





# START-UP CELL BIT SINDRI, DHANBAD ANNUAL REPORT 2020-21

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E-Cell

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Social Media





#### Notable words from eminent people



## An entrepreneur is someone who has a vision and a desire to create what he envisions of.

We invite the industries & Start-ups to invest in the state, holding out the assurance that the State government would support the industry & Start-ups in facilitating their investment initiatives. The state did witness political instability and lack of rural infrastructure but now the Government is working towards creating investor-friendly policies to promote inclusive Growth

#### -Hon'ble Chief Minister of jharkhand Mr. Hemant Soren



Start-ups are redefining the Indian economy. With its favourable demography, open economic environment and culture of entrepreneurialism, India is highly conducive to entrepreneurial activity. Engaging in mentoring relationships with established companies can help create mutual success and drive India toward an ever-more dynamic future. Entrepreneurship in India has grown significantly, and start-ups are beginning to dramatically impact the economy.

#### -Hon'ble Mr. K. K. Khandelwal (IAS 1988-Batch), Additional Chief Secretary, Higher and Technical Education Department



Start-ups may be small companies but they can play a significant role in economic growth. They create more jobs which means more employment, and more employment means an improved economy. Not only that, start-ups can also contribute to economic dynamism by spurring innovation and injecting competition.

-Hon'ble Dr. Arun Kumar, Director, Directorate of Technical Education, Dept. of Higher and Technical Education, Government of Jharkhnad

## From Director's Desk



## Prof. (Dr.) D.K. Singh

"What is the calculus of innovation? The calculus of innovation is really quite simple: Knowledge drives innovation, innovation drives productivity, productivity drives economic growth."

- William Brody

Entrepreneurs and Start-ups play a vital role in the economic and social development of a nation. Start-up cell, BIT Sindri was created with a vision to establish a holistic eco system to promote innovation, creativity and entrepreneurship in the institute.

Our strength lies in our innovative, learning practices along with industry-specific curriculum which is strongly backed-up by our sturdy corporate interface. Supported by collaborative research in cross-cultural management areas with government institutions, this unique integration of innovative perspective and strong mentorship support gets reflected in start-up cell's world-class practices. From training programmes for students to action-centric research and result-oriented consulting, **Start-up cell, BIT Sindri** is in the spotlight of entrepreneurship community for the overall development of the students.

Students have lot of potential to do wonders and have big dreams while studying in the campus. I hope Start-up cell will always be successful in providing an enriching pre-entrepreneurial knowledge, guidance and ecosystems.

## From Professor Incharge, E-Cell



## Prof. (Dr.) Prakash Kumar

(Head, Production Engineering)
Prof. In Charge Innovation, Startup,
Incubation & IP Cell & President IIC 3.0
(MIC's)

We, at The Entrepreneurship Cell, share the common belief that for India to emerge as a world power, the youth has to break the shackles of prejudices and inertia that has kept them from starting up. We are making headway in Creating an entrepreneurial ecosystem to provide the platform for individuals with creative minds and ideas with potential for substantial business opportunities. We enable smooth and efficient interaction between its principal components spanning students, aspiring and existing entrepreneurs, mentors , investors and venture capitalists.

Innovation needs brilliant minds, brilliant ideas, and a good place to incubate the ideas of brilliant minds. Historically India has been the world leader in innovation and knowledge. To rebuild the innovation ecosystem of India, Government of India has initiated the Start-up India program. Birsa Institute of Technology, Sindri has been participating in this program in a spirited way. The vision includes creating academic courses related to entrepreneurship, academic practices for fostering creativity and innovation amongst our students, establishing a technology incubator, start-up Center and broadening the activities.

The aim of Start-up Cell, BIT Sindri is to identify and nurture good innovations by way of encouraging them to open start-ups and provide technical, financial, marketing, and legal support to incubate their ideas. We at Start-up Cell, BITSindri, cordially invite companies/individuals to come forward and let their innovations convert into commercial products/processes. We sincerely look forward to establishing a fruitful and long-standing relationship.



