bodies. He is an Independent Director on the Board of the Oil and Natural Gas Commission Ltd., a Government of India enterprise, and the Chairperson of the Board of Governors of the National Institute of Technology, Rourkela. He is also on other professional bodies such as the Managing Committee of the Aston Business School Advisory Board (UK); Association of Executive Search Consultants (AESC) U.S.A., and is on the Board of the Xavier's Institute of Management Bhubaneswar. He also was a member of the SHRM Certification Commission, USA.

An HR professional and a business leader, Dr. Misra has over 30 years of experience in Business Operations and Strategy, Organization Development, Transformation and Change Management, Business Consulting and HR Management.

He holds two postgraduate degrees: in Political Science and the other in Personnel Management & Industrial Relations. He has two PhDs, from India and UK, in Public Administration and Industrial Relations respectively and an honorary D.Sc degree from Aston University, UK. He is a Fellow of the National Academy of Human Resources (NAHR), USA; Hon. Fellow of the Coaching Federation of India; in addition, he is also an Eisenhower Fellow, an Aston Business School Fellow, an AIMA Fellow and a Commonwealth Scholar.

He has been awarded several professional recognitions for his contribution to Business and Human Resources over the past decades.



# *Chairperson's Address*

**Dr. Santrupt B. Misra**

**Chairperson, BOG, NIT Rourkela &  
CEO, Carbon Black Business & Director, Group H.R.,  
Aditya Birla Management Corporation Pvt. Ltd., Mumbai**

Our Chief Guest, Mr. Kumar Mangalam Birla, Director Prof Biswas; Fellow Board Members; Registrar Prof Patel; Convocation in Charge Prof. Sahu; faculty; staff, graduating students; parents; alumni; ladies, and gentlemen!

I'm delighted to be in your midst yet again. A Convocation is an event of true celebration, recognition, and inspiration. Graduating students, their family and friends have celebration; faculty and staff applaud as certificates and medals are presented in recognition. But most importantly, a Convocation usually brings everybody face to face with a great source of inspiration who always is the Chief Guest! Today, we are fortunate to have with us a celebrated global business leader, a philanthropist, a youth icon and above all, an outstanding human being as our Chief Guest. You have read about his career and achievements on your Convocation website and otherwise.

Personally for me, it has been my life's greatest honour and pleasure to work under him, with him, and for him. I have personally learnt and grown in the close to two and a half decades of my association with him. He embodies everything that any of us can imagine as Leadership- the A, the B and the C of Leadership- Accomplishment, Boldness and Charisma. I can exhaust all the alphabets and may be even half the dictionary describing his leadership qualities. But what matters most is to say that please join me in warmly welcoming, the humble, the gentle and the invaluable Chief Guest Mr. Kumar Mangalam Birla!

While today is about the graduating students and their accomplishments, it is also a moment to speak about the Institution that has brought us together and the kind of institution that all of us are building here. As your Chairman, it gives me comfort and pleasure to be able to report that the institute continues on its path of creating superior value for the society through new initiatives and continuous innovation. You may have gotten glimpses of it from the Annual Report just presented. That is not to say that we do not have challenges or aspects where we could do far better! In the Board of Governors, we are conscious of those opportunity areas.

Last year, at this very function, I had said governance is not easy. I perhaps forgot to remind all of us that better governance delivers better results and significant brand value. The capital markets have repeatedly taught this lesson to the corporate world. Your Board of Governors are very mindful of this and have attempted to bring in transparency, adherence to policy frameworks, objectivity and other relevant guiding principles.



However, the year gone by has shown me, that governance of this fine institution needs more than a set of well-meaning governors, meeting once every 3-4 months! What we need is sharper alignment between all stakeholders on the governance principles and adherence to those principles in our day to day working at the Institute, especially since 90% of governance is experienced through our everyday interaction.

We have asked tough questions in search of higher standards causing discomfort in some quarters. The huge burden of expectations on the Board from all the stakeholders has led us to sometimes muse, “Hum Aapke Hain Kaun?”. Yet when students, staff, and faculty have reached out to seek relief and redress, the temptation has been to say “Main Hoon Na”. In between the two emotions, the Board has focused on both unwinding the problems of the past and building a new future.

I must acknowledge the role of our Alumni and their Association in crafting a vision for the future of the institute. The Vision includes far reaching aspiration in areas such as Cutting Edge Research; World Class Faculty Pool; 21<sup>st</sup> Century Pedagogy; Industry Engagement and Entrepreneur Eco-System; Alumni Engagement & Resource Generation; Brand and Image Revitalization; and Execution Excellence. I was personally inspired to see their committed work in San Francisco and in New Delhi. The Alumni have been collaborating with their colleagues in the institute to give the Vision sharper shape and faster traction. They are bringing their global experience, personal time and some financial resources to support this endeavor. Its success would depend on our mindset to embrace the Alumni as our own, and our skill to leverage what they can offer. On behalf of the Board of Governors, I thank the Alumni for this effort and compliment the Alumni and Faculty for their spirit of collaboration. The Board of Governors is fully supportive of all such constructive initiatives meant for institutional rejuvenation.

This vision when well executed can have a great transformational effect. However, change in and by itself is insufficient. The change must happen fast enough. Today, the buzzword at the work place is agile. Organizations are creating entire suborganizations based on the principles of agile working – quick turnaround, fast failure, high individual accountability, and more. Borrowing a page from the book of agile, we too as an educational institution, must rapidly create new choices and experiences for our students. I believe we often overlook the experiential learning value of education. The experiences such as doing assignments; the deadlines for submission; receiving grades and the intellectual integrity expected in research are nothing but indirect preparations for work life where one experiences performance appraisals, project deadlines, adherence to values of the organization and other such cannons of organized working. Our internal governance processes too attitudinally prepare students for their future professional lives. Thus, the Board of Governors always uphold these principles.

As you all know, biodiversity is an important topic in the realm of sustainability. There exists a balance in natural systems which ensure overall systemic health and well being. The key to this balance is to ensure that no single party – neither prey nor predator are over-represented. Similarly, in our endeavor to build the institution for the future, we need to find systemic balance between competing forces such as different stakeholder views and needs; preservation of the old and simultaneously creating the new, play by the rule

book while seeking opportunity for innovation and finally, personal ambition versus for the greater good. Civilizations, at their zenith have always been melting pots of legacy, ideas, innovation, and discovery. Your Board is conscious of its responsibility to preserve such a delicate balance not just in the interest of stakeholders but to ensure and achieve orderly development!

An institution with the kind of history and success that NIT-R has had, makes it not just another institution, it is an iconic brand. Like any brand, people associate with it a certain brand value, expect it to fulfil the brand promise and credibility is an implicit property. It is the sacred duty of anyone who is a part of this brand, uses this brand or benefits from this brand to the brand to always be mindful of the impact of their actions on the brand reputation and salience. We may therefore, forgive many failures and mistakes genuinely made but not those ones that damage the brand because of narrowly focused interests. A significant governance role of the board is to protect the hard earned value of the brand and do everything in its powers to keep it strong and refreshed.

Let me take this opportunity to thank my fellow board members for their leadership and wisdom in helping me to navigate our institution. I thank the Director, Registrar, the Deans, the Faculty, the staff – be they in support, service or administration functions for their attention and focus in building the institute. I also thank the MHRD, the Government of Odisha, the local administration, our donors and supporters, the press, the well-wishers and all others for your affection and generosity towards NIT R.

Before I sign off, let me turn to the graduating students. Nothing will make us happier than to see you flourish in whatever it is you decide to do. You have received more than just a degree from this institute- you formed your world view; you forged significant relationships and perhaps have found your life's calling. Cherish and value each of those. Years later if you get the chance to revisit, your institute will be eagerly waiting to welcome you, to hear your stories of trials, trepidation and ultimate triumph. The incredible value of a campus centric residential institution lies in the bonds that we build and the memories that we create. You all are soon to be the members of the NIT-R community which is globally spread out– leverage that immutable identity and bond. You have all the technology to be a virtual community and so please continue to build on the relationships forged here.

My heartiest congratulations to all graduating students, their parents and families! Congratulations to the winners of distinctions, prizes and medals! Thank you again Mr Birla for so graciously accepting our invitation to be here. Wish you all the very best in life and God bless you all!



# Director's Report

विद्या ददाति विनयं, विनयाद् याति पात्रताम्।  
पात्रत्वाद् धनमाप्नोति, धनाद् धर्मं ततः सुखम्।।

**Vidya Dadaati Vinayam, Vinayad Yaati Patratam,  
Patratwad Dhanamaapnoti, Dhanad Dharmam Tatah Sukham.**

**Honourable Chief Guest of today's function Dr. Kumar Mangalam Birla; Honourable Chairperson, Board of Governors, Dr Santrupt B. Misra; Members of Board of Governors; Members of the Senate; Deans; Heads of the Departments, Centres and TSUs; Faculty Colleagues and Staff of this Institute; Distinguished Guests; Recipients of Degrees and Awards; Nominees of Electronic and Print Media; Alumni; Students; Ladies and Gentlemen:**

On behalf of the Senate, National Institute of Technology, Rourkela, and on my own behalf, I consider it an honour to welcome you all to the Sixteenth Convocation of our Institute. Ladies and gentlemen, I proudly mention before you that in this Convocation, we are conferring the much-valued degrees of NIT Rourkela on 585 B. Tech., 22 B. Arch., 135 Dual Degree (B. Tech. and M. Tech.), 75 Integrated M.Sc. (5 years), 417 M. Tech, 126 M.Sc., 5 MA, 38 MBA, 11 M. Tech. (by Research) and 126 Ph.D. students. I extend my heartiest congratulations to all the Graduands!

For the record, we may note that the total number of Graduands in this Convocation is 1540 which surpasses the previous convocation by 120. We may also note that after being declared an Institute of national importance in 2007, NIT Rourkela has produced 9998 engineers, scientists, masters, and graduates in addition to 613 PhDs.

Ladies and gentlemen, in 1961, our Institute (then called the Regional Engineering College Rourkela) started with only three under-graduate programmes in the disciplines of Mechanical, Electrical, and Civil Engineering. Over the years it gradually evolved. I am proud to say that today NIT Rourkela offers B.Tech courses in 14 disciplines across 12 departments, M.Tech degrees in 31 specializations in 12 departments, M.Tech dual degree programmes in 14 specializations across 9 departments, Integrated Master of Science programmes in Chemistry, Physics, Mathematics, and Life Science and Master of Science programmes in Chemistry, Physics, Mathematics, Life Science, Applied Geology and Atmospheric Science and Master of Arts in Development Studies offered by the Department of Humanities & Social Sciences, Bachelor of Architecture by the Department of Planning and Architecture and MBA degree with specializations in Finance, Marketing and Human Resources by the School of Management.

To our great fortune that an eminent person like Dr. Kumar Mangalam Birla is with us today. On behalf of NIT Rourkela, I record my appreciation to Dr. Birla and to our beloved Chairperson for making this happen. Convocation is a very special day for all our graduating students. Ladies and gentlemen, I am sure the presence of the distinguished persons among us will motivate our young graduates to work hard and take the Institute to new heights.

As the curtain rises on yet another Convocation, today's ceremony becomes the most opportune moment to reflect upon the accomplishments, events and activities that unfolded in our Institute during the past one year. Before I present the highlights of our activities during the past one year, let me present to you a few special thoughts that have been the guiding principles on our path of leading this Institute to an International level. Our nation has initiated the massive Make in India programme, and ambitious programmes at national level have

been taken up towards economic and technological reforms. We are making sincere efforts for increasing our Internal Resource Generation (IRG) through consultancy projects, industry interaction, centralized instrumentation facility and many such activities. At NIT Rourkela, our effort has always been to be a visible part of this nation-building process. Our Vision which is to be realized in the near future is “to become an internationally acclaimed institution of higher learning that serves as a source of knowledge and expertise for the society and be a preferred destination for undergraduate and graduate studies.” And our Mission is “to advance and spread knowledge in the areas of science and technology leading to creation of wealth and welfare of humanity.” The vision and mission have been supported by well-articulated guiding principles which lay emphasis on affirmative action towards achieving an all-India character of faculty, staff and student population, challenging academic standards, to the creation of wealth and research leading to welfare of humanity, a simple and organized personnel structure, and a transparent and decentralized administration. The institute has also given itself an ethics policy, a quality policy and a transparency policy which reflect its determination to give its constituents a truly participatory administration. Now, ladies and gentlemen, let me present a brief report on our activities over the past one year that have contributed to the growth of our institute in a holistic manner.

I am happy to announce that our institute has been ranked among the top institutions nationally and internationally. NIT Rourkela has been ranked at 215<sup>th</sup> in QS Asia University Ranking, 2019. It has been placed at 27<sup>th</sup> position in QS Indian University Ranking 2019. We have been ranked in 121<sup>st</sup> position in QS BRICS category, 2019. In Times Higher Education, NIT Rourkela figures in the group of 601-800 in World University Ranking 2019 (Overall). In the recent NIRF ranking awarded by MHRD, NIT Rourkela is placed at 15<sup>th</sup> position in Engineering Category and 42<sup>nd</sup> position in overall category against last year's overall position at 46<sup>th</sup>. As of accreditation of different academic programmes, all our eligible undergraduate programmes have been accredited by NBA. Furthermore, majority of masters programs have also been accredited. Recently our institute has also been accredited with A Grade by NAAC.

It is important to note that NIT Rourkela's research and academic activities are widely accepted among its peer institutions nationally and globally. This academic year our research books and text books have been published by Springer Nature Singapore, Elsevier Academic Press Cambridge, and CRC Press, Taylor & Francis Group. Many other international publishers such as CRC, Macmillan and others have given contract to our faculty members and have scheduled the publication of their research monographs and books. We record here that NIT Rourkela's research visibility is appreciable with respect to scholarly output, i.e., 8059 publications with 80 h-index as per the Scopus database and 3870 publications with 68 h-index as per Web of Science database. This is just part of the research contribution of NIT Rourkela, and many book chapters, acclaimed conference papers and numerous articles of our faculty scholars have been well appreciated on various academic and media platforms.

Ladies and gentlemen, the mental and psychological health and overall development of students and staff remain central to the making of a vibrant campus. I am happy to announce that in the last year we had started the much-awaited counselling service to take care of students' emotional, academic and financial needs. Student Counselling Programme has metamorphosed into an active student guidance medium. Programmes such as remedial classes, motivational workshops, counselling sessions and student connection activities are enhancing the student performance to a great extent. We have started the centralized instrumentation facility that would facilitate better usage of high-end instruments and equipment by our own students and also outsiders such as other institutes and industries. This would facilitate enhancing our perception and increasing IGR. We have instituted the best teacher award, the life-time achievement award, and the best non-academic staff award so that the best talents of our campus are rewarded properly and this will ensure a growing environment at NIT Rourkela. We also have started undertaking research initiatives in organic farming. We have completed a fresh round of faculty interview after a long gap and have achieved milestones in recruiting candidates from special categories; two new drives for faculty recruitments are in pipeline; in addition, we have conducted interviews for the position of registrar and initiated consequential work on recruiting non-faculty positions including assistant registrars, medical practitioners, in addition to the much-awaited DPC.



In today's time, computerization is indispensable for any organization to be productive and efficient. With this mission in mind, the Office Automation Cell (OAC) was instituted in 2008 as a Technical Service Unit (TSU). The objective was simple: to automate various processes of NIT Rourkela, module by module, one tiny step at a time. I am happy to share with you that today it is a full-fledged ERP, which is wholly conceptualized, developed, and maintained in-house by our own employees, and that facilitates the automation of academic, co-academic, non-academic processes of our Institute. With the experience and expertise gained in the last decade, we are now ready and looking forward to extending our service to other Institutes and Universities and generate revenues from the same. In addition, since safety and security of the campus populace has been one of our prime concerns, I am happy to share with you that we have strengthened our security system with the deployment of ip based surveillance cameras in our campus. The first phase of the work is completed and the second phase is underway.

As a part of the Institute's progressive strides in the teaching-learning process, the A.N. Khosla Centre for Technology Enabled Learning (ANKCTEL) has started functioning. This is the beginning of using the potential of Information and Communication Technology (ICT) in the Teaching Learning (T-L) process. The objective of the centre (ANKCTEL) is to create e-content by recording the classroom lectures of the faculty members. Till now we have already recorded teaching lectures amounting to more than 1000 hours, participated by 30 faculty members covering 38 subjects. All the e-contents created till now have been uploaded in our Institute website for the reference of the students / research scholars / faculty members. Several GIAN (Global Initiative for Academic Networks) courses have been recorded for outreaching activities. We have conducted few workshops under T10KT project of MHRD, Govt. of India, in collaboration with IIT Bombay. Our students have successfully taken up few online courses of Indian Institute of Remote Sensing (IIRS) with the help of the centre. The parallel aims are the use of ICT for e-content generation and distribution, and encouraging creativity and innovation in teaching, instructional planning and delivery. The Centre will provide exposure to the teaching community to the different pedagogical elements like active learning processes, flipped classrooms, MOOCs, Blended MOOCs and techniques like think-pair-share, etc. This is a small initiative from NIT Rourkela to sensitize the greater academic community of our country in the area of Technology Enabled Learning and to explore the potential of ICT in technical education.

The Institute has received from the Government of Odisha a generous allocation of one acre property in a prime location to set up the NIT Rourkela Outreach Centre at Bhubaneswar. The construction of boundary wall has been completed. The Outreach Centre, when ready, will facilitate faculty development through courses offered in both contact and distance modes and interaction with industry through continuing education consultancy and technical discussions. There will also be provisions for placement procedures and promotion of business ventures.

Our campus has become a preferred destination for international students from both SAARC and non-SAARC countries through exchange programmes administered by DASA, ICCR and MEA. Currently there are about 200-odd international students enrolled in our Institute in different departments. In addition to the above student exchange programmes, the Institute has entered into both bilateral and multilateral agreements with universities abroad for research collaboration. A large number of faculty members have visited foreign universities for pursuing collaborative research through international cooperation programmes during the current academic year.

Innovation and incubation related to engineering and technology have been internationally acclaimed as a vital component for job creation resulting in economic development. NIT Rourkela's Centre for Technology Innovation and Industry Relations (TIIR) is an endeavour for inculcating the enthusiasm among Incubates to tap innovations and technologies for enterprise creation. It offers expertise and infrastructure to new enterprises that require an enabling environment like TBI to enhance the prospects of their success. In addition to incubation facilitates, TIIR supports industrial houses, specifically local industries to set up their R&D centres on our

campus. NIT Rourkela as per recommendation of DST has set up a Section-8, Not-for-Profit Company “Foundation for Technology Business Incubation (FTBI)” for supporting entrepreneurship and innovation which is housed in TIIR. It is being supported by National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology (DST), Government of India, Ministry of Micro, Small & Medium Enterprises (M/o MSME), Department of Planning and Convergence, Government of Odisha, GAIL and NITRAA to promote the spirit of entrepreneurship. It is also a recognized incubator under Startup India and Startup Odisha. NIT Rourkela is a recognized Nodal Agency under Startup Odisha. At present it has housed 23 start-up companies and 26 plus teams in its pre-incubation, and most of them are either alumni or our present students involved in vast range of activities from innovation, creation of green tech solutions, manufacturing to engineering to e-commerce businesses. There are already few successful start-ups such as Phoenix Robotics, Estinno Energy, Penny India, Ovotees, Awalk, SLR, Bookfount, etc., most of which have brought laurels to the institute and have got recognition from Startup Odisha and Department of Industrial Policy & Promotion (DIPP), Government of India. The preincubatee teams are also having very potential and innovative ideas. FTBI and TIIR have received grants from multiple government departments such as NSTEDB, MSME, GAIL, Startup Odisha, DST to provide funding support for student and faculty entrepreneurship.

To promote the spirit of entrepreneurship and innovation, FTBI timely organizes the ideation meetings, Incubatee Induction rounds, visits by Industry experts and Alumni, sessions on legal compliances to start an entrepreneurial venture etc. NITR hosted the Boot camp of the Startup India Yatra Odisha on the 7th of February 2018 in TIIR.