A start-up is a company or project initiated by an entrepreneur to seek, effectively develop and validate a scalable business model. It is based on the idea that entrepreneurs can make the explicit assumptions about how their venture works explicit and empirically testing point on start-up focus:

- 1. Find a problem worth solving, then define a solution.
- 2. Engage early adopters for market validation.
- 3. Continually test with smaller, faster iterations build. a function, measure customer response, and verify the idea.
- 4. Evidence-based decisions on when to "pivot" by testing your plan.
- 5. Maximize the efforts for speed, learning, and focus



The **Start-Up cell**, B.I.T Sindri was established in November 2017 with the objective of encouraging the students with start-up ideas and providing them with a platform to nurture their skill-set, which can help them to effectively move towards implementing their innovative idea with dedication, hard work and guidance from the people who have left their footprints for the aspirants to follow. We strive to be the motivating factor and drive the innovations towards their zenith. The honourable Prime Minister of our nation, Mr Narendra Modi, while addressing the 'India-US start-up Konnect' held in Silicon Valley proclaimed the dawn of start-ups in India, an initiative exclusively meant to grow the start-up ecosystem in India. This initiative mandated the formation of incubation centres and Start-up cells in universities and colleges. It also centralised them for effective monitoring and easy implementation of the regulations formed, discarding the leadership of the states in the area.

The Start-Up Cell, B.I.T. Sindri is also a part of the Ministry of Human Resource Development's (MHRD) Innovation Cell, which goes by the name of Institute Innovation Council (IIC). After the inception of start-up cell, our prime event to facilitate our target of making BIT Sindri, a start-up ecosystem has been "Entrepreneurial conclave". Start up enthusiast sand Entrepreneurs from across the nation are invited to share their journey and experiences they garner after sailing through these tides. They include Prof. BS Sahay (Director- IIM Jammu), Mr. S.N. Sharma (Venture capitalist, USA based entrepreneur), Shri Ramesh Yadav (USA base entrepreneur & Venture capitalist), Dr Neil Pundit (eminent alumnus, North America chapter), Mr Vijay Prasad (CEO- NexGen power 2017 was born. Also known as MHRD's India), Shri Chandrika Prasad, Shri Amit Roy and Gaurav Singh (co-founder, My perfectice). We believe there is always much left to explore.



#### Vision -

Intended to build a strong ecosystem conducive for the growth of start-up activities in order to drive sustainable economic growth and generate large-scale employment opportunities within the state as well as the

#### Mission -

To facilitate start-up activities for the students To motivate and inspire students. To equip them with the necessary skills for implementing innovation and design To provide necessary assistance.

#### **OBJECTIVES OF ENTREPRENEURSHIP CELL**

To create a start-up ecosystem.

To promote creative thinking and efficient work culture

To Develop a Critical Mass of Motivated Students & Faculties with Entrepreneurial Orientation & Skill.

To Enhance In House Company Development to Serve potential and Early Stage Entrepreneurs and Student Innovators at the institute.

To Strengthen the Inter Department and inter-Institutional linkage Incubators and Other Ecosystems Enablers at Different Levels.

To secure finance through venture capitalists.

To convert innovations into marketable products.



## **TEAM MEMBERS**



## **BATCH 2017**

- Anurag Shrivastava
- Amisha Kumari
- Harsh
- Shubham Raj
- Shalini Singh
- Paresh Rathour
- Nitish Kumar
- Nilesh Kr. Tiwari
- Kishley Kr. Mahto
- Arya Garg
- Divyansh Ranjan

## **BATCH 2018**

- Roshan Kr. Rajak
- Sanu Kumar
- Adhya Kumari
- Aditaya Burnwal
- Navinetra
  - Aman Kr. Garg
- Somya Kumari
- Abhinav Prakash
- Milan Kashyap
- Pankaj Kumar
- Nikhil KumarVineet C. Gokhale
- Anshuman Singh
- Gautam Kumar
- Saurabh Bhardwaj
- Shanu Anand
- Abhinay Kr. Sah
- Rewti Raman Sahu
- Shivam Singh
- Apoorv A. Parmar
- Arbind Kr. Gupta
- Himanshu Ranjan

#### **BATCH 2019**

- Nilam Kumari
- Kriti Kumari
- Priyanka Pandey
- Ronit S. Choudhary
- Ritesh Kumar
- Pooja Kumari
- Abhishek Kumar
- Adarsh Arya
- Riya Kumari
- Nishu Sinha
- Md Sahil
- Anshu Kumar
- Basudeb Mishra
- Md Aamir Akhtar
- Imran Nazir

## **Events & Competitions List**

CI							
Sl. No.	Name of Activity	Speaker/Facilitator	Date	Venue	No of Participants	Outcome of the activity	Expenses incurred
1	নব্যস্ত্ত e-Innovation Hackathon Organised by Model Club in association with Institution's Innovation Council	Judges for the event: Mr Vivek Gupta Mr. Vinay Singh Dr. S C Dutta Mr. Ashwini Kumar	4 Aug. to 6 Aug. 2020	Online	113 Teams participated	Problem Statements on the Innovation Challenges	NA NA
2	Webinar on "Design Thinking and Artificial Intelligence" Organized by the Production Engineering Department in association with Institution's Innovation Council	Dr. Pranjal Kumar Phukan	11th Aug. 2020	Online	57	To lead innovations in Artificial Intelligence. Design thinking principles and process inspires students to ask questions and probe deeper into the problem statement and its possible solutions	NA
	"e-Commerce AI enabled solutions throug h Government e- Marketplace (GeM)" Organized by the Production Engineering Department in association with Institution's Innovation Council	Dr. Pranjal Kumar Phukan	13th Aug. 2020	Online	48	To get to know about the Highlighting Features of Government e-Market including Make in India Support, its Security & Safety and Cost Efficiency To The Government	
	Online course on Introduction to Entrepreneurship (ENT 201/603), IIT Bombay Organized by IIT Bombay Department in association with Institution's Innovation Council, BIT Sindri	Prof. Anand T. Kusre Desai Sethi School of Entrepreneurship, IIT Bombay, Mumbai Mr. Ramesh Yadava Former President, BITSAAN	10th August 2020 to 02nd November 2020	Online	20	The participants get to know about basic elements of Entrepreneurship. 6Cs that motivate entrepreneurs are Change, Challenge, Creativity, Control, Curiosity and Cash. Tough competition. Unfavorable environment, To create public demand, To enhance creativity and To increase productivity are some of the role of Entrepreneurship.	NA
5	IP Literacy Week Organized by MOE's Innovation Council		15th Oct. to 23 Oct. 2020	Online	40	'KAPILA' Kalam Program for Intellectual Property Literacy and Awareness campaign was virtually launched on the 89th birth anniversary of former President and Scientist, Late Dr. APJ Abdul Kalam and marked as the 'National Innovation Day'.	
6	Methods of Exploring and Capturing values from Indian Agriculture and Health Sector Organized by MOE's Innovation Council	Prof. Anil Sahasrabudhe, Chairman, AICTE Shri A B Shukla COO, IKS, AICTE	3rd November 2020	Online	40	To understand the integration of innovation in Indian knowledge system To explore the agricultural and Health sector. To understand innovation in light of the Indian value system Learning the functioning of Agriculture and Health sector. Innovation and evolution taking place in Indian value system.	

## **Events & Competitions List**

Sl. No.	Name of Activity	Speaker/Facilitator	Date	Venue	No of Participants	Outcome of the activity	Expenses incurred	
7	Social Entrepreneurship Organized by Mahatma Gandhi National Council of Rural Educator (MGNGRE), Hyderabad Department in association with Institution's Innovation Council, BIT Sindri		27th Nov. 2020	Online	50 participants (teams)	Basic understanding of Social Entrepreneurship along with Case for Definition, potential benefits offered by social entrepreneurship	NA	
8	Idea Pitching Session Organized by Institution's Innovation Council, BIT Sindri	Venerate entrepreneurs: Mr. Ramesh Yadava, Mr. Gaurav Kumar Singh, Mr. Ravi Singh Choudhary, Mr. Sumit Kumar, Mr. Prafulla Kumar, Mr. Anil Singh, Mr. Rajat Verma, and Mr. Srijan Manish	12th of December 2020	Online	11 start-up ( Idea Pitching)	11 start-ups have present their startup in front of Venerate entrepreneurs.	NA	
9	National Hardware Hackathon-2020 Organized by: Model Club in association with Institution's Innovation Council, BIT Sindri		23rd - 24th December, 2020	Online	77 team were participated in the Hackathon	*Identifying new domains of science to explore the business. *Getting new ideas to develop new tools and techniques.		
10	A seminar on Innovation, Technology Transfer and IPR protection Organized by Innovation & HOC, NVCTI Indian Institute of Technology (Indian School of Mines), Dhanbad		December 29, 2020	Online	1 participated			
11	A seminar on National Innovation and Startup Policy Organized by Innovation & HOC, NVCTI Indian Institute of Technology (Indian School of Mines), Dhanbad		December 30, 2020	Online	1 participated			
12	Start-up awareness Programme- Start-up Induction for 2020 B.Tech. batch Organized by Institution's Innovation Council, BIT Sindri	Dr. Parkash Kumar President Institution's Innovation Council, BIT, Sindri	03 Jan 2021	Online		Awareness about the start-up activity and the start-up currently getting incubation at BIT Sindri, about incubation center of BIT Sindri		
13	Workshop: i-Create, Technology Business Incubator, Ahmedabad	Director, BIT Sindri, Dr. Parkash Kumar President, IIC 3.0, along with other faelty members and i- Create Team Members, Mr. Anupam Jalote, Mr. Siddharth Pareek, Mr. Parag	17 <sub>th</sub> March 2021	Online	Workshop with i- Create to develop Entrepreneurial Culture in BIT Sindri	Startup Ideas and business proposal of BIT Sindri, Dhanbad, Jharkhand		