To further the initiative of inclusive innovation and to celebrate the culture of innovation in the campus and beyond, a two-day mega event in the name of “Innovation Carnival” was organized during 10-11 November 2018 in FTBI, TIIR. The inaugural ceremony witnessed Shri Jual Oram, Honourable Minister of Tribal Affairs as the Chief Guest, and Smt. Rashmita Panda, CEO Smart-City, Rourkela along with Shri Bibhu Mohapatra, a New York-based fashion designer and costume designer as Guest of Honour. The bespoke event brought massive participation for school level innovative exhibitions, Industrial exhibition from Quality Circle Forums of India, Panel Discussions from Eminent Entrepreneurs, Workshop by Start-Up India, Start-up hunt Challenge and innovations in the field of food industry, socio-cultural and rural entrepreneurship. The national level event aimed to provide a platform for budding entrepreneurs to realize their start-up dream and motivate them to translate their innovative thinking into developing impactful ventures that would contribute to creation of emerging technologies to improve the way the world works and lives.

In this year 12 Institute seminars involving distinguished faculty and scientists have been conducted. Eminent scientist / engineers from academia and industry including overseas personalities from university of Lisbon, university of Kansas, Loughborough University, etc., have been invited for Institute seminar.

The faculty members of our departments have brought laurel to the Institute and have been instrumental taking the name of the Institute to greater heights. It has also strengthened its Machine Intelligence and Bio-Motion lab. The Department of Mathematics, for instance, has conducted the Eighth National Conference on Wave Mechanics and Vibrations in addition to conducting the National Conference on Recent Advances in Mathematics and its Applications. The Department of Mining Engineering has conducted a GIAN course on Process Safety Engineering. One of the faculty members of the Department has been nominated by the Dept. of Forest and Environment, Govt. of Odisha, as a member of the Technical Committee constituted to issue no increase in pollution load certificate for change in plant configuration and product mix for any project, in pursuance of the notifications of Ministry of Environment, Forest and Climate Change (MoEF&CC), Govt. of India. The Department of Industrial Design has procured 6-axis motorman industrial robotic arm and Accufast laser sensor to strengthen its laboratories. It has also created the Creative automation and photography laboratories. In addition, select members of the ID faculty received the Brundaban Sahu Memorial Award by IEI-

Odisha, IET Young Engineer award in the field of Mechanical Engineering and Early Career Research Award by DST, Govt. of India.

The Department of Chemical Engineering procured sample preparation units for Transmission Electron Microscope (Make: M/s. Fischione Instruments, USA). The Department has modernized its Fuel and Combustion Lab, Catalysis Research Laboratory and Biochemical Laboratory. A faculty of the Department received the SERS (Scientific & Educational Research Society Meerut U.P.) Environmental Protection Research Award-2018. The Department also launched its M.Tech. programme with a specialization in “Energy and Environment” during 2018. Prof. Lakshminarayanan Samavedham, Department of Chemical and Biomolecular Engineering Department, National University of Singapore (NUS ChBE) visited the Department to conduct GIAN course on Big Data Applications in Process Operations: Modeling, Monitoring and Control. In addition, Prof. Ronald J. Willey, Vice-Chair, Department of Chemical Engineering at Northeastern University, Boston, MA, visited the Department to conduct the GIAN course on Process Safety Engineering.

The scope of academic activities has been significant and varied. The Department of Physics and Astronomy added the PL Micro Raman with a cost of 1.3 Crore. Prof. Yawei Li, Director, National-provincial Joint Engineering Research Center, Wuhan University of Science and Technology, China, visited Ceramic Department. It has received the DST-FIST Grant for Infrastructural Development. A financial support of INR 140 lakh has been received by the Department to add equipment such as Hot Press and Cold Iso-static Press. Dr. Sébastien Proust, Researcher in river hydraulics, Irstea Centre de Lyon-Villeurbanne, Unité de recherche Hydrologie-Hydraulique, Villeurbanne France visited the Civil Engineering department for research collaboration. In addition, Prof. Koji Shiono, Emeritus Professor of Environmental Hydrodynamics, School of Architecture, Building and Civil Engineering, Loughborough University, UK, visited the Department for interaction with research students and faculty members. The Department also received the Campus France grant for advance research in extreme flood events. Civil Engineering Department also conducted GIAN Courses on Structural Dynamics: Analysis and Control, and Coupled Unsaturated and THM Behavior of Soils and Rocks: Applications to Geo-Energy and Geo-environmental Problems.

The Department of Food Process Engineering procured Spray Dryer, Powder flow tester, and Refractometer this academic year. It also created the Food Properties Lab and has introduced the M. Tech. programme in Food Process Engineering. Dr. Shyam S. Sablani, Faculty at Washington State University, visited the Department for research interaction.

The Department of Electrical Engineering procured the Multi-level Inverter based Multiphase Induction Motor Drive, Configurable Matrix Converter for Induction Motor Drive and Universal software radio peripheral (USRP), National Instruments to strengthen its various laboratories. It also created Partial Discharge Laboratory, Advanced Instrumentation Laboratory and Energy System Laboratory. A new PG program called Power System Engineering is introduced in the Department. In addition, the Department has also introduced a part-time (evening) M.Tech. Programme in Industrial Power, Control & Drives.

The Biomedical Department procured Bio-AFM; Bio-3D Printer during the year to strengthen its laboratories. Select members of the Department received the Arunai International Research Foundation (AIRF), Chennai, early career research award, SERB, and SERB ECR award. The Department of Metallurgical and Materials Engineering procured Pulverisette 5 Premium line ball mill with Tungsten carbide Grinding bowl and Grinding balls (FRITSCH, GERMANY) and VERSASTATE3-400 single channel potentiostat / galvanostat / EIS (PAR, USA). The Department organized the international conference ICPCM 2018 in December 2018.

The Department of Electronics and Communication Engineering procured Performance Network Analyser, 10MHz-26.5GHz for Microwave and Antenna Design Lab. It also strengthened its IoT Lab and ISDR Lab to

provide a better infrastructure to students and researchers. A new M.Tech Programme in Microwave and Radar Engineering has been introduced by the department. A Faculty member of the department received the Endeavour Executive Fellowship 2018, Department of Education and Training, Government of Australia.

The Department of Earth and Atmospheric Sciences has taken initiatives to procure X-Ray Fluorescence Analyzer. Laser Precipitation Monitor (Disdrometer) has been added to Atmospheric Instrumentation Laboratory. Dr. Satyaban B. Ratna, Climatic Research Unit, School of Environmental Sciences, University of East Anglia, Norwich, United Kingdom visited the department for research interaction. A member of the faculty received the Young Scientist Award in Ground Water Studies from the Indian National Committee of the International Association of Hydrogeologists. The Department also introduced an M.Tech. programme in Atmospheric and Oceanic Science during the period under evaluation. The Department of Life Science developed two new laboratories, viz., RNA Biology Lab and Human Molecular Genetics Lab. A US patent entitled "Arabidopsis nonost resistance gene(s) and use thereof to engineer disease resistant plants" by its faculty, in collaboration with other institutes, was accepted during August 2018.

The Mechanical engineering department was granted a patent entitled "Wings of formula student race car". The Department also developed its various laboratories such as Tribology, Laser, RP, Cryogenics, Metal forming lab, Dynamic mechanical lab, Multiphase flow lab, Mechatronics and Robotic lab.

The Biju Patnaik Central Library (BPCL) functional since 1965 has always been a pioneer in technical documentation and information management. The BPCL house-keeping operations are now fully automated with state-of-the-art tools that facilitate self check-in / check-out and automatic security system. The RFID system counts more than one lakh transactions (issue, return and renewal) in a year and approximately two lakh users visit the library annually. The BPCL presently has access to over 84000 books, 16,600 e-books, 10,000 NPTEL videos, 18,000 back volumes of periodicals and subscribes to 90 print periodicals, 25 full text and 6 databases which provide access to more than six thousand online journals, including archive collections. During the current year, our library has added close to four thousand book volumes and more than six hundred e-books. The e-Papers@NITR (DSpace), the Institutional Repository has 2934 publications by faculty, research scholars and students. The E-Thesis@NITR (e-Prints), a repository, has 6643 theses archive by research scholars and students. 'NITR Documents' has been accomplished as an official repository of 200 key documents of NITR such as Minutes of BOG, Senate, HOD, MoUs, Accreditation & Ranking, etc. The BPCL also has a rich collection of IS codes, educational video courses and audio-visual materials. It organizes the Annual Book Fair facilitating easy access to and procurement of the latest publications for both the Institute and individuals. As part of Institutional Social Responsibility, BPCL has digitized 779 rare Odia books to preserve the cultural heritage for the future generations.

I am happy to inform you that BPCL of NIT Rourkela has received Best usage awards every year by different publishers such as ACS and Web of Science (Clarivate Analytics). I am also delighted to announce that e-Thesis@NITR, an institutional Open Access electronic theses repository of our Institute, has been ranked 486 among the top repositories around the world. Similarly, e-Papers@NITR, the repository of all intellectual output of NITR, is ranked 1253 in the world. This ranking was published in the 4<sup>th</sup> Edition (November 2018) Transparent Ranking: Institutional Repositories by Google Scholar (November 2018) funded by the CSIC Intramural.

During the year under review, the Film and Music Society (FMS) has been one of the most dynamic societies under the Student Activity Centre (SAC), continually promoting various cultural pursuits amongst students through its seven exiting member clubs. Of these clubs, 'Third Eye' and 'Cinematics' indulge in photography and film-making, respectively; 'The Mavericks', and 'Synergy' practise contemporary dance and choreography; 'Heart Beats' engages in Indian popular and fusion music, and 'Euphony' practises as a rock band, while 'Drill-n-Bass' engages in beat-boxing and electronic music. Additionally, a new club for traditional and folk music, called 'Dotara' has been inducted this year. The society also organises workshops, shows, and festivals on campus.

The year started with the orientation programme for the freshers by organizing friendly matches in different games involving newly admitted students. Inter-Hall tournaments in various games were conducted among the halls throughout the year. Institute teams have participated in All India Inter-NIT Hockey, Swimming, Kabaddi and Handball tournament held at NITK Surathkal from 12 to 14<sup>th</sup> January '18. The Institute Hockey Team sustained their outclass performance by ending up securing 3<sup>rd</sup> Position, Ramesh Chandra Oram adjudged as best Goal Keeper award. Kabaddi Team emerged as Runners up in the tournament. Institute Swimmers (M&W) won many accolades with 2 Gold, 1 Silver, 4 Bronze in various individual and team events. Institute Badminton Team (M&W), Tennis and Basketball (M&W) have participated in All India Inter NIT Tournament held from 27<sup>th</sup> to 29<sup>th</sup> January '18 at NIT Warangal. Institute Badminton Women Team has brought laurels by winning Gold in individual and team events. Institute Tennis (M) Team secured the Third position.

Institute Teams Gymnasium, Table Tennis, Volleyball and Football have participated in IIT-Roorkee Sports Fest SANGRAM conducted from 29 March 2018 to 01 April 2018. Whereas Institute Athletics (M&W) and Kho-Kho (M) Teams have participated in IIT Bombay Sports Fest AAVHAN from 29<sup>th</sup> March to 1<sup>st</sup> April at IIT Bombay, Institute Athletics Team Captain Mahaveer. T successfully won Bronze medal in Triple Jump event.

Annual open swimming competitions for students, campus children and institute staff were also conducted during 2017-18 session. The 56<sup>th</sup> Annual Athletic Meet was conducted during 10-11 February 2018 in which SD Hall of Residence adjudged the Behera Cup for overall Championship.

On the basis of annual sports performance Institute has bestowed Games Blue Award to Rajat Kumar Dalai (Swimming and Athletics), Pandit Venu Bhushan (Swimming)) and B. Susrisweta (Athletics) for the year 2017-18.

Art & Culture Society (ACS) is one of the most dynamic societies under the Student Activity Centre (SAC). SYNERGY club participated NITRUSTUV 2017 and received runners up award. Besides this they also participated BITS Hyderabad and got Winners award. In 2018 NITRUSTUV the club received winners award. In NIT Warangal they also got consolation prize for special music. Mavricks club received runners up award for 2018 NITRUSTUV. Pentomine club attended drama programme at IIT Dhanbad and got 1<sup>st</sup> prize in 2018 and also received the best jury award at IIT Kharagpur.

A six-day 'Contemporary Dance Workshop' was organised for students during September 2018, conducted by Mr. Bijaya Nayak, an eminent danseur and choreographer from Athens, Greece. The participants received intensive training, beginning with basic forms and techniques of various contemporary dance styles, and extending to elements of improvisation and choreography. The workshop seems to have had a positive effect, as reflected in the performance of the students in various dance competitions. The two-day long 'COSMOPOLITAN' Festival' (a festival of folk, classical, traditional form of art like dance, music and drama) was organised from November 10-11, 2018. More than 800 students participated in this competitive, cultural extravaganza, showcasing the many hues and shades of the diverse performing arts from across India. The students from foreign countries also had a special slot for their indigenous cultural performances. Various pieces of dance, music, theatre, recitation, etc., were composed and practiced by the students, often with help from invited professional trainers. The presentations were evaluated by invited members of jury, who expressed immense praise for the variety and excellence of the students' endeavours. 'Roots' a Creativity Conclave was organised from March 31 to April 2, 2018. The event saw more than 500 students participate in workshops, guest lectures, interactive sessions, and exhibitions of Design, Art, Photography, Film-Making, Music, and Literature. With the participation of fourteen invited experts from across the nation, the three-day conclave was perhaps the first to offer the students an exceptional exposure of the creative industry and its stalwarts.



The 'Musical Nite' was organised on 4 February 2018 at the Dillip Tirkey Stadium. The musical extravaganza featured the emerging Bollywood talent, Mr. Papan, and his musical troop. A considerable audience, including students, members of faculty, staff and their families, enjoyed and appreciated the three-hour show. An annual subscription for digital television was acquired by FMS, through which private shows for students were conducted at the Bhubaneswar Behera Auditorium. The students were able to enjoy several movies and sporting events, like the IPL matches. The Third Eye club organised their annual photography exhibition, VIVID, at Rajendra Mishra Exhibition Hall from March 31 to April 2, 2018, with medium format works of club members as well as other contributors. Spanning various genres of photography like portraiture and candidates, landscapes and nature, still-life and abstracts, architecture and street photography, as well as digital montages and creative manipulations, the exhibits received favourable reviews. The Cinematics club returned with wonderful performances from the 'Pearl 2018' fest, organised by BITS Pilani at Hyderabad. Club members won the first prize in 'Candid Smiles Photography', and 'Events Extravaganza photography', as well as second prize in 'Digital Art', and 'Vividh', over and above certificates of excellence and cash prizes. At the 'Alcheringa 2017' fest, organised by IIT Guwahati, club members won the second prize in 'Director's Cut', as well as mementoes and goodies. Members of the club also took up a freelance video-production project for a renowned Group of Hotels for the erstwhile 'Panthanivas' chain of the Govt. of Odisha. The project focused on Odisha Tourism, and has been showcased to the Principal Secretary, Tourism and Culture, Odisha. The endeavours of Cinematics have resulted in many film productions, trailers, podcasts, music videos, and after-movies of fests during the past year, eight of which are already available on YouTube. Among them, 'Altum - An Aerial perspective of NITR', and 'REC to NIT - A Nostalgic Journey' deserve special mention. Two on-campus workshops on design, photography, film-making, and video-editing (organised by Cinematics in collaboration with the DesignTab club), during February 2017 and October 2018, were attended by about 120 students.

The Mavericks club bagged the first prize in 'Centrifuge dance competition' at the 'Spring Fest 2018' organised by IIT Kharagpur, as well as the first place in the group dance competition of NIT Rourkela's own fest, 'NITRUTSAV 2018'. The club also organised a two-day basic dance workshop on campus for 25 participants, during March 2018. The Synergy club returned with cash prizes for securing first position in 'Terpsichore Solo and group dance' event at the 'Pearl 2018' fest, organised by BITS Pilani at Hyderabad. Members of the club also won the second prize in 'Footloose Duet and group dance' event at 'NITRUTSAV 2018'. Synergy also organised a one-day dance workshop for students with 40 participants. The members of both the dance clubs also presented choreographed performances during the Institute Foundation Day and the Fresher's Welcome. The Heartbeats club once again organised the very popular musical event of 'Maktub' during NITRUTSAV 2018.

The Art and Culture, and Literary societies celebrated the 150<sup>th</sup> birth anniversary of father of nation Mahatma Gandhi with a seven-day celebration through various competitions like quiz, GK, essay writing, painting, debate etc. in the month of October 2018 and movie screening on the life of Gandhi at BBA.

Ladies and Gentlemen, Sponsored Research and Industrial Consultancy are hallmarks for an Institution of higher learning. NIT Rourkela has traditionally been known as a leader in this aspect among comparable Institutions across the country. To present an overview, a total of 112 consultancy projects with a gross value of nearly INR 4.39 crores and 242 sponsored projects with a gross value of INR 76.10 crores are being pursued in different departments of our Institute. During the calendar year 2018, the Institute has received sanction of 54 sponsored projects with a total of INR 12.32 crores and 47 consultancy projects with a total value of INR 2.94 crores. In addition to these projects, funds to the tune of INR 84.20 lakhs have been obtained for "Crustal deformation study across Narmada Son failed rift zone, Central India from Ministry of Earth Sciences, Government of India".

Short term courses, conferences including international ones, seminars and workshops are important academic activities that foster interaction among scientists and engineers and increase visibility of the Institute among its

scientific peers. The Institute has taken initiatives towards hosting handful of academic conferences and inviting scientific workers from across the country to our campus. During the calendar year 2018, the Institute has conducted 38 short-term courses, conference / seminar / workshops. All these courses have been well attended by researchers from several institutions across and beyond the country.

Our Training and Placement Centre has been untiringly coordinating with several organizations to provide quality placement to our graduate and postgraduate students as well as doctoral scholars both inside and outside the country. During the academic session 2017-18, a total of 237 recruitment drives from 212 different companies were handled for full time employment, out of which the highest pay package offered was INR 39.1 lakhs per annum. A total of 1016 full-time job offers were provided to our students, out of which 777 were for male and 239 were for female students. There was an increase of 53% in job offers compared to that of 2016-17 academic year. For the graduating batch of 2018, the two significant records in placement statistics were achieved: The total number of companies that visited our campus for full-time employment crossed a double-century with a figure of 212. The total number of full-time job offers crossed the four digit figure with 1016.

In the last academic year, major PSUs such as HPCL, BPCL, IOCL, and EIL participated in the campus recruitment process. Software companies such as Adobe, Amazon, Microsoft, Goldman Sachs, Oracle, Qualcomm, SAP Labs and Teradata provided job offers to our students. Numerous core companies such as Tata Steel, Exxon Mobile, St. Gobain, Hindalco and many others participated in our placement season. In addition, our institute has always attracted major automobile companies and the past year was no exception with the likes of Tata Motors, Hero Moto Corp, Maruti Suzuki and Bajaj Auto. Among the leading consulting and analytics sector companies that visited our campus are PWC US Advisory, Play Simple Games, Tredence Analytics, and Affine Analytics and others.

The Training and Placement Centre of our institute has also arranged industrial training/ research internship for a minimum period of 8 weeks for all the 717 third year B.Tech. and Dual Degree students in 331 different reputed organizations within and outside the country during the summer of 2018. Some students also visited foreign universities such as University of Waterloo, University of British Columbia, University of Alberta, Simon Fraser University, University of New Brunswick, Ryerson University, Dalhousie University, Carlton University to carry out their research internship with full scholarship. A regular feature of our training programme for undergraduate students also includes local study tour to nearby industries to get an exposure to the practices followed in different industries. Twenty-nine such tours were conducted during the academic year 2017-18 for B.Tech. and Dual Degree students in their 3<sup>rd</sup> and 4<sup>th</sup> years.