## **Events & Competitions List**

SI.	Name of Astivity	Speaker/Facilitator	Data	Venue	No of	Outcome of the	Expenses
No.	Name of Activity	Speaker/F acilitator	Date	venue	Participants	activity	incurred
14	Talk on- From your Ph.D./ Masters Thesis to a start- up Channel: MHRD Innovation Cell	Session Chair: Prof Anil D. Sahashrabuddhe, Chairman, AICTE, Speaker: Dr. Anand Deshpande, Founder and CMD, Persistent Systems	23rd April 2021	Online	60 Participants	Awareness among M.Tech. & PhD Ph.D students for entrepreneurship and Innovation	
15	NAVONMESH (Night Quiz and Ace the Analytics)	Facilitators: - Dr. Prakash Kumar (President IIC 3.0) along with other members, Aman Garg, Abhinav Kr. Sah, Roshan Kr. Rajak	24th April 2021 – 28th April 2021	Online	132 Participants	Major activities were: Innovation Quiz, Decisions making and Management games. The event provided the opportunity for students to explore the business world	
16	Workshop on Project Management Organized by Production Engineering Department and Institution's Innovation Council, BIT Sindri in collaboration with BITSAANA	Mr. Prafull Kumar, Mr. Anand Shreekar, Mr. Ujwal Ritwik, Mr. Amit Kumar, Mr. Anil Kumar Jha, Mr. Pranjal Phukan, Mr. Pravin Gohil, Mr. Jan Verma, Mr. Ramesh Yadava	22nd to 24th May 2021	Online	313 Participants (Students and Faculty Members)	Topics Covered:  Different stages of Project, Project Constraints, Responsibilities of project manager Project scheduling techniques, PERT, CPM Models Budgetary aspects and Project Productivity Environmental, Health & Safety considerations in project Case study of Industrial/Engineering projects, R & D Projects, Turnkey projects Project performance monitoring techniques, Project Staffing Requirements, Resource leveling. Project Documentation, Computer Application in Project	
17	Webinar on Entrepreneurship And Innovation as Career Opportunity Organized by Institution's Innovation Council, BIT Sindri	Director, BIT Sindri, Dr. Parkash Kumar President, IIC 3.0 Eminent Speakers:- Mr. Gaurav Singh Mr. Srijan Manish Mr. Ravi Singh Choudhary Mr. Divyanshu Sinha Mr. Karan Raj Mehta	7th June 2021	Online	252 Participants (Students and Team Members)	● The event provided us the opportunity learn more about this vital topic it also helped us to get a very insightful and encouraging knowledge which will help all of us in our near future. The points are beautifully discussed by Gaurav singh sir. ● The session was a complete package of knowledge and experience That made the students aware about this vital topic.	NA

## नवउज्ज्वल e-Innovation Hackathon

নব্যজ্জ্বল e-Innovation Hackathon (Nav Ujjwal E-innovation Hackathon) was a problem statement based online innovation challenge organized by Model Club in association with Siemens and IIC, Following our Prime Minister's motto of "Aatma-Nirbhar Bharat", the foundation of Nav Ujjwal e-innovation Hackathon was laid.

The sole aim of the national contest was to inspire the youth of the country to find innovative and viable solutions to real-life problems that India has been facing. More than 500 students from different engineering colleges all across the nation pitched their new-fangled solutions from 4th to 6th August 2020 to the bench of experts from national and international organizations which includes Mr Vivek Gupta, Mr. Vinay Singh, Dr. S C Dutta and Mr. Ashwini Kumar.

### **Design Thinking and Artificial Intelligence**

Webinar on "Design Thinking and Artificial Intelligence" was organized by the Production Engineering Department in association with Institution's Innovation Council, under the able guidance of Dr. Pranjal Kumar Phukan, on 11th August 2020.

The aim of this webinar was to make the students aware about the Idea of Artificial Intelligence. So that, they can move forward to lead innovations in the field of Artificial Intelligence. Design thinking principles and process inspires students to ask questions and probe deeper into the problem statement and its possible solutions.

# **Quick Look On The Activities**



## नवउज्ज्वल e-Innovation Hackathon



## IP Literacy Week







## **IP Literacy Week**

IP Literacy Week was organized by MOE's Innovation Council on 15th October To 23 October 2020 .

'KAPILA' Kalam Program for Intellectual Property Literacy and awareness campaign was virtually launched on the 89th birth anniversary of former President and Scientist, Late Dr. APJ Abdul Kalam and marked as the 'National Innovation Day'. In this, Participants were made aware about IPR and the types of Intellectual property. The session was very much insightful and enriching with knowledge for everyone.

# Methods of Exploring and Capturing value from Indian Agriculture and Health Sector

Webinar on "Methods of Exploring and Capturing values from Indian Agriculture and Health Sector" was organized by MOE's Innovation Council under the guidance of Prof. Anil Sahasrabudhe, Chairman, AICTE and Shri A B Shukla COO, IKS, AICTE on 3rd November 2020. The session was very helpful and informative.

- To understand the integration of innovation in Indian knowledge system.
- To explore the agricultural and Health sector.
- To understand innovation in light of the Indian value system.
- To Learn the functioning of Agriculture and Health sector.
- To know about Innovation and evolution taking place in Indian value system.

# Quick Look On The Activities



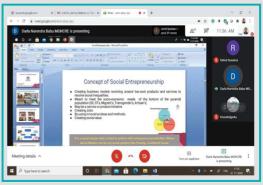
## Idea Pitching Session





## Social Entrepreneurship







## e-Commerce AI enabled solutions through Government e-Marketplace (GeM)

Webinar on "e-Commerce AI enabled solutions through Government e-Marketplace (GeM)" was organized by the Production Engineering Department in association with Institution's Innovation Council under the mentorship of Dr. Pranjal Kumar Phukan, on 13th August 2020.

This webinar is for the welfare of the students so that, they can get to know about the Highlighting Features of Government e-Market including Make in India Support, its Security & Safety and Cost Efficiency to the Government. The session was very interactive and worthful for the development of the student entrepreneurs.

#### **Introduction to Entrepreneurship**

Online course on "Introduction to Entrepreneurship" (ENT 201/603), IIT Bombay, was organized by IIT Bombay in association with Institution's Innovation Council, BIT Sindri under the able guidance of Prof. Anand T. Kusre of Desai Sethi School of Entrepreneurship, IIT Bombay, Mumbai and Mr. Ramesh Yadava Former President, BITSAAN from 10th August 2020 to 02nd November 2020.

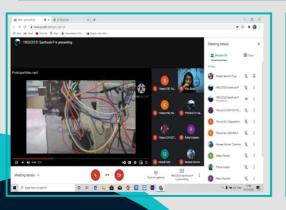
In this, the participants got to know about basic elements of Entrepreneurship, 6Cs that motivate entrepreneurs are Change, Challenge, Creativity, Control, Curiosity and Cash, Tough competition, Unfavourable environment, to create public demand, to enhance creativity and to increase productivity are some of the role of Entrepreneurship.