It gives me immense pleasure to say that in the current academic session 2018-19, our Institute has already attracted more than 100 companies in various sectors for campus placement and more than 600 job offers have already been made. For the first time, we have been successful in adding major companies such as KPMG, Math Works, Myntra, Nutanix, ABInBev, Dell, Tiger Analytics and Synopsys to our visitors' list this year and the highest annual package has gone up to Rs. 40.63 lakhs, i.e. from Adobe Systems India Pvt Ltd. Apart from full-time employment, major firms such as Microsoft, Goldman Sachs, Myntra, Math Works, Innovacer, Tata Steel, Schneider Electric, Saint Gobain, etc., have offered internships to our 3<sup>rd</sup> year B.Tech. and Dual Degree tech students. Our Training and Placement Centre has been working tirelessly to make NIT Rourkela one of the most preferred institutes for campus recruitment, and we are sure of attracting even more organizations in the future.

NIT Rourkela leadership along with the alumni has stepped up with a bold, ambitious, and aspirational plan for transforming the institute into the top 10 premier technology institutions in the country by 2025, envisioning seven critical domains or pillars of action to enable this transformation. The most important pillar is Cutting edge research output, through the establishment of 6 interdisciplinary Centres of Research Excellence in Advanced

Analytics and Intelligent Systems, Sustainable Research and Technology Centre, Nanotechnology, Advanced Automation, Materials Science and Manufacturing, and Health Sciences. Other pillars are World Class Faculty Pool, 21<sup>st</sup> Century Curriculum and pedagogy, Industrial Relations and Entrepreneurship, Scaling of Alumni Engagement and Resource Generation, Brand Image Revitalization, and Execution Excellence. A strong and dedicated team led by faculty members and assisted by accomplished and motivated alumni is being framed.

NITRADAAN is a global platform of alumni-contribution created by the alumni that connects its strong alumni base and 5000 corporations worldwide to assist NITR in its pursuit for academic and research excellence. One of the most important initiatives is the Student Scholarship Fund, which has a target of generating \$300,000. More than \$77,000 has been accrued, and scholarship disbursements have continued. I must add that the Pendyala Scholarships are already being given to the students. To support the travel of students for academic and research purposes, another initiative has begun with a target of \$500,000, and contributions have begun pouring in.

A shining initiative by the alumni has borne fruit. In the name of late Prof. Ajay Kumar Mohanty, an endowed chair professorship has been established in the Department of Electrical Engineering with an objective to attract an outstanding researcher and enhance the research output of the institute. The Endowment will pay INR 25,000 per month to the Chair Professor and will support INR 3 Lakhs annually for research purposes. Recently, Prof. Anup Kumar Panda has been selected as the first recipient of the Chair.

In the same line, planning for an Endowment for Prof. S.S. Pani Chair Professorship in the Department of Metallurgical and Materials Engineering is underway. It must be mentioned that alumni and corporate sponsored Chair Professorships in the Centres of Research Excellence are also being contemplated.

Another superlative initiative by the alumni is the Emerging Technology Business Incubator, which is led by NIT Rourkela, and with active support by NITRAA and other major industries and institutes. It focuses on augmenting the entrepreneurial activities of the institutes by strengthening the business support system through an accelerator process. NALCO, a navaratna PSU, and DST, Govt. of India, have come forward to support the initiative with seed fund support and additional space at Bhubaneswar in the NALCO Centre of Excellence. The ETBI plans to benefit young entrepreneurs not only from NIT Rourkela, but also from across the technological institutions in the region. NIT Rourkela alumni have come forward for support through mentoring and angel investing.

Another watershed moment is the signing of an agreement of cooperation between University of California, Davis and NIT Rourkela to collaborate and engage in furthering the common interests and objectives in academic, scientific and cultural affairs, and to facilitate intellectual interactions through faculty and student exchange programs. This has been possible through one of our distinguished alumni Prof. Prasant Mohapatra who is the Vice Chancellor of Research in UC Davis.

A dream convention of the alumni was celebrated in San Francisco in 2018 that saw attendees over 375, mostly graduates from all over the USA and twenty people from India, Qatar, Canada, UAE and Ireland. The convention had stellar speakers including Nobel Laureate in Medicine Prof. Michael Levitt of Stanford University, NASA Astronaut Dr. Steve Robinson, Dr. Santrupt Misra, Chairman, BOG of NIT Rourkela, and many of our distinguished alumni including Mr. C.P. Gurnani, CEO Tech Mahindra, Mr. Sandip Das, former CEO of Orange / Hutchison and former MD Reliance Jio, celebrated artist Dr. Akash Khurana were among the other speakers. The Vision 2025 plan was unveiled in that momentous occasion.

A month ago in December, the Delhi Chapter of NITRAA organized a Global Summit that witnessed an exodus of NITRAA spirit and bonhomie. The event included scintillating discussions on entrepreneurship, women in technology, innovation, skill development, and the building of great institutions. The most significant event was Investomania, where budding entrepreneurs pitched their ideas and some key alumni investors evaluated and invested in some of the startups.

Our Institute has been bestowing the “Distinguished Alumnus Award” on alumni who have made their alma mater proud by their professional and social achievements. This year, these awards are bestowed on four dignitaries: Dr. Swati Mohanty (1983 Batch B. Sc. (Engg.) Chemical Engineering alumnus) who is Chief Scientist at CSIR-IMMT, Bhubaneswar, India, and who has made significant contributions in the area of process modeling, simulation, optimization, and control; Ms. Soma Mondal (1984 Batch B.E. in Electrical Engineering alumnus) who in the capacity of a Member of the Board of Directors of NALCO, and SAIL, has made significant contribution in corporate governance, business planning, domestic and international sales and marketing, logistics, and materials management, in the metals and minerals industries; Dr. Om Agrawal (1968 Batch B. Sc. (Engg.) in Electrical Engineering alumnus) for his outstanding contribution to research and product design in the semiconductor industries, particularly in the field of high performance Programmable Logic Devices, while working with AMD, Vantis, and Lattice Semiconductor, USA; and Mr. Sanjay Mohanty, (1980 Batch B. Sc. (Engg.) in Electrical Engineering alumnus) for his significant contribution to society through entrepreneurship, employment generation, wealth creation, and leadership in scientific aquaculture in the state of Odisha. I call upon all young graduates of this year to follow the footsteps of your elder siblings and make your alma mater proud.

It gives me pleasure to state that a new and ambitious phase of construction totalling a value over Rupees 300 Crore has been taken up to cope with increased demand of academic, hostel and residential buildings.

Ladies and gentlemen, our future looks bright. The day is not far when NIT Rourkela will boast 10,000 students and research scholars, 1000 faculty members supported by 1200 odd non-faculty staff in over 25 departments / centres. Satish Dhawan Hall of Residence and two faculty residences are completed and taken over by NIT. The Mechanical Engineering buildings, lecture hall complex-2, and the Golden Jubilee Building are at final stages of completion. This not only doubles our strength, it will also show better results for a very vibrant campus. Schemes have already been initiated for a sports complex housing basketball, badminton courts, centre for yoga, music, dance and other recreations with a 1500 capacity open air theatre. Other facilities like a 600 seater ladies hostel, and NIT extension centre at Bhubaneswar are in pipeline.

Convocation is a special event in the academic calendar of any Institute. We hope today's event is one that all our graduates, postgraduates and doctorates will treasure along with their memories of the years they spent in this Institute. I extend my heartiest congratulations to all of them, with a special word of felicitation to those who have received awards and medals. I feel honoured to announce the names of the students who, as recipients of gold and silver medals for their academic excellence, have made their alma mater really proud of them. I personally congratulate the 11 Gold Medal winners: Shri Chinni Rewant of the Department of Mechanical Engineering, the Best Graduate of the 2018 batch, Shri Madan Raj C from Safety Engineering Specialisation under the Department of Chemical Engineering, the Best Post Graduate in M. Tech. Programme, Miss Ankita Mohanty of the School of Management for Best MBA, Miss Trisha Kundu of the Department of Life Science for being the best among the M. Sc. and M.A. students, Shri Bharath A. B. of Department of Chemistry for being the topper in the Integrated M. Sc programme, and Miss Rajrani Patra from Transportation Engineering Specialisation under the Department of Civil Engineering for the best Postgraduate in the B. Tech. and M. Tech. Dual Degree Programme.

I also congratulate Shri Shivam Rai, a graduate of the Department of Mechanical Engineering, who has been awarded the Gold Medal for the Best Undergraduate project (B. Tech. & B. Arch.), Shri Bibhu Bhusan Sha of the Department of Mechanical Engineering for the best Postgraduate Project (M.Tech. & Dual Degree) and Shri Jiteshwar Dadich of the Department of Earth and Atmospheric Sciences for the best project from among M.Sc. and MA.

I also take this opportunity to congratulate all the winners of the Branch Topper Medals for their hard work in respective specializations which has brought them these laurels today. At the last, I specially congratulate Miss Kamalini Devi of the Department of Civil Engineering who has been awarded the Snigdhashri Patra Memorial Gold Medal for the Best Ph.D. Thesis of 2017-18.

I also extend my congratulations to the proud parents who will remember this day with as much pleasure, if not more so, as their graduating children. My dear students, you proved your worth by securing admission to this august Institute, two, four or five years ago. We have shaped an important phase of your life by providing superior academic and extra-academic atmosphere to enhance your skills. The period here has also enabled you to discover your true potential and decide on your future course of action as per your interests. The degree you have won by hard work is just the beginning of the next phase of your life. It should motivate you to take the path of honesty, sincerity and personal and professional integrity to pursue your future dreams. As said by the great visionary. Dr. A P J Abdul Kalam, who graced this Institute few years ago: “Failure will never overtake me if my determination to succeed is strong enough.”

Our Institute has given you the breadth and depth of education and the unique values required for you to move forward in life. This degree opens up for you a multitude of avenues in a wide variety of fields. With the education you have obtained in this august Institution, you are well qualified to contribute to our society and our country and aid her in her quest for good infrastructure, healthcare, education and technology for the benefit of humankind. Some of you will aspire to be entrepreneurs, some managers, some civil servants, some academicians and some industrialists. Allow me the privilege of giving you a word of advice here. Our earth is going through a critical phase with scant regard for preserving her beauty, natural wealth and resources. Cities are bursting at their seams, rivers are polluted, minerals are over mined, climate is changing, and much more. Hence empathy and concern for the dwindling resources of our beautiful planet earth and the less fortunate among us in our great country and the world beyond should guide us in every step of our career. We are all looking forward with great hope to see the achievements being made by our students in future. We wish all of you the very best in your chosen professions.

Irrespective of what the future brings in your life, I have no doubt that you will look back to the years you spent in this institute with nostalgia and fond memories of academic and extra-academic activities and life in the hostels. I am certain that no matter where you go, you will carry the mark of excellence that NIT Rourkela has bestowed upon you. Through the coveted NIT certificate, I charge every recipient of the degree with the responsibility of spreading the religion of technology in an effort to make its fruits available to the poorest of the poor so that he or she shall no longer stay poor.

*Jai Hind*

**Professor Animesh Biswas**



## DOCTOR OF PHILOSOPHY

### Department & Candidate's Name

### Title of the Thesis

#### **BIOTECHNOLOGY AND MEDICAL ENGINEERING**

PARINITA AGRAWAL

Development of Cell-scaffold Construct for Cartilage Tissue Regeneration

VINAY KUMAR SINGH

Development and Characterization of Sesame Oil based Formulations for Controlled Drug Delivery

#### **CERAMIC ENGINEERING**

ABHISEK CHOUDHARY

Fabrication and Characterization of Preceramic Polymer Derived Macroporous Silicon Oxycarbide

RUPITA GHOSH

Study on the Development of Calcium Phosphate based Machinable Bioceramics

JAYARAO GORINTA

Development of  $\text{Li}_4\text{SiO}_4$ -based Ceramics for Solid Breeder and  $\text{CO}_2$  Absorption Applications

#### **CHEMICAL ENGINEERING**

D SESHU KUMAR

Devising Numerical Methods for Simulation, Identification and Control of Fractional Order Processes

MALLAPPAA. DEVANI

Removal of Heavy Metals from Solutions using *Cajanus cajan* Husk and *Butea monosperma* Leaves as Biosorbents

RAHUL PURBIA

Sustainable Synthesis of Multifunctional Nanomaterials for Sensing and Catalytic Applications

#### **CHEMISTRY**

ANIKET KUMAR

Metal Oxide-Decorated Graphene Oxide Nanocomposites for Catalytic and Photocatalytic Applications

ARAVIND BABU KAJJAM

Design, Synthesis, Photophysical and Theoretical Investigation of Iridium(III) Complexes and Organic Luminophores for LEDs/OLEDs and Chemosensors

AVISHEK GHOSH

Synthesis and Characterization of Mono-, Di- and Tri-Ferrocenyl based Molecular Compounds and Study their Electronic Communication and Photovoltaic Performance

DAYANIDHI MOHANTA	Molecular Dynamics Studies of the Effects of Alcohols on Chymotrypsin Inhibitor 2
DINESH KUMAR NAYAK	C-N and C-O Bond Formation Reactions: Synthesis of N-Aryl Amides, Benzoxazoles and 3(2H)-Furanones
KISHORE BABU RAGI	Studies on the Effects of the Congo Deforestation on Local Drought and Ozone Pollution
MANOJ KUMAR GHOSH	New Synthetic Intrigues Towards Oxidative Dearomatization and Related Strategies
SAGNIKA PRADHAN	Catalytic Applications of Surface and Structurally Modified Zirconia Nanoparticles for Synthesis of Biologically Important Molecules
SHABNA PATEL	Functionalized Electrospun Polyacrylonitrile (PAN) Nanofibers: Synthesis, Characterization and Environmental Applications
SUDARSHANA MAJUMDER	Oxidomolybdenum Complexes of Mono- and Dibasic Polydentate Ligands: Characterization, Biological and Catalytic Evaluation
UTTAM KUMAR SAHU	Environmental Friendly Iron Oxide based Magnetic Nanomaterials: Synthesis, Characterization and Application for Arsenic Removal
YAGNA PRAKASH BHOI	Photocatalytic Application of Bismuth based Semiconducting Nanoparticles and their Heterostructures towards Selective Organic Transformations and Degradation of Persistent Organic Pollutants

## **CIVIL ENGINEERING**

ASHISH KUMAR PATNAIK	Entry Capacity Modelling of Roundabouts under Heterogeneous Traffic Flow Conditions
BHABANI SHANKAR DAS	Non-uniform Flow Modeling in Compound Channels with Non-Prismatic Flood plains
BHOSALE AVADHOOT SHIVAJI	Studies on Vertically Irregular RC Infilled Frame Buildings
JANAKI BALLAV SWAIN	Streamflow Estimation in Ungauged Catchments through the Process of Regionalization
JYOTI PRAKASH GIRI	Development and Evaluation of Bituminous Paving Mixtures Containing Treated and Untreated Recycled Concrete Aggregates

KAMALINI DEVI	Flow Modelling in Straight Compound Channels with Symmetrical, Asymmetrical and Unsymmetrical Floodplains
MAHASAKTI MAHAMAYA	Development and Characterization of Sustainable Geomaterial using Mining and Industrial Wastes
MRUNMAYEE MANJARI SAHOO	An Integrated Hydrologic Bayesian Multi-Model Framework for Water Quality and Nutrient Analysis
ROMA SAHU	Studies on Ultimate Bearing Capacity of Shallow Foundations resting over Geogrid-reinforced Sand under Centric Inclined and Eccentric Vertical Load
SAINE SIKTA DASH	Flow Modelling of Straight and Meandering Compound Channels
SALEEMA PANDA	Nonlinear Finite Element Static and Dynamic Analyses of Stiffened Plates
SAMBIT KUMAR BEURA	Investigation and Modeling of Urban Street Bikeability from User's Perspective
SHAMSHAD ALAM	Characterization for Effective Management and Utilization of Red Mud
SUPRAVA JENA	Performance Assessment of Urban Street Facilities Addressing Improvement Issues of Automobile Mode

## COMPUTER SCIENCE AND ENGINEERING

ANSUMAN MAHAPATRA	Framework and Algorithms for Multi-View Video Synopsis
JITENDRA KUMAR ROUT	Detection of Deceptive Online Reviews using Machine Learning Techniques
PRAMIT MAZUMDAR	Human Mobility Analysis in Location-based Social Networks
RANJITA KUMARI DASH	Thermal Management in Three Dimensional Network-on-Chip Based Systems
SOURAV KANTI ADDYA	Virtual Machine Placement and Pricing on Cloud Data Center
SUSMITA MANDAL	On the Design of Key Exchange Protocol and its Variants

## ELECTRICAL ENGINEERING

ADITI CHATTERJEE	Development of Efficient Control Strategies for Single Phase Grid Integrated Inverters for Photovoltaic Applications
ALIVARANI MOHAPATRA	Optimized Parameter Estimation, Array Configuration and MPPT Control of Standalone Photovoltaic System
AUROBINDA BAG	Development of Adaptive Controllers for Grid Integration of A Three-Phase PV System
DAMODAR PANIGRAHY	Extraction of Fetal ECG Signal from the Single Channel Abdominal ECG Signal Recording
MRUTYUNJAY MANGARAJ	Design and Modelling of DSTATCOM using Various Hybrid ANN control Algorithms
PRATAPRANJAN MOHANTY	Topological Issues in PFC Circuit and Nonlinear Controller for Improving the Dynamic Performance of AC-DC System
RABINARAYAN MISHRA	Development and Implementation of Some Controllers for Performance Enhancement and Effective Utilization of Induction Motor Drive
RAJASHREE NAYAK	Development of Efficient Methodologies for Image Super Resolution Reconstruction
SANTOSH KUMAR BEHERA	Development of Improved Active Noise Control Systems and their Real-Time Evaluation
SOUMYA RANJAN MAHAPATRO	Robust Decentralized Control Algorithms for a Multivariable Liquid Level System
SUDIPTA CHAKRABORTY	PID Controller Design for Integrating Plus Time-Delay Processes
SUBHASISH MAHAPATRA	Nonlinear H8 Control Algorithms for Autonomous Underwater Vehicle in Diving and Steering Planes
TRILOCHAN PENTHIA	Performance Analysis and Application of Superconducting Magnetic Energy Storage in a Power System
YOGANANDA PATNAIK	Development of Efficient Scalable Video Compression Schemes for H.264/SVC Platform

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

ACHALAPANDEY	Development of Efficient Algorithms for Seamless Image Mosaicing
ADITYAACHARYA	Development of Some Spatial-domain Pre-processing and Post-processing Algorithms for Better 2-D Up-scaling
ANOOKUMARMISHRA	Performance Evaluation of Cooperative Relaying Systems with Channel Estimation Error and RF Impairments
GOVINDARAO LOCHARLA	Variable Length FFT/IFFT Processor: Algorithm to Architecture Mapping and Implementation
JYOTIPRASANNAPATRA	Signal Detection and Channel Estimation for Space-Time Block Coded Mobile Communication Systems
SATYENDRASINGHYADAV	Development of Wireless Communication Algorithms on Multicore/ Manycore Architectures
SUBHRANSUPADHEE	Topology, Modeling and Control Aspects of DC-DC Converter for an Off-Grid Operated Fuel Cell Power System Perspective

## **FOOD PROCESS ENGINEERING**

BABY ZAITHANPUII HMAR	Design and Development of a Pulper for Kendu Fruit
PAYEL GHOSH	Development of a Process for Clarification and Concentration of Jamun(Syzygium Cumini) Juice using Membrane Filtration

## **HUMANITIES AND SOCIAL SCIENCES**

ANANYAPARIDA	Between Rebellion and Resistance: A Study of Select Andaman Penal Narratives
DHANANJAYKUMAR	Changing Agricultural Practices and their Impact on Rural Social Institutions in Uttar Pradesh, India
DHIRAJKUMAR	Political Ecology of Everyday Resistance and State Building: A Case of the Ho of Jharkhand, India
JAYASHREE PARIDA	Rural Livelihoods, Adaptation and Disaster Risk Governance: Understanding Flood-Induced Vulnerability in Coastal Odisha, India

MADHULIKA SAHOO	Reproductive Healthcare Rights, Practices and Challenges among the Displaced Tribal Communities in India
MEENAKSHI S	Graduate Attributes vis-à-vis IT Employers' Expectations: A Study on Undergraduate Engineering Education in India
RASHEDA PARVEEN	Religion and Sexuality: A Study Of Select Indian English Poets
RINSHU	Assessing Inequity, Catastrophe and Impoverishment in Healthcare Expenditure in India

## INDUSTRIAL DESIGN

MUDDU ALLAPARTHI	Three-Dimensional Finite Element Analysis of Conventional and Ultrasonic Vibration Assisted Micro-Drilling on PCB
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## LIFE SCIENCE

BHAKTI PATEL	Identification of Immunoglobulin IgZ and IgM and the Role of Innate Immune Signaling on their Synthesis in Catla Catla
DEBASIS NAYAK	Ethosomal Nano-Carriers Encapsulating Novel Green Synthesized AgNPs and Sericin Protein as Potential Therapeutics against Skin Carcinoma
MOUMITA SAHOO	Development of Synbiotic Functional Food using Potential Probiotic Isolates with Soymilk and Mushroom Extracts as Prebiotics
RITU RAJ	Synthesis of Fluorescent Nanoparticles and Bacteria-Nanoparticle Conjugates for Targeted Delivery of Cancer Therapeutics
MOUSUMI SAHU	Deciphering Transcriptional and Post-transcriptional Regulation of Genes Modulating Stem Cell Pluripotency and Differentiation Networks
SHREYASI ASTHANA	The Effects of Zinc Oxide Nanoparticle Interface on Conformational Dynamics of Protein Models from Different Structural Hierarchies
SUPRIYA KUMARI	Bioremediation Potential of Biofilm forming Lead Resistant and Naphthalene utilizing Marine Bacteria

**MATHEMATICS**

ADARSHAKUMAR JENA	Estimating Parameters under Equality and Inequality Restrictions
DEEPTI SHAKTI	Uniformly Convergent Numerical Methods for Singularly Perturbed Initial and Boundary Value Problems
RATAN KUMAR GIRI	Study on some Problems in Elliptic PDEs and Operators over Function Spaces
SUBHADARSHAN SAHOO	The Novel Analytical Methods for the Solutions of Generalized-fractional Order Differential Equations Arising in Physical Models

**MECHANICAL ENGINEERING**

ABHILASH PUROHIT	Processing and Tribo-Performance Analysis of Polymer Composites Filled with Linz-Donawitz Sludge
AJAY KUMAR GUPTA	Performance of Plate Fin Heat Exchanger at Cryogenic Temperature
AKHTAR KHAN	Machinability Assessment of Commercially Pure Titanium (CP-Ti) Grade 2 during Turning Operation
ASHIRBAD SWAIN	Viscoelastic Modelling and Dynamic Analysis of CNT-based Composite Shell Panels
BIBHUTI BHUSAN SAHOO	Buckling, Vibration and Dynamic Stability of Sandwich Beam with Functionally Graded Material Constraining Layer
CHINMAYA SAHU	Navigational Analysis of Artificial Intelligence based Control Strategy for Humanoid Robot
CH SATEESH KUMAR	Effect of Surface Modifications on the Hard Turning Performance of Al <sub>2</sub> O <sub>3</sub> /TiCN Mixed Ceramic Cutting Tools
KASINATH DAS MOHAPATRA	Experimental and Numerical Investigations of Machining Ti-6Al-4V Spur Gears using WEDM Process
MUNMUN BHAUMIK	Investigation of EDM Operation of High Strength Materials using Untreated and Cryogenically Treated Electrodes: Experimental and Numerical Analysis

PRABINA KUMAR PATNAIK	Processing, Characterization and Slurry Abrasion Wear Behaviour of Needle-Punched Nonwoven Fabric Reinforced Polymer Composites
PRABHUL	Studies On Aerodynamic Performance And Flutter Instability In Aerofoils
PRIYADARSHI TAPAS RANJAN SWAIN	Mechanical, Thermal and Tribological Behaviour of Surface Modified Jute Fiber Reinforced Epoxy Composites
SHINCE V JOSEPH	Buckling, Free Vibration and Dynamic Stability of Sandwich Plates with Functionally Graded Material Constraining Layer
SHRUTEENIGAM	Copper Deposition on RP Parts: An Experimental Investigation
SMITAPARIDA	On the Linear and Nonlinear Free Vibration of Functionally Graded Material Plates in the Thermal Environment
SURAJ KUMAR BEHERA	Tribology and Rotordynamics of Small High-Speed Cryogenic Turboexpander
TIJOD	In-situ TiC-TiB <sub>2</sub> coating on Ti-6Al-4V alloy by powder suspension electro-discharge coating (EDC) and tungsten inert gas (TIG) cladding processes

## **METALLURGICAL AND MATERIALS ENGINEERING**

BIKASH RANJAN PARHI	Reduction of Bauxite through Hydrogen: Future Method of Extraction of Aluminium
SRIMANT KUMAR MISHRA	Ratcheting and Ratcheting-Creep Interaction in A356 Aluminium Alloy

## **MINING ENGINEERING**

AGAMDAS GOSWAMI	An Evaluation of Multi-point Stochastic Approaches for Uncertainty Assessment in Ore Grade Estimation
ALOK RANJAN	Studies on Low-Power Wireless Sensor Networks for Improvement of Safety in Mines
ASHOK KUMAR PATEL	Development of an Online Vision Based Integrated Quality Monitoring Model for Mineral Industry
BISHNU PRASAD SAHOO	Characterization of Overburden and Fly Ash Materials for Backfilling in Opencast Coal Mines vis-a-vis Hydrogeochemical Analysis - A Case Study



DANIV	Geoinformatics Application in Land Use Dynamics and its Biogeophysical Impacts on Macro Climate - A Case Study
DEVENDRA JOSHI	Stochastic Open Pit Mine Production Scheduling Under Geological Uncertainty
HARINANDAN KUMAR	Estimation and Simulation of Gas Permeability as well as Stress-Strain Behaviour of some Indian Coal Seams
K GURU RAGHAVENDRA REDDY	Development of Image Processing and Neuro-Fuzzy Based System for Ore Sorting in Mining Industry
MANASI MANJARI MOHANTY	Numerical Simulation of CO <sub>2</sub> Sequestration to Enhance Methane Recovery using Multi-point Geostatistics
SHWETA B THOMAS	Coal Layer Thickness Estimation using GPR Signal Processing Techniques
SRINIVAS RAO DATRIKA	Development of Soft Computing Models for Noise Prediction in Opencast Mines
SUCHARITA PATEL	Development of Adsorption Media by using Industrial Waste: Red Mud for the removal of As (V) Ions from Water

## PHYSICS AND ASTRONOMY

CHANDRA SEKHAR MALLAM	Synthesis and Characterization of ST and NN modified BNT-KNN, BNT-BT-BKT Ceramics for Energy Storage Applications
KADAMBINEE SA	Electrical, Mechanical and Thermal Properties of Graphene-Carbon Nanotubes/PMMA Hybrid Nanocomposite
PRAKASH CHANDRAMAHAKUL	Fabrication and Characterization of Carbon Nanotubes and Graphene Based Organic Photovoltaic Cells
RANJIT PATTANAYAK	Study of Grain Size Effect on Microstructural Conduction Mechanism and Multiferroism of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> -BaFe <sub>12</sub> O <sub>19</sub> Particulate Composites
SANTRIPTI KHANDAI	Design and Construction of Fluorescence Recovery after Photobleaching Set up & Investigating Structure and Diffusive Dynamics inside Random and Restricted Media

SATYABRATA SATPATHY	Synchronization of Chaotic Parametrically Excited Pendula in Oscillating Regime
SOUMYARANJAN MOHAPATRA	Substitution Induced Modifications in Structural, Magnetic and Magnetodielectric Properties of Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub>
SUNIRMAL SAHA	Investigation of Mechanical, Thermal and Electrical Properties of Various Carbon Nanofillers Incorporated Epoxy Composite for Marine Applications - A Comparative Study
SENTHIL V	Electrical and Photocatalytic Characterizations of Rare Earth-Modified Layered Ferroelectric SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> Ceramics
<b>SCHOOL OF MANAGEMENT</b>	
SARITA MISHRA	Performance, Structure and Compensation Contract of Indian Venture Capital Deal
SHRITI MAZUMDAR	Cash Flow for Indian Industry: An Analysis using an Advanced Framework
SUNITA PANDA	Organizational Efforts towards Effective Executive Talent Management: An Analytical Study

## MASTER OF TECHNOLOGY (BY RESEARCH)

### Department & Candidate's Name

### Title of the Thesis

#### **CERAMIC ENGINEERING**

ANKIT KUMAR

Development of Solid-State Derived Strontium Aluminate based Luminescent Materials

BISWAJIT BARUAH

Sintering and Mechanical Properties of Zr-doped Al<sub>2</sub>O<sub>3</sub>

#### **CHEMICAL ENGINEERING**

NISARGENDU H BHATT

Experimental and Numerical Investigation of Different Methodologies for the Enhancement of High Mass Flux Spray Evaporative Cooling

SAYANTANI SIKDER

Abatement of Chromium (VI) and Mobilization of Selected Pollutants Including Cr(VI) in Aquatic Food Chain

SUSHREE RITU RITANJALI

Synthesis and Characterization of Anisotropic Nanostructures of Noble Metals (Au, Ag) for Enhanced Optical and Catalytic Applications

SWAYAM PRABHA MISRA

Numerical Study of Power-law Fluid Flow and Heat Transfer in a Channel with Periodically Upper and Lower Walls Mounted Obstacles

#### **INDUSTRIAL DESIGN**

MD MOSARRAF HOSSAIN

Investigation on Electromagnetic Welding (EMW) for Tubular Jobs using FEA

MONALISHA SATAPATHY

Simultaneous Estimation of Speed Dependent Dynamic Parameters and Residual Unbalances in Rotor-Bearing-Coupling Systems

#### **MECHANICAL ENGINEERING**

PRANJAL BHUYAN

Effect of Operating Conditions, Lobe-number, Clearance Size and Rotor Profile on the Transient Hydrodynamics, Heat Interaction, and Performance of a Root Blower

#### **MINING ENGINEERING**

PRITHIKA DAS

Development and Characterization of Composites filled with Coal Mine overburden Material and other Industrial Wastes

RAMMOHAN PERUMALLA

Application of Fuzzy Logic for Prediction of Roof Fall Area in the Goaf in Coal Mines

## MASTER OF TECHNOLOGY

### BIOTECHNOLOGY & MEDICAL ENGINEERING

#### Biomedical Engineering

Amrutha V  
Aparna M  
Aradhana Singh  
Gitika Yadu  
Kirti Anand  
Namasivaya Naveen S  
Sabir Hossain  
Soumanti Das  
Vivek Soni

#### Biotechnology

Kaustuv Das  
Krishna Kalyani Sahoo  
Kriti Gupta  
N.jeyashree  
Pooja Pabari  
Pritha Paul  
Rushikesh Rupchandrarao Fopase  
Suparna Mal  
Swagathnath Gopinath  
Uma. R  
Vivekanand

### CIVIL ENGINEERING

#### Geotechnical Engineering

Akhila V  
Anshumali Mishra  
Anshuman Singh  
Ashutosh Kumar  
Bhagya K

Devasish Sahu  
G Suneel Kumar  
Gobinda Das  
Himanshu Namdeo  
Indraneel Sengupta  
Jonnagiri Chandra Sekhar  
Mithun Mandal  
Prasad Subhash Palsule  
Ritesh Das  
Srikanta Sahu  
Vinay Kumar Singh

#### Structural Engineering

Akash Panigrahi  
Amit Kumar Raj  
Bijoy Krishna Roy  
Gunda Balaji  
Jarapala Rayudu  
Jeeva S  
Lukesh Parida  
Nikhil Semwal  
Philip Luke K  
Ram Ashish Singh  
Randhir Kumar  
Sagar Sangappa Shinde  
Sudipta Dash  
Sunil Kumar Vishwakarma  
Vishal Kumar Mourya  
Vivek Garg  
Yash Sinha

#### Transportation Engineering

Abhisek Roy  
Abhishek Gupta  
Amit Kumar

Chaudhari Saurabh Pramod  
 Devyani Subba  
 Dindukurthi Prasanth Kumar  
 Diptimayee Dalai  
 Gyan Gaurav  
 Jagannath Pattanaik  
 K Chandra Mouli  
 Manaswinee Kar  
 Prashant Kanaujiya  
 Ravi Shankar  
 Rohit Kumar Sharma  
 Shakti Samanta Sahu  
 Sharmili Patro  
 Suryakapa Jaipal Reddy

### **Water Resources Engineering**

Abhishek Kumar  
 Annu  
 Aparna Das  
 Asit Kumar Dandapat  
 Bharat Kumar Vishwakarma  
 Birju Pal  
 Karinki Ravi Kiran  
 Pidathala Sunil  
 Raunak Manoranjan Prusty  
 Ravi Rajesh  
 Renu Dawoochund  
 Ritusnata Mishra  
 Shival Kumar Gurmaita  
 Vishal Sagar Navane  
 Vivek Raj

## **CHEMICAL ENGINEERING**

### **Chemical Engineering**

Ambika Prasad Behera  
 Baddi Prasad

Bhaskor Jyoti Hazarika  
 C D Balaji  
 Prachiprava Pradhan  
 Prateek Kumar Das  
 Saibal Trivedy  
 Soniya Mariya Varghese  
 Subhadip Mitra

### **Safety Engineering**

Ajitesh Mishra  
 Annapurna Adiley  
 Bhanu Narayan  
 Debasis Rout  
 Devanshu Rajput  
 Deveshree Hazra  
 Jayita Dutta  
 Madan Raj C  
 Madanu Ravichandra  
 Manoranjan Sahoo  
 Mousumi Mohapatra  
 Nagasuri Hymavathi  
 Priya Singh  
 Rakhi Singh  
 Sudhanshu Shekhar

## **CERAMIC ENGINEERING**

### **Industrial Ceramics**

Ajay Kumar  
 Ammar Eqbal  
 Ankit Sharma  
 Chava Venkata Appaiah Chowdary  
 Kundrapu Shyam Kumar  
 Pragya Dixit  
 Shubham Kaushik  
 Trinay Mondal  
 Vijayakumar Gundugolanu

## COMPUTER SCIENCE & ENGINEERING

### Computer Science

Chavali Sai Prakash  
 Dasari Ammaji  
 Deepak Kumar  
 Greeshma Vijayakumar  
 Mamta Nag  
 Nitin Kumar  
 Parbati Mahanto  
 Pinkar Roy  
 Rahul Kumar  
 Sachin Verma  
 Shahzad Ahmad  
 Shashank Yeole  
 Sourav Chattopadhyay  
 Tapas Kumar Patra  
 Tisan Das  
 Vijaybhan

### Information Security

Akash Vijaykumar Rathor  
 Amit Dhomne  
 Gitanjali Behera  
 Inapagurthi Chandana  
 Jitendra Pratap Dehury  
 Rahul Kumar  
 Rahul Prasad  
 Rohit Kumar Gupta  
 Shailesh Kumar  
 Sonapuram Zwaladeep  
 Subinita Panda  
 Varinder Kumar  
 Vishnu Priyanka Gujjula

### Software Engineering

Abhishek Kesarwani  
 Ankesh Gautam  
 Bobbiannaik L  
 Deepti Shakya  
 Jaya Shukla  
 Nalamaasa Navya  
 Neha  
 Parul Chak  
 Praneta  
 Ranjit Kumar  
 Ritesh Dhananjay Nikose  
 Rupam Kumari  
 Santoshi Bisht  
 Shubham  
 Sushree Das  
 Suyash Shukla  
 Vijay Chaudhari

### Analytics and Decision Sciences

Aman Shekhar  
 Avijit Chakrabarty  
 Sabyasachi Parida  
 Sagorica Pramanick  
 Sangle Priya Sangram  
 Sushresulagna Rath  
 Thorat Ninad Suresh  
 Vishal Pandey  
 Zapovil Kintso

## ELECTRONICS & COMMUNICATION ENGINEERING

### VLSI Design and Embedded Systems

Abhinav M  
 Asif Hasan  
 Bommana Vijaya Kumar

Jalluri Yaswanth Vamsi Manoj Kumar  
 Kalamati Sudheer  
 Sameer Suman  
 Saurabh Seth  
 Shalini Kamade  
 Sujit Kumar  
 Vikash Kumar

### **Electronics and Instrumentation Engineering**

Amit Kumar Jayaswal  
 Dhruv Rameshchandra Patel  
 Ekhlakur Rahman  
 Jitendra Singh  
 Maddu Chaitanya  
 Neharika  
 Nitin  
 P Raj Kamal  
 Rohit Yadav  
 Shashiranjana Kumar  
 Subhajit Kumar Indra  
 Sukumar Barik  
 Sunnykumar Lalitbhai Mathukia  
 Unni R  
 Uttam Roy

### **Communication and Networks**

Anuradha Tomar  
 Arjya Halder  
 Chandan Kumar Chaman  
 Dhulipudi Krishna Kanth  
 Diksha Bharadwaj  
 Manish Sahu  
 Matla Rakesh  
 Pali Barmate  
 Peddinti Sreekanth  
 Priyanka Maity  
 Punyatoya Routray

Rakesh R  
 Suraj Darigonda Patil  
 Sweta Kumari

### **Signal and Image Processing**

Anusha Parimala  
 Arava Srinivas  
 Bhavana Nilkanthrao Kakde  
 Chukka Ranjith  
 Dandu Amarnatha Reddy  
 Deeksha Thakre  
 Gude Hema Bhimesh  
 Manidipta Roy  
 Mounika Vasimalla  
 Namala Ranjith Goud  
 Sachin Nimbraj Kapgate  
 Sumedh Chandaluri  
 Susmitha Yalamati  
 Swati Bhattacharya  
 Swati Bhawe  
 Tentu Swapna  
 Ulli Srinivasu  
 Vinayak Anil Bandagi  
 Vivek Bopche

## **ELECTRICAL ENGINEERING**

### **Electronic Systems and Communication**

Akash Patnaik  
 Anik Chaudhuri  
 Ankita Singh  
 Anmol Maharana  
 Ashutosh Kumar Yadav  
 Athira A  
 Kotyada Bangarraju .  
 Kshirodra Kumar Bhoi  
 Marella Naresh

Rahul Kumar  
Rohit Kumar  
S Rahul Varma  
Shabnam Choudhury  
Shashank Agrahari  
Shweta Chandra  
Tumma Divya Vani  
Vijith Venugopal

### **Control and Automation**

Apoorva Srivastava  
Botsa Vasanthi Kumari  
Naresh Singh  
Neha Mary Toppo  
Pradeep Kumar  
Rashmi Kumari  
Ravi Kant Visvakarma  
Ritvik  
Sanaboyina Sai Akhilesh  
Shamik Bhattacharyya  
Soham Dineshbhai Delvadia

### **Power Electronics and Drives**

Amarendu Behera  
Banoth Suresh  
Eslavath Lakpathi  
Ketu Pal  
Kilaparathi Praveenkumar  
Kiran Bala Sethy  
Md Tauseef Ahamad Akbar  
Rongali Charanteja  
Sadhu Reddysekhar Reddy  
Soumya Ranjan Behera

### **Industrial Electronics**

Aeturi Panchala Ratnam  
Gyana Manjari Sahoo

Harish Dora Mongam  
Jyoti Ranjan Dash  
Jyotsna Singh Kharwar  
Kanchi Sunil  
Karaka Nageswara Rao  
Kiran Kumar Nayak  
Mohamed Shafeeq K  
Myneni Sukesh Babu  
Umesh Dhanuk  
Virendra Kumar Painkara