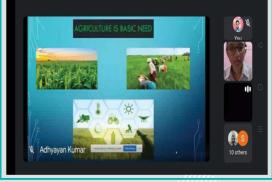
# Quick Look On The Activities

# A seminar on Innovation, Technology Transfer and IPR protection



#### National hardware hackathon-2020







## **Social Entrepreneurship**

Webinar on Social Entrepreneurship was organized by Mahatma Gandhi National Council of Rural Educator (MGNGRE), Hyderabad Department in association with Institution's Innovation Council, BIT Sindri on 27th Nov. 2020

In this, Participants get the Basic understanding of Social Entrepreneurship along with Case for Definition, potential benefits offered by social entrepreneurship. The participants got to know about the benefits of Social Entrepreneurship and the importance of social entrepreneurs in the society for the improvement of the nation. They got the insights of the risk and effort made by a social entrepreneurs to create positive changes in society through their initiatives.

#### **Idea pitching Session**

"If you don't find a way to make money while you sleep, you will work until you die"

- Warren Buffet

Idea pitching Session was organized by the Institution's Innovation Council, BIT Sindri on 12th of December 2020 on online platform. It is the prominent event of cell in which the aspiring people have to bring the idea to the jury member. There were eminent Venerated entrepreneurs as a jury from different corners of world to assist the entrepreneurship culture by furnishing platform. Total 11 innovative ideas were pitched and based upon the management skill, convincing skill, market exposure and investor for their startup they were marked. Top 3 ingenious names are: -

- 1. E Platform for Blood Collection
- 2. First Harvests
- 3. FirstAd

# Quick Look On The Activities

Start-up awareness Programme & Start-up Induction for new batch





#### The National Hardware Hackathon 2020

"If you look at history, innovation does not come just from giving people incentives; it comes from creating environments where their ideas can connect".

The National Hardware Hackathon 2020 was organized by Model Club in association with Institution's Innovation Council, BIT Sindri from 23rd December 2020 to 24th December 2020. The event proved to be an important tool to drive sustained innovation and crowdsource solutions to address pressing real-life business problems and social issues. This online event saw an overwhelming response of 77 teams participating from various institutes. This rewarding experience had enabled the participants -

- To identify new domains of science to explore the business.
- Getting new ideas to develop new tools and techniques.

# Innovation, Technology Transfer and IPR protection

A mind lifting seminar on "Innovation, Technology Transfer and IPR protection" was organized by Innovation & HOC, NVCTI Indian Institute of Technology (Indian School of Mines) Dhanbad on 29th December 2020.

The super interactive session involved all of the minds and focused them on the points delivered. Intellectual property rights especially patents helps in increasing innovation and technology diffusion. IPR protection help firms to undertake R&D and recoup associated costs related to encourage innovation. IPR also plays a crucial role in international technology transfer and encourage innovation.

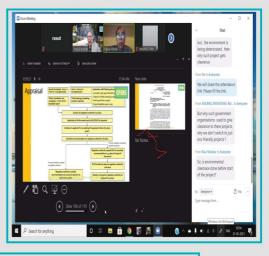
It proved to be a massive help by the authorities.

# Quick Look On The Activities

## 3 Days workshop on Project Management









## Workshop on Project Management held at BIT Sindri

Baliyapur.

The three-day workshop on Project Management at BT Slandt concluded today. The workshop was organized by the Production Department, E-SAIL BT Sindri and by the Alamin Chapter of North America. Parlulla Kumar, director of Dream Religion, gove an explanation on the theme, features and construction of a project complete and construction of project manager. Depart Annual Surface gave complete information to be participants by demonstrating the project scheduling technique and Depart (PM model. Safety professional Upwal Ritorit, highlighted aspects of the project in terms of environment, health and safety. Former Director OMCA annual Kumar discussed all the



dimensions of project commissioning. Former Director NTPC. Anl Kumar Jha analyzed engineering projects and turnisey projects. Expert Pramial Phakan highlighted the productivity of the project. Praven Gohil gave a presentation on performance, cost evaluation and monitoring, jainendra Kumar Verma shared views on



the project monitoring technique. Earlier in the inaugural session, Director Prof. DK Singh said that this workshop was focused on project management, planning concept, evaluation, monitoring, control, Workshops on sort skills and machines will also be organized in the future. Convenor of the program Prof. Pralasah Kumar thanked everyone and thanked him at the end. He informed that the workshop was organized under the guidance and composition of the North America Alumni Chapter. In particular Prasidiae Kumar, Ramesh Yadav and Balka International President Bal Trivedd were guided and

project management is essential for all departments. Keeping this in mind, the workshop was organized. Workshop Coordinator of Production Engineering Department Prof. Kashif and Prof. Muleish Chandra was. The workshop was attended by more than 120 participants, including teachers and students.