## **INDUSTRIAL DESIGN**

### **Industrial Design**

Abhilash P  
Aman Kumar  
Anurag Tiwari  
Deo Kiran  
Kalyan Choudhary  
Lalit Suryavanshi  
M B L Saraswathi  
Muppalla Dileep  
Narendra Singh  
Nishant Kumar Singh  
Rakesh D  
Ravish Sharma  
Shinde Digamber Baliram  
Shivcharan Kumar  
Sonawane Atul Anil

## **MECHANICAL ENGINEERING**

### **Machine Design and Analysis**

Abhijeet Singh Chouhan  
Abhishek Patra  
Avinash Kumar  
Biren Kumar Pradhan



Biswajit Sahoo  
 Chaudhari Rohit Prashant  
 Chetankumar B  
 Devender Singh  
 Devendra Kumar Manhare  
 Gaurav Jaiprakash Singh  
 Himanshu Rawat  
 Mahendra Kumar Swain  
 Prashik Malhari Ramteke  
 Pullak Pradhan  
 Satyabrata Nayak  
 Shivam Upadhyay  
 Vivek Pratap Singh

### **Production Engineering**

Adarsh Dhananjay  
 Amit Kumar Praharaj  
 Anshuman Kumar  
 Bijaya Kumar Padaseti  
 Binay Kumar Paul  
 Biswajit Dey  
 Chinmaya Kumar Padhee  
 Dipak Tanaji Waghmare  
 Madhusmita Sahu  
 Mahajan Vaibhav Mansaram  
 Manoj Kumar  
 Nimai Haldar  
 Omkesh Dinu Gatifane  
 Praveen Kumar Nayak  
 Ritesh Prasad  
 Subhajit Singh  
 Vinay Bondada

### **Thermal Engineering**

Aswin Jagadeesh A  
 Avinash Swar  
 Bibhu Bhusan Sha

Binay Krishna Sarkar  
 Gati Ranjan Parida  
 Manish Kumar Bharti  
 Mohammad Tabish Siddiqui  
 Nirmal Charan Mallick  
 Prashant Gupta  
 Rajat Choudhury  
 Rakesh Rajan Nayak  
 Sagar Kumar Jalli  
 Shashank Arora  
 Surendra Prasad Yadav

### **Cryogenic and Vacuum Technology**

Aadhithiyan A K  
 Abhishek Kumar Singh  
 Akash Kumar Sahu  
 Anil Kumar  
 Anita Behera  
 Anuj Kumar Goel  
 Bhanu Chandar Pagidipalli  
 Chandan Nashine  
 Debasis Parhi  
 Desouza Isaac Ivo  
 Diptimayee Pradhan  
 Dravida Krishnatreya  
 Gunamani Sahoo  
 Koustubh Dhananjay Bhosarkar  
 Kukkarasi Ramana  
 Madhu Kalyan Reddy Pulagam  
 Prashant Mahesh Vimal  
 Pratik Santosh Bhansali  
 Vivek Kumar Mishra

### **Plastics, Composites and Timber Engineering**

Abhijeet Ghosh  
 Arijit Das  
 Bipin Kumar Chaurasia

Gajbhiye Ashish Shamrao  
Kanchan Roy  
Lopamudra Mohapatra  
Pritish Kumar Nayak  
Saisarthak Behera  
Sujaykhosh S  
Ved Prakash  
Vikas Gavel  
Vikash Kumar

## **METALLURGICAL & MATERIALS ENGINEERING**

### **Metallurgical and Materials Engineering**

Abhinav Omprakash Fulmali  
Annam Dinesh Kumar  
Azmeera Srinivasanaik  
Bharath Kumar Yadlapalli  
Deepak Singh Dohare  
Deepankar Pattnaik  
Goudu Ravi Kiran  
Kattaguri Rani  
Kishore Kumar Behera  
Malaya Kumar Debta  
P Venkat  
Pallavi Gupta  
Sarathak Verma  
Sunil Kumar Yadav  
Vikram Rambhau Talekar

### **Steel Technology**

Aman Kumar Jha  
Biplab Behera

Deepak Yadav  
Divyank Patidar  
Gainendra Kumar Dewangan  
Madhav Singh Solanki  
Moyye Devi Prasad  
Nikhil Jindal  
Pradeep Kumar Prajapati  
Rajnish Kumar  
Rohit Singh  
Sai Venkat Ravi Kishor Midathada  
Sandeep Kumar Singh  
Sudhanshu Kumar  
Sunil Kumar  
Vivek Prajapat

## **MINING ENGINEERING**

### **Mining Engineering**

Anmol Verma  
Arvind Kumar Chauhan  
Ashwin Pai A  
Ganti Praful Kumar  
Mohit Patidar  
Nitin Sharma  
Phanideep Kallepalli  
Rajan Kumar Gupta  
Reddi Krishna Kumar  
Sarda Sharma  
Vivek Pratap Singh

## DUAL DEGREE (B. Tech & M. Tech)

### CIVIL ENGINEERING

#### M.Tech in Transportation Engineering

with

#### B.TECH HONOURS

Bignya Ranjan Pathi  
Deepak Parmar  
Laxmannagasai Boddu  
Prateek Kar  
Priyanka Padhy  
Rajrani Patra

#### B.TECH 1ST CLASS

Ashutosh Kumar  
Rithesh Shivuni  
Shende Ratnadeep Dnyaneshwar

#### M.Tech in Water Resource Engineering

with

#### B.TECH HONOURS

Piyush Pritam Sahu  
Pratick Kumar Sethi  
Snigdha Sarita Mohapatra  
Utkal Keshari Chand

#### B.TECH 1ST CLASS

Digvijay Singh  
Mohd.abdul Saleem  
Navya Reddy Vn  
Patel Ajmal Rafique  
Sagar Bhatnagar  
Sambit Kumar Behera

### CHEMICAL ENGINEERING

#### M.Tech in Chemical Engineering

with

#### B.TECH HONOURS

Asit Padhiary  
Shweta Sonal Mishra  
Soumya Sucharita Sahoo

Sunkar Vivek Kumar

Suryakant Pradhan

Vishal Vasudevan

#### B.TECH 1ST CLASS

Aravilli Sriharsha

Rachael Jovita Barla

#### B.TECH 2ND CLASS

Surya Prakash Rohin

### CERAMIC ENGINEERING

#### M.Tech in Industrial Ceramics

with

#### B.TECH HONOURS

Nishit Kumar Sadual  
Preeti Jani  
Subhra Sourav Jana  
Sushree Sangita Priyadarsini

#### B.TECH 1ST CLASS

Dibyendu Kumar Sahoo  
Gopinath M  
Lakshaman Kumar  
Vattepu Vijay Sandeep

### COMPUTER SCIENCE & ENGINEERING

#### M.Tech in Computer Science & Engineering

with

#### B.TECH HONOURS

Amartya Majumdar  
Aryaman Gupta  
Ashish Kumar Samal  
Saumya Sambit Acharya  
Srotaswini Sahoo  
Sugyani Mahapatra  
Tarun Kedia

### **B.TECH 1ST CLASS**

Ramkrushna Pradhan  
Siddhartha Narayana  
Tallapally Dharahas

### **M.Tech in Information Security** **with**

### **B.TECH HONOURS**

Seemran Mishra  
Sidharth Behera  
Y J Priyanka

### **B.TECH 1ST CLASS**

Ayush Pradhan  
Chamakuri Bharat  
Dinesh Kumar Naik  
Ishaan Dali  
Parag Karbasayya Swami  
S Sai Sri Harsha  
Sonu Kumar Saini  
Soumya Prakash Behera  
Subrat Kumar Pradhan  
Vankayala Manikanta

## **ELECTRONICS & COMMUNICATION ENGINEERING**

### **M.Tech in VLSI Design and Embedded Systems**

### **with**

### **B.TECH HONOURS**

Ajay Malepati  
Asmita Padhi  
Nikhil Kumar Patwari  
Prasanmit Nath  
Rupali Patra  
Saurabh Sharma  
Snehlata Sinha

### **B.TECH 1ST CLASS**

Pooja Singh  
Sourodeep Dey

### **M.Tech in Communication and Networks** **with**

### **B.TECH HONOURS**

Dipam Chakraborty  
Priyanka Priyadarshini Sahoo  
Sidhanta Ranjan Sahu

### **B.TECH 1ST CLASS**

Ajit Kumar Behera  
Anurag Patnaik  
M V Krishna Sarath  
Naik Shubhangi Bhimsen  
Prashant Behera  
Rohit Sigamani  
Shashi Kumar  
V Sai Deep  
Venketesh Mahapatra

## **ELECTRICAL ENGINEERING**

### **M.Tech in Electronic Systems and Communication**

### **with**

### **B.TECH HONOURS**

P Ankita Dora  
Rahul Kumar Mandal  
Siddhartha Shankar Behera

### **B.TECH 1ST CLASS**

Bharat Chandra Sahu  
Goura Gobind Padhi  
Naveen Kumar Rai  
Prasant Kumar Behera

### **M.Tech in Control and Automation**

### **with**

### **B.TECH HONOURS**

Kishore Kumar Patri  
Prakash Kumar  
Preetish Kumar Jena  
Satwik Mohanty

**B.TECH 1ST CLASS**

Chiriki Praveen Raj  
 Dave Meet Dipenbhai  
 Gyandeep Mundary  
 Payal Sharma  
 Sourav Kumar Sahoo  
 Yash Sharma

**M.Tech in Power Electronics and Drive  
with****B.TECH HONOURS**

Pranab Kumar Dhal  
 Shubhangi Jha

**B.TECH 1ST CLASS**

Amitkumar Das  
 Chinmaya Kumar Meher  
 Kriti Raj  
 Lakshmi Priya Gandla  
 Pridhvi Chinta  
 Rishab Airan  
 Sambhit Surabhit Naik  
 Somasekhar Reddy

**MECHANICAL ENGINEERING****M.Tech in Mechatronics and Automation  
with****B.TECH HONOURS**

Animesh Kumar  
 Mahammad Sajidur Rahman  
 Sambit Sahoo  
 Shaktikanta Biswal

**B.TECH 1ST CLASS**

Abodid Sahoo  
 Gaurav Naha  
 Jewson Daimary  
 Mukesh Sethy  
 Rahul Rathore  
 Rajat Vishwakarma  
 Saswat Mishra

**METALLURGICAL &  
MATERIALS ENGINEERING****M.Tech in Metallurgical and Materials  
Engineering****with****B.TECH HONOURS**

Abhijeet Anand  
 Binaya Kumar Dash  
 Bushra Negar Alam  
 Poulami Banerjee  
 Sureddy Tejanath Reddy

**B.TECH 1ST CLASS**

Gaddam Vishal  
 Gopal Krishna Behera  
 Pruthwiraj Behera  
 Rajib Sahoo  
**B.TECH 2ND CLASS**  
 Undru Prasanna Ravi Teja

**MINING ENGINEERING****M.Tech in Mining Engineering  
with****B.TECH HONOURS**

Ainesh Panda

**B.TECH 1ST CLASS**

Amarendra Sahoo  
 Asarapalli Sandeep Kumar  
 Gourav Kumar Parmar  
 Puppala Manoj  
 Rahul Kumar

**B.TECH 2ND CLASS**

Raju Prasad

## INTEGRATED MASTER OF SCIENCE [WITH BACHELOR OF SCIENCE]

### CHEMISTRY

#### 1ST CLASS M.SC. + 1ST CLASS B.SC

Amit Kumar Nayak  
B.susrisweta  
Bharath A B  
Bikas Kumar Katual  
Deblina Roy  
Joga Sammaiah  
K Sai Shradha Reddy  
Khusboo Khatun  
Malpath Shraddha Kusum  
Medha Rath  
Neha Patnaik  
P Sai Rohit  
Pallerla Rajanish Reddy  
Pradyumna Kumar Chand  
Prama Priti  
Rajeswari Das  
Rituparnna Mishra  
Ruchi  
Sangram Keshari Mohanty  
Sudeep Sarkar  
Sweta Silpa Mohapatra  
Ved Prakash  
Vinay Kumar Edukoju

#### 2ND CLASS M.SC. + 1ST CLASS B.SC

R.Midhun Krishna

#### 2ND CLASS M.SC. + 2ND CLASS B.SC

Bharat Chandra Deheri  
Biswajeet Chhatria

Chinmaya Behera

D Sadhana

Jayanta Kumar Murmu

Milkuri Vinay Kumar

### LIFE SCIENCE

#### 1ST CLASS M.SC. + 1ST CLASS B.SC

Abhinandan Patnaik  
Arra Abhinay  
Biswa Bhusana Mahapatra  
Ruchika Nayak  
Seetha  
Sheetal Sahu  
Sripathi Rajachandar  
Swapnatoya Panda

### MATHEMATICS

#### 1ST CLASS M.SC. + 1ST CLASS B.SC

Abhijeet Kumar Dutta  
Bhaskar Behera  
Chowdary Umair Mukhtar  
Deepak Kumar Sahu  
Gauree Kiran Wathodkar  
Happy Kumar  
K Vikas  
Maddu Kavya  
Mohammad Riyaz  
N Krithika  
Phalguni Nanda  
Rajashekar Yadav K  
Sishu Shankar Muni

Sucharith Thoutam  
Swadhin Prasad Sahoo  
Tejeswar Pradhan

**2ND CLASS M.SC. + 1ST CLASS B.SC**

Manish Kumar

**PHYSICS**

**1ST CLASS M.SC. + 1ST CLASS B.SC**

Ankit Dhaka  
Ankit Yadav  
Anuj Mishra  
Anwesha Mohanty  
Aritra Sinha  
Asmita Priyadarshini  
Astik Kumar Dalai

Aswin S  
Bharathiganesh D  
Junaid Majeed Bhat  
Jyotsna Patra  
Kotla Surya Rohith  
Koustav Chandra  
Koyal Suman Samantaray  
Prabhat Pradipta  
Rebbagondla.sravya  
Satyasiddha Dash  
Sidhartha Nayak  
Sumanta Kumar Sahoo

**2ND CLASS M.SC. + 2ND CLASS B.SC**

Bhaskar Chandra Moharana

## MASTER OF SCIENCE

### APPLIED GEOLOGY

#### FIRST CLASS

Aishwarya Nanda  
Akash Maitra  
Anip Topno  
Avipsa Behera  
Gourahari Dasgoswami  
Ipsita  
Josabanta Jani  
Jyotirmaya Mishra  
Manoranjan Mahanta  
Mayank Kumar Gupta  
Nihali Baruah  
Omkar Narayan Behera  
Pallav Jyoti Saikia  
Probir Mondal  
Rakesh Kumar Parida  
Salini Mandal  
Samaya Kumar Mohapatra  
Satyambad Patra  
Sayak Ray  
Somya Ranjan Mallick  
Subham Praharaj  
Subhashree Subhrasmita Sahoo  
Subhransu Sekhar Rout  
Sushree Sasmita Sahoo  
Yagyan Arapita Sahoo

### ATMOSPHERIC SCIENCE

#### FIRST CLASS

Aman Kumar Thakur  
Ankur Kumar  
Arvind Rajendra Pagire  
Bharti Pathak  
Bijaylaxmi Sahoo  
Danish Husamuddin Ashfaq Saifuddin Taji

Jiteshwar Dadich  
Krishna Varati Panda  
Oliva Kusum Tigga  
Sramana Neogi  
Utkarsh Verma

### CHEMISTRY

#### FIRST CLASS

Anish Chakraborty  
Arun Prajapati  
Devendra Kumar  
Kuldeep  
Malay Raul  
Mansi Pahuja  
Mohan Tanti  
Nilakshi Deka  
Niraj Verma  
Nitesh Kumar  
Pankaj Kumar Samal  
Piyush Chawla  
Rohit Kumar  
Rupesh Kumar  
Shib Shankar Paul  
Sonali Panigrahy  
Sourav Ranjan Pradhan  
Sritin Ghosh  
Subhasis Chattopadhyay  
Subhradip Kundu  
Suraj Kumar Patel  
Vikas Kalyani

### LIFE SCIENCE

#### FIRST CLASS

Ahana Majumder  
Asmita Biswas  
Dharavat Bhagavathi



Dileep Singh  
 Jugal Kishor Sahu  
 Kanimela Keerthipriya  
 Moumita Chanda  
 Nikhil Kanik  
 Nilesh Kumar Meher  
 Nipu Kr Das  
 Prakash Kumar Biswal  
 Rakshin Malik  
 Savita Pradeepkumar Gupta  
 Sheary Somam Tete  
 Sheetal Agarwal  
 Shubhashini Sahu  
 Sudeshna Roy  
 Sunayna Behera  
 Swati Kumari  
 Trisha Kundu  
 Venu Bhushan Pandit

## MATHEMATICS

### FIRST CLASS

Akash Kumar  
 Ankita Das  
 Arvind  
 Kalyan Barman  
 Kamlesh Raghuwanshi  
 Kapil Kumar Garg  
 Lakshi Ram  
 Lokesh Kumar  
 Manish Kumar Sahu  
 Mansi Devi  
 Mukesh Kumar  
 P Laasya Vimal Ratna  
 Payal Vijay  
 Pranvendra Kumar Vyas  
 Priya Chaudhary  
 Pushkal Kumar  
 Rathod Kaushikkumar Thakorbhai  
 Subhendu Bouri

Swapnil Nanda  
 Vertika Shukla

### SECOND CLASS

Nabakishore Nayak

## PHYSICS

### FIRST CLASS

Abhinav Mahapatra  
 Ashutosh Dubey  
 Balram  
 Bharat Gangwar  
 Devasish Nayak  
 Dipanwita Mitra  
 Divyanshu Rathi  
 Jyoti Bisht  
 Mohit Chaudhary  
 Natesh Subhedar  
 Pooja Punetha  
 Purushottam Sahu  
 Raveena Khan  
 Sanjib Sau  
 Santosini Patra  
 Satyabrata Datta  
 Subhadeep Dasgupta  
 Sulav Ghosh  
 Vatsana Tiwari  
 Vekaria Brijesh Dharmendrabhai

### SECOND CLASS

Anubhab Sarkar  
 Ashutosh Anand  
 Deepak  
 Lalatendu Keshari Mahapatra  
 N.jagadishwar Kumar Rao  
 Sarojini Behera

## MASTER OF ARTS IN DEVELOPMENT STUDIES

### FIRST CLASS

Deepak Kumar  
Jyotsnarani Dash  
Satabdi Roy  
Shreya Ghosh  
Subhasree Boity

## MASTER OF BUSINESS ADMINISTRATION

### FIRST CLASS

Abhishek Kumar  
Anil Kumar Behura  
Ankita Jena  
Ankita Mohanty  
Anurag Bodhak  
Arindam Bhattacharjee  
Ashis Kumar Sarangi  
Ashutosh Swain  
Avanish Tiwari  
Avinav Bardalai  
Barsha Panda  
Bibhuti Bhusan Panda  
Deepak Kumar Kushwaha  
Dipankar Dash  
Gouri Shankar Giri  
Lokesh Patel  
Navneet Das  
Neha Thakur  
Pratik Sejpai

Pravash Kumar Jena  
Pritish Mohanty  
Priyanka Senapati  
Rahil Mohammad  
Ram Prasad Swain  
Sai Prakash Sahu  
Sambit Biswal  
Sambit Prakash Ojha  
Sandeepan Deb  
Satish Sahu  
Satyabrata Barik  
Satyabrata Das  
Sidharth Panda  
Soumya Ranjan Pattnaik  
Sunil Nandi  
Surya Chandra Prakash  
Surya Prakash Rout  
Sushree Shweta Panda  
Twinkle Ojha

## BACHELOR OF TECHNOLOGY

### BIOMEDICAL ENGINEERING

#### HONOURS

Aditi Acharya  
Archana Rath  
Pranjali Mishra  
Megha Satpathy  
Reddy Vamsi  
Seemadri Subhadarshini

#### FIRST CLASS

Abhinash Bhagat  
Ankita Sunadhar  
Anup Sunni Routray  
Aranyak Swain  
Chettipally Nikhil  
Debashis Behera  
Deepsundar Sahoo  
Mahankali Amruthavarshini  
Manabendra Mahanta  
Siddharth Subham  
Sujitha Jayaraj  
Venkata Kaushik Buddha  
Vineet Chaudhary

#### SECOND CLASS

Smruti Ranjan Panipatra  
Vibhuti Kumar

### BIOTECHNOLOGY

#### HONOURS

Anwasha Acharya  
Arunesh  
Ashapriya Mohapatra  
Neha Gupta  
Nitya Kumari

Paluri Monica  
Subhadarshini Mullick  
Swastik Panda  
Tejaswini Karra

#### FIRST CLASS

Amit Kumar  
Anup Kumar Mittal  
B Narsing Rao  
Bandhuchode Narendar Raja  
Bhagwat Prasad Shukla  
Chitta Ranjan Sahu  
Debasish Dhal  
Durgempudi Varsha Reddy  
M.eswar Rao  
Megha Agarwal  
Rabish Singh  
Satyam Ahirwar  
Shubham Singh Sengar  
Shweta Das  
Yennam Tejaswini

#### SECOND CLASS

Shibu Prasad Behera  
Mohammad Akmal Zeeshan

### CERAMIC ENGINEERING

#### HONOURS

Abhipshit Kumar  
Dibya Darshan Barik  
Jasheel Irshad  
Minu Chettry  
Mruganka Sekhar Mishra  
Shubham Prakash  
Siddharth Senapati  
Subhashree Sethi  
Subhasish Sahu

### **FIRST CLASS**

Anurag Sahu  
Dharavath Mahesh Nayak  
Himanshu Singh  
Jitendra Kumar Sahoo  
K Gowtham  
Kudiramurthy Anirudh  
Mukesh Kumar Apat  
Nirakar Sahu  
Prananjay Ekka  
Priyabrata Tarai  
Pusarla Sri Harsha  
R. Mohith Chowdary  
Rahul Gupta  
Rajesh Behera  
Subhasish Nayak  
Suraj Varma  
Swetoja Patel  
Umesh Kumar Behera

### **SECOND CLASS**

Balaga Aravind Bhaskar  
Vishal Kumar

## **CHEMICAL ENGINEERING**

### **HONOURS**

Abhipsa Nayak  
Anusmita Saha  
Aratrika Ghose  
Digant Nayak  
Diksha Agarwal  
Jisha Bhattacharjee  
Karri Deepika  
Lekkala Jaya Sree  
Lipika Sahoo  
Manjeet Kumar  
Md Abu Talha  
Nalla Saranya  
Nargis Jahan

Padmalochan Sahu  
Sandra Jagadeesh  
Swagat Mohanty  
Tirumareddy Priyanka  
V V S B Radha Krishna Borusu

### **FIRST CLASS**

Abhipsa Naik  
Aditya Rajhans  
Agnivesh Tripathy  
Andrew Jose Ignatius Milton  
Ankur Omprakash Pandey  
Ayila Jaswanth  
Azad Tayal  
Banoth Yathin Naik  
Bijay Kumar Jena  
Birkishor Sahoo  
Brahmananda Mahapatra  
Debasis Acharya  
Dodla Karthik Reddy  
Doyel Sinha  
Jainendra Singh  
Jashobhan Pradhan  
Kadagala Surendra Naidu  
Mahaveer T  
Naupada Siva Prasad  
Pandurangi Swetha  
Payal Agrawal  
Puritipati Vishal Reddy  
Sanjeev Hembram  
Shasanka Sekhar Thait  
Shubham Kumar Mishra  
Sidharth Khatua  
Snehlata Das  
Subrat Kumar Meher  
Tarini Prasad Bhol

### **SECOND CLASS**

Anudyouti Samantaray  
Gumpula Sathvik

**CIVIL ENGINEERING****HONOURS**

Abhiram Chebrolu  
 Aman Agarwal  
 Areti Soumya  
 Bikash Kumar Kanhar  
 Jyotiranjana Sahoo  
 M.g. Subarna Mohanty  
 Naran Hembram  
 Neerukonda Sri Venkata Sai  
 Nishant Thacker  
 Om Prakash Behera  
 Pagoti Ajay Kumar  
 Poorva Singh  
 Potnuru Sarika  
 Prabhu Chandan Das Bebartta  
 Priyanka Sahoo  
 Rajesh Kumar Swain  
 Smruti Soumya Swain  
 Soumendra Priyadarshree Barik  
 Subham Barelia  
 Surabhi Bhuyan

**FIRST CLASS**

Abhisek Bindhani  
 Aditya Parasar  
 Aditya Prakash  
 Anthathi Yashwanth Kumar Goud  
 Gudisa Vamsi Krishna  
 Ibrahimullah Fida  
 Jhasketan Behera  
 Kshitij Rathore  
 Mahesh Kumar Durga  
 Malla Jagadeesh  
 Mohammad Zakria Mohammadi  
 Naik Mohammad Masoodi  
 Nikhil Kumar  
 Rajat Jain

Salah Rageh Haithm Hussein  
 Sangeetha Annepu  
 Subhay Kumar  
 Swastik Kumar Rath  
 Thejaselhou Kire

**COMPUTER SCIENCE AND ENGINEERING****HONOURS**

Abhilash Kabi  
 Abhishek Sai Shukla  
 Aditya Sai Kandukuri  
 Akash Saha  
 Alolika Gon  
 Amrita Tripathy  
 Asmita Poddar  
 Astitva Srivastava  
 Attaluri Lohit Siva Saketh  
 Atulit Kumar  
 Bhashaboina Anil Kumar  
 Deepika Agrawal  
 Deepika Velivela  
 Dibya Ranjan Mishra  
 G Sai Nikitha  
 Kamal Agrawal  
 Kesari Himaja  
 Kokkalla Kalyan  
 Koshal Kumar Garg  
 Monik Raj Behera  
 Paluru Krishna Chaithanya  
 Prateek Pradhan  
 Rahul Padhy  
 Rajendra Varma Pusapati  
 Rohit Suri  
 Sambit Mahapatra  
 Sankalp Raj  
 Sasank Sekhar Panda  
 Shaswati Sagarika  
 Sitesh Pattanaik

Sonali Agrawal  
Surya Prakash Sahu

### **FIRST CLASS**

A.s. Arundhati Routray  
Abinash Panigrahi  
Adabala Shanmukha Satya Sairam  
Aishwarya Shrestha  
Akankhya Behera  
Amit Kumar Manjhi  
Anand Sai Mishra  
Anurag Mohanty  
Ashish Manatosh Barik  
Atish Adhikari  
Baddegamage Wansaja Miyuru Yugantha Perera  
Badugu Chandra Sekhar  
Binay Kumar Sahoo  
Chandan Kumar Barik  
Deepa Kumari  
Gudivada Sunil  
Jyotiprakash Jena  
Jyotirmayee Padhan  
Jyotirmoy Ghose  
Katchi Akhila Teja  
Kuldeep Singh  
Lakkimsetty Satya  
M Shalem Raju  
M Vijay Kumar  
Md Tasnim Alam  
Nali Naveen  
Prity Hansda  
Priyanka Prasad  
Priyansi Parida  
Raja Raghavendra Karthik  
Rayudu Satya Sai Chandu  
Roshni Biswas  
Shailvi Kumar  
Shrijan Dongol  
Shuvankar Mishra  
Sonali Patro Polaki

Dhulipala Ravi Teja  
Divya Rani Lakra  
Suvam Suvabrata Behera  
Vaishnavi Sai Tejaswini Pammi  
Voora Swetha  
Yashwanthini Reddy M

### **SECOND CLASS**

Alok Dung Dung  
Ananya Ghosh Banya  
Ankit Bilung  
Anshuman Parihari  
Arjun Meena  
Sumit Kumar Shah  
Vikas Pampari

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

### **HONOURS**

Aditya Rout  
Amit Kumar Sa  
Barsha Pradhan  
Chinmay Mohanty  
Debashisa Swain  
Diptarghya Santra  
Gullipalli Susmitha  
Jashaswini Bhuyan  
Kesana Varun  
Lavanya Gangavarapu  
Namballa Vamsi Bharadwaj  
Samika Datta  
Sampara Sai Pavan  
Shubham Kumar Naik  
Sibasish Mohanty  
Siddharth Pujari  
Subhankar Sharma  
Tedlapu Jaya Kumar

### **FIRST CLASS**

Asish Kumar Agarwalla  
 Badam Venkata Madhuri  
 Bhukya Sai Nagendra  
 Bikrant Ray  
 Jashabanta Palasi  
 Jitesh Kumar  
 Kommanapalli Madhu Venkata Sai Durgaprasad  
 Kshitish Chandra Dehury  
 Manashavi Raghav  
 Marella Doleswara Chandu  
 Punyaja Dash  
 Shrutika Atal  
 Sonali Sethi  
 Swetabja Hazra  
 Teeviraj Janki

### **SECOND CLASS**

Omkar Priyadarsan  
 Sagar Rajak

## **ELECTRONICS AND INSTRUMENTATION ENGINEERING**

### **HONOURS**

Amrutnarayan Panigrahi  
 Ananya Arunima  
 Ankita Priyadarshini  
 Anthireddygari Maheshwari  
 Ardhendu Sekhar Routray  
 Asutosh Behera  
 Bikash Kumar Sahoo  
 Debasish Khadanga  
 Mahesh Kumar Guin  
 Panyala Vamshidhar Reddy  
 Pothuru Purushotham Naidu  
 Prabhat Kiran  
 Rudra Madhab Ray  
 Salman Siddique Khan  
 Saswat Parida

Smruti Kalia  
 Vikash Singhal

### **FIRST CLASS**

Akash Kumar Mohanta  
 Ashish Morla  
 Chappa Meher Vamsi  
 Chintalapally Subhahu Reddy  
 Debadip Narayan Choudhury  
 Naveen Kumar Vadthya  
 Nihar Ranjan Behera  
 Omkar Choudhury  
 P Nishanth Reddy  
 Palavai Kalyan Harshavardhan  
 Pedasingu Jyotsna Sri Sai Madhuri  
 Pragya Shree  
 Priyadarsani Suchismita Jena  
 Rebbana Sai Srihas  
 Reema Soreng  
 Sarthak Kumar Giri  
 Somala Yaswanth Pushpak  
 Susanta Kumar Behera

### **SECOND CLASS**

Nizampatnam Siva Krishna  
 Vipparthi Vamsi Prakash

## **ELECTRICAL ENGINEERING**

### **HONOURS**

A M Akankshit  
 Abhishek Panda  
 Akash Sahoo  
 Amit Kumar Maurya  
 Amit Kumar Pal  
 Amrit Mohapatra  
 Anubhab Ghosh  
 Chinmayee Nanda  
 Eesha Mohanty

Gagan Kumar Sahu  
Kurapati Prathyusha Rangavalli  
Padmanav Mishra  
Palla Arun  
Nilanshu Kumar Mandal  
Prathyusha Allu  
Pratikshya Padhi  
Pritiranjana Pradhan  
Puvvada Tarun Mukesh  
Roumya Ranjan Behera  
S S Phani Teja Tangirala  
Sambeet Sahoo  
Sanchari Dan  
Saswat Priyadarshi Nayak  
Smarak Lenka  
Subhajeet Swain  
Sukumar Samal  
Suraj Kumar Sahu  
Suraj Rout  
Surjeet Sarangi

### **FIRST CLASS**

Animesh Panda  
Azmeera Harshith Kumar  
Azmeera Sai Nikhitha  
Bachala Prudhvi  
Banda Priyanka  
Binayak Behera  
Chandan Kumar Aman  
Daparthi Dedeepya Divya  
Dikesh Kumar  
Gandreti Gowri Ganesh  
Ganivada Ramu  
Golla Sushma  
Jeeban Jyoti Sahoo  
Kontham Naveen Reddy  
Lopamudra Behera  
M. Siva Prasad  
Mamata Tirkey  
Nallamilli Suryasree

Nuthakki Soujanya  
P. Raghudeep  
Peruka Teja  
Rasmita Bariha  
Sameer Barik  
Sameer Ranjan Patel  
Sanjeeb Kumar Patra  
Saswat Abhinab David  
Shaik Salman  
Swetarupa Behera  
Utpanna Hota  
Yeturu Abhilash Reddy

### **SECOND CLASS**

Manas Ranjan Behera  
Zubairullah Enaam

## **FOOD PROCESS ENGINEERING**

### **HONOURS**

Anurita Nidhi Hemrom  
Dipty Narnoli  
Indrani Mohanty  
Neh Jawanpuria  
Poonam  
Sourav Garg

### **FIRST CLASS**

Abhiditya Singh Rawal  
Aman Singh  
Anil Kumar Rana  
Avishek Rath  
Biranchi Narayana Mahapatra  
Kokku Saran  
Kumar Shanu  
Kummari Praveen Kumar  
Mayam Kumar  
Puskar Mishra  
Rajnandan Kumar  
Sanu Kumar Kaithal



Sikha Prasanna Kumari  
Snehasish Nayak  
Vanapalli Kiran Kalyan Deep  
Vijay Prakash

## INDUSTRIAL DESIGN

### HONOURS

Aditya Kansal  
Ankit Acharya  
Ankit Kumar Mohanty  
Arnav Kumar Tripathy  
Debabrata Patra  
Gupta Aditya Rahul  
Juthuka Sumithra  
K Pushpendu Prashant  
Kakarla Laxmi Jyothi  
Keshav Jalindar Chavan  
Partha Sarathi Minz  
Pratik Padhi  
Shreya Das

### FIRST CLASS

Alluri Siva Tejaswi  
Bhagavanthu B  
Boddapati Eswara Chandra  
Kuthum Abhishek  
Patchala Naveen Kumar  
Pathivada Nithin Raja  
Pulivarthi Daniel  
Ruttala Sridharani  
Sanku Vamsi Swaroop  
Shubhashree Sahu  
Subham Das  
Suresh Kumar  
Velutury Ashwa Vardhan

## MECHANICAL ENGINEERING

### HONOURS

Abhijeet Behera  
Abhisek Datta  
Abhisek Khadanga  
Abhratej Sahoo  
Arpan Kumar Padhi  
Ashish Ujjwal  
Asimanshu Das  
Ayan Roy Naskar  
Ayyalasomayajula Akhil  
B Shankar Patro  
Bhawna Bharati  
Bibek Sahu  
Ch. Rewant  
Debapriya Chhotray  
Deepak Kumar Barik  
Devidutta Sahoo  
Dibyajyoti Behera  
Gandem Surya Kiran  
Gyana Pratap Sahu  
Ipsit Tripathy  
Jogeswar Sahoo  
Jyotirmoy Singh Garbyal  
Kanthala Praveen  
Kiran Kumar Patra  
Maharshi Arindom Sharma  
Manas Ranjan Pattnayak  
Mitesh Mishra  
Moses Prasad Varghese  
Nihar Ranjan Panda  
Omprakash Pradhan  
Padala Sudhisha Reddy  
Penta Akhil  
Prasad Srichandan Dalei  
Preetam Kumar Khuntia  
Pritiranjana Dwibedy  
Punya Plaban  
Rongala Durga Sai  
Roshon Kumar Jena  
Routhu Tarakeswara Rao  
S Balya Krushna Prusty

Saikrishna Muppavarapu  
Sanjay Kumar Behera  
Shaik Ashif  
Shivam Rai  
Sneha Oram  
Soubhagya Nayak  
Sourabh Kumar  
Souvik Biswas  
Sravan Potnuru  
Subrat Kumar Sahoo  
Swaraj Panda  
Sypireddy Heswanth Soor  
Vallem Samara Simha Reddy

### **FIRST CLASS**

Adhil Basheer  
Ajas Muhammed M S  
Arafat Hussain  
Arbind Kumar Gupta  
Bukya Raja  
Chetan Agrawal  
Dasari Mohan Chandra  
Diptesh Marndi  
Gadepalli Akhil  
Habibullah  
Jadhav Chandrashekhar  
Mohammad Yusuf Farooque  
Narendra Narukulla  
Omer Ahmed  
Pilli Sandeep  
Pradeep Kumar  
Rahul Kumar Sah  
Rajalaxmi Sethy  
Rajesh Kavila  
Seelam Sudheer Kumar  
Soubhagya Das  
Soumya Ranjan Das  
Sourav Shri Debabandan Mallick  
Udesb Modi  
Vakada Murali Krishna  
Videm Damodhar  
Vishnumolakala Venkata Satya Chaitanya

### **SECOND CLASS**

Bhabani Shankar Naik

## **METALLURGICAL AND MATERIALS ENGINEERING**

### **HONOURS**

Arun Kumar Pandey  
Ashish Kumar Gouda  
Atanu Prasad Sahoo  
B S K Gargeya  
Batna Srikavya  
Biswajit Biswal  
Chandan Sarangi  
Devendra Prasad Singh  
Ganesh Arepalli  
Anurup Mishra  
Jatin Jain  
K Chandan Rao  
Laxmidhar Majhi  
M. Sivaanantha Karthic  
Mukesh Kumbhakar  
N. Sai Shankar  
Puneet Khandelwal  
Saswat Panda  
Satyakam Kar  
Siddhanta Sekhar Mishra  
Smarak Rath  
Sradha Suman Khuntia  
Subhendra Keshari Sahoo  
Suprit Behera  
Suryakanta Jena  
Tanat Mohapatra

### **FIRST CLASS**

Aditi Raj  
Akula Gayatri Sri Anjani  
Amit Kumar Jena  
Ankit Adarsha Patra  
Chaganti S Sarat Chandra  
Gedela Praveen  
Gonigantala Gangadhara Saivenkat  
Kailash Chandra Meena

Karanam Gururaj  
 Matala Sri Ram Kishore  
 Mekala Bharath Krupa Teja  
 Mintu Kumar  
 Mohit Gupta  
 Prasanti Sahu  
 Rachamreddy Saiteja Reddy  
 Sarky Vinod  
 Soubhagya Kumar Nayak  
 Suryakant Priyadarshan  
 Vendikol Nikhil Kumar

## MINING ENGINEERING

### HONOURS

Akhilesh Kumar Gupta  
 Asim Kumar Satapathy  
 Dinesh Reddy Pappu  
 Manikant Singh  
 Muthyam Akhil  
 Nimish Patnaik  
 Nirvikalp Lokesh  
 Paladugu Yeswantha Durga Pavan Kumar  
 Pratyay Saha  
 Rajeswar Mishra  
 Sk Md Fazal Elahi  
 Tarini Gautam

### FIRST CLASS

Bayyagani Kranthi Kumar  
 Biswajit Pradhan  
 Debasish Nath  
 Deepak Kumar Panda  
 Gona Pradhyumna  
 Jorge Daddy Belarmino Massinga  
 K Bharat  
 Madasu Bala Subrahmanyam  
 Mathala Kranthi Kumar  
 Nirmal Kumar Munda  
 Pattapu Divya Santosh  
 Pratap Keshari Rout  
 Rajat Kumar Dalai  
 Sahoo Dpwick Nicergaw  
 Soumitra Nandy  
 Swadhin Kumar Nayak  
 Teja Gorrela  
 Vanam Mareswara Rao  
 Vangalapudi Achuta Kumar  
 Vikas Raika  
 Yash Soni

## BACHELOR OF ARCHITECTURE

### HONOURS

Arunima Saha  
 Jainaseni Mohapatra  
 Jay Bihani  
 Mandira Karmakar  
 Siddhartha Panigrahi  
 Shubham Mehta  
 Tanushree Biswas

### FIRST CLASS

Apindra Rohidas  
 Biswaprava Sahoo  
 Debanjali Saha

Jwngsar Daimary  
 Karanam Likhita  
 Monica Hembram  
 Namratha Belgutti Shanmukha  
 Pativada Lavanya  
 Prabhudutta Dash  
 Rapaka Chelli Ruth Grace  
 Sampurna Sikdar  
 Sibananda Sahoo  
 Sunil Kumar Prasad  
 Venkata Ravindra Pichikala  
 Vivek V



## राष्ट्रीय प्रौद्योगिकी संस्थानम् राउरकेला

### दीक्षांत - प्रतिज्ञा

सर्वे वयं राष्ट्रीय प्रौद्योगिकी संस्थानस्य स्नातकाः अस्मिन् महार्घे  
महोत्सवे समवेताः शपथमिदं पठामः यत् :-

विविध वैषयिक स्नातकाभियांत्रिकभावेन परमनिष्ठाया त्यागेन च  
सह सदैवं स्व-स्व कर्तव्यं सुचारुः संपादयिष्यामः ।

येन केन परिस्थित्यागतेनापि व्यक्तिगतस्वतंत्रतायाः वृत्तिगत  
मुल्यबोधस्य च संरक्षणाय सततं चेष्टिष्यामहे ।

पुनश्च अत्रोपार्जितं सूचना - प्रयुक्ति यंत्रविज्ञान ज्ञानराशिं च विश्व  
मानवसेवायां नियतं विनियोज्य अस्य अस्मद् महागुरुकुलस्य  
सुचिरं सम्मानमक्षुण्णं रक्षिष्यामरितिशम् ।



## NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

### PLEDGE

We the students of the National Institute of Technology Rourkela graduating in the year 2018, hereby pledge ~

"That we will discharge our duties as Engineers, Scientists and Technologists with utmost sincerity and dedication,

That we will strive under all circumstances to maintain individual dignity and professional integrity, and

That we will utilize our knowledge in the field of Science and Technology to serve the humanity and to uphold the dignity of our alma mater."



## *Medals & Awards*

Note : This list has been approved based on the preliminary verification of records. If in future, ISDC or EDC is detected against any student declared eligible for medal will be ineligible and the student next in the merit will be awarded the medal/prize.

# **XVI Convocation**

## ***Winners of Institute Gold Medals***



**CH. REWANT**

Institute Gold Medal for Best Graduate (B.Tech and B.Arch.)



**MADAN RAJ C**

Institute Gold Medal for the Best Postgraduate (M.Tech.)



**RAJRANI PATRA**

Institute Gold Medal for the Best Postgraduate with Dual Degree B.Tech and M.Tech.



**BHARATH AB**

Institute Gold Medal for the Best Postgraduate with Integrated M.Sc Degree



**TRISHA KUNDU**

Institute Gold Medal for the Best Postgraduate (M.Sc. and MA)



**ANKITA MOHANTY**

Institute Gold Medal for the Best Postgraduate (MBA)



**SHIVAM RAI**

Gold Medal for the Best Under-graduate Project (B.Tech and B.Arch)



**BIBHU BHUSHAN SHA**

Gold Medal for the Best Postgraduate Project (M.Tech and Dual Degree)



**JITESHWAR DADICH**

Gold Medal for the Best Project (M.Sc. Integrated M.Sc. & M.A)





## ENDOWMENT MEDALS



**DIKSHA AGARWAL**

Prof. S.C. Naik Gold Medal for Best Graduate  
of Chemical Engineering



**KAMALINI DEVI**

Snigdhashri Patra Memorial Gold Medal for  
the best Ph.D. Thesis of 2017-18

## DISTINGUISHED ALUMNUS AWARD-2018



**Dr. Swati Mohanty (Academia and Research)**, 1983 Batch B. Sc. (Engg.) Chemical Engineering, a Chief Scientist at CSIR-IMMT, Bhubaneswar, India, who has made significant contributions in the area of process modeling, simulation, optimization, and control.



**Ms. Soma Mondal (Industry and Management)**, 1984 Batch B. E. in Electrical Engineering, who in the capacity of a Member of the Board of Directors of NALCO, and SAIL, has made significant contribution in corporate governance, business planning, domestic and international sales and marketing, logistics, and materials management, in the metals and minerals industries.



**Dr. Om Agrawal (Industry and Management)**, 1968 Batch B. Sc. (Engg.) in Electrical Engineering, for his outstanding contribution to research and product design in the semiconductor industries, particularly in the field of high performance Programmable Logic Devices, while working with AMD, Vantis, and Lattice Semiconductor, USA.



**Mr. Sanjay Mohanty (Entrepreneurship and Public Life)**, 1980 Batch B. Sc. (Engg.) in Electrical Engineering, for his significant contribution to society through entrepreneurship, employment generation, wealth creation, and leadership in scientific aquaculture in the state of Odisha.



## INSTITUTE BRANCH TOPPERS

### 1. UNDERGRADUATE COURSES (B. TECH)

Biomedical Engineering	: SEEMADRI SUBHADARSHINI
Biotechnology	: ARUNESH
Civil Engineering	: JYOTIRANJAN SAHOO
Chemical Engineering	: DIKSHA AGARWAL
Ceramic Engineering	: SUBHASHREE SETHI
Computer Science and Engineering	: ROHIT SURI
Electronics and Communication Engineering	: JASHASWINI BHUYAN
Electronics and Instrumentation Engineering	: AMRUTNARAYAN PANIGRAHI
Electrical Engineering	: ANUBHAB GHOSH
Food Process Engineering	: INDRANI MOHANTY
Industrial Design	: PRATIK PADHI
Mechanical Engineering	: CH. REWANT
Metallurgical and Materials Engineering	: SATYAKAM KAR
Mining Engineering	: NIRVIKAL PLOKESH

### 2. UNDERGRADUATE COURSES (B. ARCH.)

Architecture	: JAY BIHANI
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### 3. B.TECH & M. TECH. DUAL DEGREE

Transportation Engineering	: RAJRANI PATRA
Water Resources Engineering	: SNIGDHA SARITA MOHAPATRA
Chemical Engineering	: VISHAL VASUDEVAN
Industrial Ceramic	: NISHIT KUMAR SADUAL
Computer Science	: TARUN KEDIA
Information Security	: SEEMRAN MISHRA
VLSI Design and Embedded Systems	: NIKHIL KUMAR PATWARI
Communication and Networks	: PRIYANKA PRIYADARSHINI SAHOO
Electronic Systems and Communication	: PANKITADORA
Control and Automation	: SATWIK MOHANTY
Power Electronics and Drive	: SHUBHANGI JHA
Mechatronics and Automation	: SAMBIT SAHOO

Metallurgical and Materials Engineering : POULAMI BANERJEE  
Mining Engineering : AINESH PANDA

#### 4. POST GRADUATE COURSES

##### M. Tech.

##### *Department and Specialization Topper*

##### **Biotechnology and Medical Engineering**

Specialization : Biomedical Engineering : APARNAM  
Specialization : Biotechnology : PRITHA PAUL

##### **Civil Engineering**

Specialization : Geotechnical Engineering : AKHILA V  
Specialization : Structural Engineering : SUDIPTA DASH  
Specialization : Transportation Engineering : MANASWINEE KAR  
Specialization : Water Resources Engineering : VISHAL SAGAR NAVANE

##### **Chemical Engineering**

Specialization : Chemical Engineering : SAIBAL TRIVEDI  
Specialization : Safety Engineering : MADAN RAJ C

##### **Ceramic Engineering**

Specialization : Industrial Ceramics : TRINAY MONDAL

##### **Computer Science Engineering**

Specialization : Computer Science : PINKAR ROY  
Specialization : Information Security : VISHNU PRIYANKA GUJJULA  
Specialization : Software Engineering : JAYA SHUKLA

##### **Electronics and Communication Engineering**

Specialization : Analytics and Decision Sciences : AVIJIT CHAKRABARTY  
Specialization : VLSI Design and Embedded Systems : ABHINAV M  
Specialization : Electronics and Instrumentation Engineering : SUBHAJIT KUMAR INDRA  
Specialization : Communication and Networks : PRIYANKA MAITY  
Specialization : Signal and Image Processing : ULLI SRINIVASU

##### **Electrical Engineering**

Specialization : Electronic Systems and Communication : TUMMA DIVYA VANI  
Specialization : Control and Automation : SHAMIK BHATTACHARYYA  
Specialization : Power Electronics and Drives : KETU PAL  
Specialization : Industrial Electronics : KANCHI SUNIL

**Industrial Engineering**

Specialization : Industrial Design : NISHANT KUMAR SINGH

**Mechanical Engineering**

Specialization : Machine Design and Analysis : ABHISHEK PATRA

Specialization : Production Engineering : CHINMAYA KUMAR PADHEE

Specialization : Thermal Engineering : ASWIN JAGADEESHA

Specialization : Cryogenic and Vacuum Technology : ANIL KUMAR

Specialization : Plastics, Composites and Timber Engineering : VIKAS GAVEL

**Metallurgical and Materials Engineering**

Specialization : Metallurgical and Materials Engineering : BHARATH KUMAR YADLAPALLI

Specialization : Steel Technology : MADHAV SINGH SOLANKI

**Mining Engineering**

Specialization : Mining Engineering : MOHIT PATIDAR

**5. INTEGRATED MASTER OF SCIENCE**

Chemistry : BHARATHAB

Life Science : SWAPNATOYA PANDA

Mathematics : SISHU SHANKAR MUNI

Physics : JUNAID MAJEED BHAT

**6. MASTER OF SCIENCE**

Chemistry : SUBHASIS CHATTOPADHYAY

Applied Geology : AISHWARYANANDA

Atmospheric Sciences : SRAMANANEOGI

Life Science : TRISHAKUNDU

Mathematics : MANSIDEVI

Physics : JYOTI BISHT

**7. MASTER OF ARTS**

Development Studies : SATABDI ROY

## ENDOWMENT AWARDS

### AWARDS

<b>Saurav Ranjan Kar Memorial Award</b> (Best Graduate of the Institute)	: CH. REWANT
<b>Pranab Memorial Award</b> (Best Graduate of Mechanical Engineering)	: CH. REWANT
<b>Bhaswati Paul Memorial Award</b> (Best Project on Environment Pollution)	: No One Found Suitable
<b>Santa Jain Prize</b> (Best product oriented project)	: SHIVAM RAI
<b>Bunty Memorial Award</b> (Best Engineering Graduate of the Institute)	: CH. REWANT
<b>Sugat Kishore Mall Memorial Award</b> (Best Graduate of Electrical Engineering)	: ANUBHAB GHOSH
<b>Prof. Ashok Kumar Mohanty Award</b> (Best All-rounder of Metallurgical and Materials Engineering)	: SATYAKAM KAR
<b>Ronak Das Memorial Award</b> (Best Undergraduate Project of Chemical Engineering)	: JISHA BHATTACHARJEE



# About NIT Rourkela

## MEMBERS OF BOARD OF GOVERNORS

**Dr. Sanrupt B. Misra,**

Chairperson, BOG, NIT, Rourkela &  
CEO, Carbon Black Business  
Director, Group H.R.  
Aditya Birla Management Corporation Pvt. Ltd.  
Aditya Birla Centre, 'C' Wing, 3rd Floor  
S. K. Ahire Marg, Worli, Mumbai-400 030, India  
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| 4. Prof. P.K. Biswas<br>Department of E & ECE Engineering<br>IIT, Kharagpur 721 302<br>pkb@ece.iitkgp.ernet.in                                   | - Member |
| 5. Prof. P. Gahan<br>Department of Business Administration<br>Sambalpur University, JyotiVihar<br>Sambalpur, Odisha- 768019<br>pgahan7@gmail.com | - Member |

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| 9. Prof. N. Roy, CE           | 24. Prof R. Sarkar, CR        |
| 10. Prof. S.P. Singh, CE      | 25. Prof. J. Bera, CR         |
| 11. Prof. S. K. Sahu, CE      | 26. Prof. R.K. Patel, CY      |
| 12. Prof. C.R. Patra, CE      | 27. Prof. R. Dinda, CY        |
| 13. Prof. K.C. Biswal, CE     | 28. Prof. K.K. Mohapatra, EC  |
| 14. Prof. R. K. Singh, CH     | 29. Prof. S. Meher, EC        |
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| 16. Prof.(Mrs.) M. Kundu, CH  | 31. Prof. B. Subudhi, EE      |
| 17. Prof. S. Paria, CH        | 32. Prof. A. K. Panda, EE     |
| 18. Prof.(Mrs.)S. Mishra, CH  | 33. Prof. P.K. Sahu, EE       |
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| 20. Prof. D.P. Mohapatra, CS  | 35. Prof. K.B. Mohanty, EE    |
|                               | 36. Prof.(Mrs.) S. Das, EE    |

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| 38. Prof. S.S. Ray, MA       | 51. Prof. C.K. Biswas, ME      |
| 39. Prof. G.K. Panda, MA     | 52. Prof. S.C. Mohanty, ME     |
| 40. Prof. S. Chakravarty, MA | 53. Prof. S.K. Patel, ME       |
| 41. Prof. K. C. Pati, MA     | 54. Prof. B.C. Ray, MM         |
| 42. Prof. R.K. Sahoo, ME     | 55. Prof. S.C. Mishra, MM      |
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| 44. Prof. S.S. Mohapatra, ME | 57. Prof. S. Jayanthu, MN      |
| 45. Prof. D.R.K. Parhi, ME   | 58. Prof. D. P. Tripathy, MN   |
| 46. Prof. S. K. Sahoo, ME    | 59. Prof. (Mrs.)S. Mohanty, HS |
| 47. Prof. S. K. Acharya, ME  | 60. Prof. S. Panigrahi, PH     |
| 48. Prof. S. Murugan, ME     | 61. Prof. B. Ganguli, PH       |
| 49. Prof. A. Satapathy, ME   | 62. Prof. D. Behera, PH        |

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64. Prof. A. Thirugnanam, HOD, BM
65. Prof. T.K. Dan, HOD, EC
66. Prof. B. Kundu, HOD,ER
67. Prof. R.C. Pradhan, HOD, FP
68. Prof. B.B.V.L. Deepak, HOD, ID
69. Prof. S. Sarkar, HOD, MM
70. Prof. N.R. Mishra, HOD, HS
71. Prof. B. Mallick, HOD, LS
72. Prof. (Mrs.)B.Sarkar, HOD, PA
73. Prof. D.Bag, HOD, SM
74. Prof. S. Behera, CR
75. Mr. K. P. Panigrahi, Asst. Registrar, Academic(Res.)
76. Mr. A.K. Behera, Asst. Registrar (UG & PG)

**E) Student Invitees**

1. Mr. G.P. Sahoo, Roll No.115ME0466 (UG)
2. Mr. N. Suvachintak, Roll No.714EE1073(PG&R)

## SUCCESSIVE LIST OF CHAIRPERSONS, BOARD OF GOVERNORS REGIONAL ENGINEERING COLLEGE ROURKELA

		<u>From</u>	<u>To</u>
1.	<b>Shri Biju Patnaik</b> , Chief Minister, Govt. of Odisha	15-08-1961	19-12-1963
2.	<b>Shri Biju Patnaik</b> , Chairman, Planning Board, Govt. of Odisha	20-12-1963	28-03-1965
3.	<b>Shri Sadashiva Tripathy</b> , Chief Minister, Govt. of Odisha	14-04-1965	07-03-1967
4.	<b>Dr. Hadibandhu Mohanty</b> , Technical Advisor to Govt. of Odisha	07-10-1967	06-10-1973
5.	<b>Shri K. T. Satarwala</b> , Advisor to Govt. of Odisha	07-10-1973	03-05-1974
6.	<b>Shri Kanhu Charan Lenka</b> , Ministry of Industries, Planning & Co-ordination, Govt. of Odisha	04-05-1974	16-02-1976
7.	<b>Shri Kanhu Charan Lenka</b> , Ministry of Industries, Govt. of Odisha	14-01-1977	30-04-1977
8.	<b>Shri Harish Chandra Bauxipatra</b> , Ministry of Industries, Mining, Geology & Rural Department, Govt. of Odisha	06-07-1977	18-02-1980
9.	<b>Shri Kishore Chandra Patel</b> , Ministry of States for Industries, Govt. of Odisha	12-08-1980	08-03-1985
10.	<b>Shri S.B. Mishra</b> , IAS, Commissioner-cum-Secretary, Industries Dept., Govt. of Odisha	06-06-1985	03-01-1986
11.	<b>Shri Jadunath Das Mohapatra</b> , Ministry of Education & Youth Services, Govt. of Odisha	04-01-1986	29-10-1986
12.	<b>Shri Niranjana Patnaik</b> , Ministry of Industries, Science, Technology & Environment, Govt. of Odisha	30-10-1986	16-11-1989
13.	<b>Shri S. B. Mishra</b> , IAS, Secretary, Industries Dept., Govt. of Odisha	17-11-1989	12-08-1990
14.	<b>Shri Dillip Ray</b> , Ministry of Industries, Govt. of Odisha	13-08-1990	03-05-1996
15.	<b>Shri Niranjana Patnaik</b> , Ministry of Industries, Govt. of Odisha	04-05-1996	22-07-1999
16.	<b>Dr. Giridhar Gomang</b> , Chief Minister, Govt. of Odisha	23-07-1999	10-03-2000
17.	<b>Shri Kanak Vardhan SinghDeo</b> , Ministry of Industries, Govt. of Odisha	11-03-2000	25-06-2002

## NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

		<u>From</u>	<u>To</u>
1	<b>Shri Kanak Vardhan Singh Deo</b> Ministry of Industries & Public Enterprise, Govt. of Odisha	26-06-2002	01-09-2002
2	<b>Dr. Bansidhar Panda</b> Chairman & Managing Director, IMFA Group of Industries, Bhubaneswar	02-09-2002	16-12-2007
3	<b>Shri Drona Rath</b> CMD, MECON LIMITED	17-12-2007	16.12.2010
4	<b>Shri B. S. Sudhir Chandra</b> Director (Project & Planning), Bangalore Metro Rail Corporation Ltd.	01.03.2011	24.11.2014
5	<b>Mrs. Vasantha Ramaswamy</b> Founder Director, Aprameya Associates, Pune	25.11.2014	05.08.2016
6	<b>Dr. Santrupt B. Misra</b> CEO, Carbon Black Business & Director, ABMC Pvt. Ltd.	27.06.2017	continuing

## SUCCESSIVE LIST OF PRINCIPALS

### REGIONAL ENGINEERING COLLEGE, ROURKELA

		<u>From</u>	<u>To</u>
1	Shri B. Mishra	15-08-1961	11-02-1962
2	Prof. Bhubaneswar Behera	12-02-1962	19-07-1971
3	Prof. H. S. Nagabhushanaiah	20-07-1971	30-08-1972
4	Prof. R. Mishra	31-08-1972	30-08-1973
5	Prof. H. S. Nagabhushanaiah	31-08-1973	16-10-1974
6	Prof. Somnath Mishra	17-10-1974	31-01-1996
7	Prof. Ashok Kumar Mohanty	01-02-1996	30-09-2001
8	Prof. Gopendra Kishore Roy	01-10-2001	25-06-2002

## SUCCESSIVE LIST OF DIRECTORS

### NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

		<u>From</u>	<u>To</u>
1	Prof. Gopendra Kishore Roy	26-06-2002	06-05-2003
2	Prof. Sunil Kumar Sarangi	07-05-2003	28-03-2005
3	Prof. Bijaya Kumar Rath	29-03-2005	02-11-2005
4	Prof. Sunil Kumar Sarangi	03-11-2005	02.11.2010
5	Prof. Prafulla Chandra Panda	03.11.2010	24.05.2011
6	Prof. Sunil Kumar Sarangi	25.05.2011	30.06.2016
7	Prof. Ranjit Kumar Sahoo	01.07.2016	10.10.2016
8	Prof. Animesh Biswas	11.10.2016	Continuing

# FROM THE ARCHIVE

## RECIPIENTS OF DOCTOR OF SCIENCE

*(Honoris Causa)*

### **Padma Vibhushan Dr. E. Sreedharan**

M.D., Delhi Metro

First Special Convocation

Held at Silicon Valley of India, Bengaluru, on 13 April 2014

*(In recognition of his significant contribution to the field of Civil Engineering and his pioneering work in establishment of Metro Rail systems in India.)*

### **Padma Shri Dr. Srikumar Banerjee**

Homi Bhabha Chair Professor, BARC Mumbai

Twelfth Convocation, 17 January 2015

*(In recognition of his significant contribution to the fields of Metallurgical Engineering and Nuclear Sciences in India.)*

### **Dr. Bansidhar Panda**

Founder Chairman, Indian Metal and Ferro Alloys Ltd)

Second Special Convocation

Held at Bhubaneswar, on 10 July 2015

*(In recognition of his pioneering contribution to growth of Ferroalloy Industry and to Social and Cultural upliftment of the society)*

### **Padma Shri Prof. Manindra Agrawal**

Professor, Dept of Computer Science and Engineering, IIT Kanpur

Second Special Convocation

Held at Bhubaneswar, on 10 July 2015

*(In recognition of his pioneering contribution to the field of Computer Science & Engineering and Engineering education in India.)*

## DISTINGUISHED ALUMNUS AWARDEES

Sl. No	Name	Year, Degree	Award date
1	Padmashree Nalini Ranjan Mohanty	B. Sc. Engg. (1965) Mechanical Engineering	16 January 2010
2	Sri Sukhendu Bikas Misra	B. Sc. Engg. (1969) Metallurgical Engineering	16 January 2010
3	Prof. Damodar Acharya	B. Sc. Engg. (1970) Mechanical Engineering	16 January 2010
4	Prof. Laxminarayan Bhuyan	B. Sc. Engg. (1972) Electrical Engineering	15 January 2011
5	Sri Chandra Prakash Gurnani	B.Sc. Engg. (1981) Chemical Engineering	15 January, 2011
6	Dr. Surya Narayan Mohapatra	B. Sc. Engg. (1971) Electrical Engineering	21 January, 2012
7	Dr. Lalit Mohan Patnaik	B. Sc. Engg. (1969) Electrical Engineering	21 January 2012
8	Sri Vir Vikram Vaid	B.Sc. Engg. (1972) Mechanical Engineering	21 January 2012
9	Prof. Deba Kumar Tripathy	B.Sc. Engg. (1968) Mechanical Engineering	19 January 2013
10	Sri. Sandip Das	B.Sc. Engg. (1977) Mechanical Engineering	19 January 2013
11	Sri. Madhusudan Padhi	B.Tech (1984) Metallurgical Engineering	19 January 2013
12	Shri Rabindra Nath Nayak	B. Sc. Engg. (1977) Electrical Engineering	18 January 2014
13	Shri Rajesh Vashist	B. Sc. Engg. (1980) Chemical Engineering	18 January 2014
14	Dr. G. J. Prasad	B. Sc. Engg. (1970) Metallurgical Engineering	18 January 2014
15	Shri Venkata Narasimham Peri	MCA, (1991)	18 January 2014
16	Shri Gopi Kanta Ghosh	B. Sc. Engg. (1969) Chemical Engineering	17 January 2015
17	Shri Pramod Kumar Jain	B. Sc. Engg. (1974) Mechanical Engineering	17 January 2015

18	Shri S. S. Mohanty	M. Sc. Engg. (1979) Mechanical Engg.	17 January 2015
19	Dr. Prabhakar Singh	B. Sc. Engg. (1973) Metallurgical Engineering	17 January 2015
20.	Prof. Prasant Mohapatra	B. Sc. Engg. (1987) Electrical Engineering	16 January 2016
21.	Dr. Prakash C. Patnaik	B. Sc. Engg. (1976) Metallurgical Engineering	16 January 2016
22.	Shri G. S. Prasad	B. Sc. Engg. (1976) Mechanical Engineering	16 January 2016
23.	Shri Ansuman Das	B. Sc. Engg. (1976) Mechanical Engineering	16 January 2016
24.	Dr. Akash Khurana	B. Sc. Engg. (1975) Mechanical Engineering	16 January 2016
25.	Prof. Debendra Kumar Das	B. Sc. Engg. (1972) Mechanical Engineering	20 January 2018
26.	Shri Dronadeb Rath	B. Sc. Engg. (1971) Mechanical Engineering	20 January 2018
27.	Shri Maheswar Sahu	B. Sc. Engg. (1971) Mechanical Engineering	20 January 2018

## WINNERS OF INSTITUTE GOLD MEDALS

### Best All-Rounder of B.Tech

Sl. No	Name	Department/Specialization	Graduating Year
1	Sri Sandip Raj Sharma	Department of Electrical Engineering	2003
2	Sri Siddharth Nair	Department of Electrical Engineering	2004
3	Sri Piyush Kumar	Department of Electrical Engineering	Jan, 2006
4	Sri Surjyendu Narayan Dhal	Department of Electrical Engineering	Dec, 2006
5	Sri Sidhartha Patnaik	Department of Mechanical Engineering	2008
6	Miss Amrita Patnaik	Department of Mechanical Engineering	2009
7	Sri Bidhan Kumar Pradhan	Department of Mechanical Engineering	2010
8	Miss Gloriya Panda	Department of Metallurgical & Materials Engineering	2011
9	Sri Mrutyunjaya Sandhibigraha	Department of Electrical Engineering	2012
10	Sri Bikash Mohanty	Department of Mechanical Engineering	2013
11	Nil	Nil	2014
12	Nil	Nil	2015
13	Sri Pradosh Pritam Dash	Department of Mechanical Engineering	2016
14	Sri Sagar Kumar	Department of Electrical Engineering	2017
15	Miss K Apoorva Tejaswi	Department of Mechanical Engineering	2018

### Best in M.Sc, MA

1	Chandan Kanta Das	Life Science	2013
2	Md Khurshidul Hassan	Life Science	2014
3	Miss Rutusmita Mishra	Life Science	2015
4	Miss Shilpa Swagatika Tripathy	Life Science	2016
5	Sri Subhankar Kundu	Chemistry	2017
6	Miss Poulommi Mandal	Earth & Atm.	2018

### Best in Integrated M.Sc

1	Miss Kumari Swarnima	Chemistry	2015
2	Sri Abhinav Mohanty	Chemistry	2016
3	Miss Shanu Kumari	Chemistry	2017
4	Sri Sachchidanand Prasad	Mathematics	2018



### Best Post Graduate (M.Tech, M.Sc & M.A & Integrated M.Sc.)

Sl. No	Name	Department/Specialization	Convocation Year
1	Miss Suman Kumari	Department of Civil Engineering- Structural Engineering	2003
2	Miss Sabita Dash	Department of Civil Engineering- Structural engineering	2004
3	Sri K. Soma Sekhar	Department of Mechanical Engineering- Production Engineering	2006
4	Miss Ruzuwana Parween	Department of Mechanical Engineering- Production Engineering	2006
5	Miss Durga Digdarsini	Department of Electronics and communication Engineering- VLSI Design & Embedded Systems	2008
6	Sri Siddapureddy Sudheer	Department of Mechanical Engineering- Thermal Engineering	2009
7	Miss Indira Priyadarshini Bhanja	Department of Civil Engineering- Structural Engineering	2010
8	Miss Leena Sinha	Department of Civil Engineering - Structural Engineering	2011
9	Sri Anup Kawtia	Department of Computer Science and Engineering - Computer Science	2012
10	Miss Bijily B	Department of Civil Engineering- Structural Engineering	2013
11	Miss Ishita Gupta	Department of Electronics and Communication Engineering - Communication & Signal Processing	2014
12	Miss Narapaneni Raghasudha	Department of Electronics and Communication Engineering -Signal & Image Processing	2015
13	Sri Sobhan Kanti Dhara	Department of Electronics and Communication Engineering	2016
14	Sri Saswat Ranjan Mishra	Department of Electrical Engineering	2017
15	Miss B Sneha	Department of Electronics & Communication Engineering	2018

### Best in MBA

1	Animesh Kumar Srivastava	School of Management	2013
2	Siddhartha Samadarshi	School of Management	2014
3	Bithika Jena	School of Management	2015
4	Miss Rupa Padhy	School of Management	2016
5	Miss Sanjana Tripathy	School of Management	2017
6	Miss Namrata Nanda	School of Management	2018

### Best B. Tech Project

Sl. No	Name Convocation	Department/Specialization	Year
1	Sri Pratik Kumar Ray, Smt Sonia Vadhera, Sri Tanmay Bera, Sri Abhishek Bhushan, Sri Rajiv Ranjan	Department of Metallurgical & Materials Engineering	2004
2	Sri Subrat Nayak, Sri Debadatta Das	Department of Electrical Engineering	2006
3	Sri Partha Sarathi Mishra	Department of Ceramic Engineering	2006
4	Nil	Nil	2008
5	Sri Sambit Kumar Shukla	Department of Computer Science and Engineering	2009
6	Miss Shivani Mittal	Department of Electrical Engineering	2010
7	Sri Tuljappa M Ladwa	Department of Electrical Engineering	2011
5	Miss Deepali Rath	Department of Mechanical Engineering	2012
6	Miss Swetalina Panigrahi	Department of Electronics and Instrumentation Engineering	2013
7	Sri P Sampark	Department of Metallurgical & Materials Engineering	2014
8	Sri Prakash Sarangi	Department of Mechanical Engineering	2015
9	Sri Himanshu Sekhar Pradhan	Department of Electronics and Instrumentation Engineering	2016
10	Miss Sonalisa Patel	Department of Industrial Design	2017
11	Miss P Sai Akanksha	Department of Bio-Medical Engineering	2018

# XVI CONVOCATION COMMITTEE

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**Prof. S. Meher**, Dean(AR)

**Prof. B. C. Ray**, Dean (FW)

**Prof. J. Bera**, Dean(PD)

**Prof. A. K. Panda**, Dean (SR)

**Prof. S. Panigrahi**, Dean(SW)

**Prof. S. K. Pratihari**, Chief Warden

**Prof. S. K. Patel**, Registrar

**Prof. S. K. Sahu**, PIC, (XVI Convocation & Convener)

**Mr. K. P. Panigrahi**, AR (AC-Res.)- Secretary

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<i>Medal</i>	<b>Prof. M. Panda</b> (CE)	Prof. R. Khan (ID), Mr. M. N. Anandababu (AR-SR), Dr. D. P. Tripathy (AL), Mr. T. K. Sarangi (AC), Mr. M. Jate (IA), Mr. R. R. Dash (PW), Mrs. A. Panda (FA)
<i>Dress Materials</i>	<b>Prof. M. R. Tripathy</b> (MA)	Prof. G. Sahoo (CY), Prof. (Mrs.) S. Patel (CY), Prof. (Mrs.) M. Misra (LS), Prof. P. Chongder (EC), Mr. K. P. Panigrahi (AR-Res), Mr. U. K. Biswal (AR), Mr. M. K. Das (AC), Mr. S. P. Sonwani (PW), Mr. C. R. Mishra (FA)
<i>Website &amp; Automation</i>	<b>Prof. P. K. Sa</b> (CS)	Mr. M. R. Patnaik (OAC), Mr. B. Behera (OAC), Mr. T. K. Patnaik (OAC), Mr. S. Sarangi (OAC)
<i>Invitation &amp; Hospitality</i>	<b>Prof. S. K. Patel</b> , Registrar	Prof. R. K. Patel (CY), Prof. S. K. Behera (CR), Mr. D. K. Pradhan (LB), Dr. S. Mohanty (GH), Mr. R. S. Singh (ES), Mr. C. R. Sahoo (ES), Mr. J. K. Sahu (ES), Mr. S. K. Moharana (DS), Mrs. R. Patra (RS)
<i>Arrangement for VIPs &amp; Special Invitees</i>	<b>Prof. S. K. Patel</b> , Registrar	Prof. D. Sarkar (CY), Mr. P. K. Panda (PW), Mr. K. K. Sahoo (AR), Mrs. P. Panda (LB), Dr. S. Mohanty (GH), Mr. B. B. Behera (RS), Mr. A. K. Sahu (DS)
<i>Venue Preparation &amp; Sitting Arrangement</i>	<b>Prof. P. Dash</b> (CY) <b>Prof. M. Okade</b> (EC) <b>Prof. S. Giri</b> (CY)*	Prof. G. Sahoo (CY), Prof. S. Hiremath (EC), Prof. B. Tyagi (ER), Prof. A. K. Singh (PH), Prof. G. Panda (ER), Mr. N. N. Nayak (SAC), Dr. T. R. Patnaik (SAC), Mr. J. Mandal (EM), Mr. B. K. Panda (IA), Mr. S. Modak (PW), Mr. A. Kumar (FA)
<i>Academic Procession</i>	<b>Prof. (Mrs.) S. Mohanty</b> (HS)	Prof. K. Sathyababu (CS), Prof. (Ms.) U. Subuddhi (CY), Prof. (Ms.) M. Pattnaik (EE), Mr. S. K. Moharana (DS)
<i>Convocation Dress Distribution</i>	<b>Prof. M. N. Sahoo</b> (CS)	Prof. S. Bakshi (CS), Prof. R. N. Behera (CE), Mr. T. K. Pattnaik (OAC), Mr. B. K. Behera (OAC), Mr. P. K. Dash (AC), Mr. Susanta Pradhan (BM), Mr. Utpal Kumar Swain (CH), Mr. Sukanta Garai (CR), Mr. Trinath Mahapatro (CS), Mr. K. Soumyakant (EE), Mr. Safikul Mondal (EM), Mr. Toshmani Meher (FP), Mr. Akhil Raj K. Veettil (ID), Mr. Sanjiv Kuma (LS), Mr. Sudhananda Pani (ME), Mr. Chinnam Sivateja (MM), Mr. Somnath Mahapatra (PH), Mr. Alok Kumar Sharma (TI), Mr. Krushna Chandra Sahu (TI), Mr. Manas Sutradhar (WS), Mr. Saurav Ranjan Sarangi (OAC), Ms. Purnima Joshi (SAC), Mrs. Bandana Panda (CS), Mrs. Smita Mohanta (PH), Ms. Chahat Kausar (LS)
<i>Arrangement for Degree Awardees</i>	<b>Prof. S. K. Panda</b> (CR)	Prof. J. R. Senapati (ME), Prof. S. K. Rathore (ME), Prof. A. K. Sahu (CH), Prof. R. K. Mahapatra (CS), Prof. A. Behera (MM), Prof. (Mrs.) M. Jana (CY), Ms. Purnima Joshi (SAC)
<i>Publication</i>	<b>Prof. A. K. Rath</b> (HS)	Prof. D. Choudhuri (MA), Prof. U. Gundala (HS), Mr. D. P. Tripathi (LB), Mrs. P. S. Kullu (IA), Mr. C. R. Swain (PW), Mr. K. C. Nayak (FA)
<i>Press &amp; Public Relation</i>	<b>Prof. K. K. Mahapatra</b> (EC)	Mr. B. Acharya (DR), Prof. A. K. Rath (HS), Ms. Itishree Singh Rathaur (PRO)
<i>Campus Cleanliness &amp; Hygiene</i>	<b>Prof. P. N. Viswakarma</b> (PH)	Prof. R. Dhiman (LS), Prof. S. Samal (CY), Prof. A. C. Pradhan (PH), Mr. R. K. Panda (EM)
<i>Audio &amp; Video Recording, Live Telecast</i>	<b>Prof. C. K. Biswas</b> (ME) <b>Prof. M. K. Maharana</b> (ME)	Mr. B. K. Sahoo (CC), Mr. P. Kumar (TEL), Mr. H. Das (TEL), Mr. A. Biswal (TEL), Mr. U. C. Pat (TEL), Mr. A. K. Mohanta (TEL)
<i>Safety &amp; Security</i>	<b>Prof. U. K. Mishra</b> (CE)	Prof. V. Shivkumar (CY), Prof. A. Behera (MM), Mr. S. Dutta, (OSD-SS)
<i>Transport &amp; Ambulance</i>	<b>Prof. A. Satapathy</b> (ME)	Dr. S. Mohanty (GH)
<i>Electricity &amp; AC/Fan</i>	<b>Prof. S. Murugan</b> (ME)	Prof. S. Ghosh (ME), Mr. J. Mandal (EM), Mr. R. K. Sahoo (EM), Mr. P. K. Sahu (EM), Mr. S. Pradhan (EM), Mr. G. Mohanta (SAC)
<i>Telephone</i>	<b>Prof. L. P. Roy</b> (EC)	Mr. B. K. Behera (TL), Mr. T. K. Das (TL)
<i>Health Care</i>	<b>Dr. C. Bhattacharya</b> (HC)	Dr. A. Debata (HC), Dr. S. Patnaik (HC)
<i>Lunch</i>	<b>Prof. S. Mishra</b> (FP)	Prof. R. C. Pradhan (FP), Prof. P. Mahanandia (PH), Prof. M. Dwivedi (FP), Mr. M. K. Pattnaik (CC), Mr. P. B. Acharya (ES), Mr. R. K. Nayak (IA), Mr. S. C. Malla (PW), Mr. M. Mishra (AC)
<i>Pre-Convocation Cultural Function</i>	<b>Prof. S. Chakraverty</b> President (SAC)	Prof. R. Dhiman (MA), Prof. (Ms.) N. Patra (BM), Prof. S. K. Das (EC), Dr. S. S. Bal (CIF), Mr. N. N. Nayak (SAC), Mr. A. Kumar (CR), Mr. G. Mohanta (SAC)
<i>Pre-Convocation Alumni Function</i>	<b>Prof. S. Meher</b> Dean (AR)	Prof. S. K. Behera (CR), Dr. B. Gunjal (DL), Mr. V. K. Mishra (AL)

## PREVIOUS CONVOCATIONS

<b><u>Convocation</u></b>	<b>Date</b>	<b>Chief Guest</b>
Annual Convocation – I	April 12, 2004	Prof. R. Natarajan
Annual Convocation – II	December 11, 2004	Dr. Anil Kakodkar
Annual Convocation – III	January 28, 2006	Prof. Chandrasekhar Jha
Annual Convocation – IV	December 16, 2006	Shri Subrato Bagchi
Annual Convocation – V	January 12, 2008	Dr. K. Radhakrishnan
Annual Convocation – VI	January 17, 2009	Dr. K. Kasturirangan
Annual Convocation – VII	January 16, 2010	Dr. A.P.J. Abdul Kalam
Annual Convocation - VIII	January 15, 2011	Shri Partha S. Bhattacharyya
Annual Convocation - IX	January 21, 2012	Shri Chandra Shekhar Verma
Annual Convocation - X	January 19, 2013	Dr. V. K. Saraswat
Annual Convocation - XI	January 18, 2014	Shri Sudhir Vasudeva
Annual Convocation - XII	January 17, 2015	Padma Shri Dr. Srikumar Banerjee
Annual Convocation - XIII	January 16, 2016	Shri Karan Grover
Annual Convocation-XIV	January 21, 2017	Padma Shri A. S. Kiran Kumar
Annual Convocation-XV	January 20, 2018	Dr. P. K. Mishra



The collage consists of 15 individual photographs arranged in a grid-like fashion, showcasing the 15th Annual Convocation of the National Institute of Technology Rourkela. The images depict various activities:
 

- Top Left:** A group of men in academic regalia walking on a red carpet.
- Top Center:** A large group of men in regalia standing on a stage with a floral backdrop.
- Top Right:** A group of men in regalia standing together for a photo.
- Middle Left:** A man in a blue shirt and regalia speaking at a podium decorated with flowers.
- Middle Center:** A group of women in sarees standing on a stage.
- Middle Right:** A man in a blue shirt and regalia speaking at a podium.
- Bottom Left:** A group of men in regalia standing on a stage.
- Bottom Center:** A man in a blue shirt and regalia presenting a certificate to a woman in a saree.
- Bottom Right:** A group of men in regalia standing on a stage.

 The background of the photographs features banners with the text "15th Annual Convocation" and "National Institute of Technology Rourkela" in both English and Odia. The overall atmosphere is formal and celebratory.





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