#### i- Create Technology Business Incubator Ahmedabad

A Workshop on i-Create Technology Business Incubator Ahmedabad was organised on 17th march with i-Create to develop Entrepreneurial Culture in BIT Sindri. The workshop was attended by Dr. D. K. Singh Director of Bit Sindri , Dr. Prakash Kumar , President IIC3.O along with other faculty members and i-Create Team members Mr. Anupam Jalote, Mr. Siddhart Parrek, Mr. Parag and also participants with i-Create to develope Entrepreneurial Culture in BIT Sindri.

In workshop we promoted the Start-up ideas and business proposal of BIT Sindri, Dhanbad, Jharkhand. The session was very interactive and informative for the development of Entrepreneurship culture in our institute.

**Project Management** 

A workshop on "Project Management" was organised by Production Engineering department and Institution's Innovation Council BIT Sindri in collaboration with BITSAANA from 22nd to 24th May 2021. This was an online workshop via ZOOM platfom.

The workshop was guided by 8 faculty member including Mr. Prafull Kumar, Mr. Anand Shreekar, Mr. Amit Kumar, Mr. Anil Kumar Jha, Mr. Pranjal Phukan, Mr. Pravin Gohil, Mr. Jan Verma and Mr. Ramesh Yadav. A total of 305 participants included from 1st to final year participated in the webinar. We had a Healthy and worthful discussion on -

- Different stages of project, Project constraints responsibility of project manager.
- Project scheduling techniques, PERT, CPM Models.
- Budgetary aspects and project productivity.
- Environmental Health and safety consideration in project.
- Case study of Industrial /Engineering projects, R&D projects turn key projects.
- Project performance monitoring techniques, projects staffing requirements, resources, labeling. Project documentation, computer application in project engineering.
- Risk & sensitivity analysis.

# **Quick Look On The Activities**

## Navonmesh











## **National Innovation and Startup Policy**

A seminar on National Innovation and Startup Policy was organized by Innovation & HOC, NVCTI, Indian Institute of Technology (Indian School of Mines), Dhanbad, on December 30, 2020.

Entrepreneurship and Start-up Policies play a vital role in the economic and social development of a nation. In fast developing economics like India, these polices are critical and very important for innovators, entrepreneurs and start-ups in overcoming barriers while trying to market their innovation and growth of start-ups from scratch to scale. The National Innovation and Start-up Policy 2020 intends to guide HEIs to promote student driven innovations & start-ups and to engage the students and faculty in innovation and start up activities in campus. The policy aims at enabling HEIs to build, streamline and strengthen the innovation and entrepreneurial ecosystem in campus and will be instrumental in leveraging the potential of science, student's creative problem solving and entrepreneurial mind-set, and promoting a strong intra and inter-institutional partnerships with ecosystem enablers and different stakeholders at regional, national and international level.

#### Start-up awareness Programme

Start-up awareness Programme or Start-up Induction for B. Tech Batch of 2020 was organized by Institution's Innovation Council, BIT Sindri under the mentorship of Dr. Parkash Kumar President Institution's Innovation Council, BIT, Sindri along with the members of IIC3.0, on 03 Jan 2021.

This program was to create Awareness about the start-up activity and the start-up currently getting incubation at BIT Sindri , about incubation center of BIT Sindri to the newly admitted students of B. Tech. Batch 2020. In this, participants are also made aware about the advantages of incubation center and Start-up Cell. They were also made aware of the on going start-ups in the centre along with the information of the successful student enterpenures of the Institute.

# **Quick Look On The Activities**

# Webinar on 'Entrepreneurship And Innovation as Career Opportunity'





## **Navonmesh**

Start-up Cell, BIT Sindri organized "NAVONMESH" an event with two different segments "Ace the Analytics" and "Night Quiz" for the students of BIT Sindri, Dhanbad. The Night Quiz was organized on 26th April, 2021 and Ace the Analytics on 27th April 2021.

The activity had covered Innovation Quiz, Decisions making and Management games. It has provide a good opportunity to explore the world of business and also trigger the analytical capabilities of students through Puzzles and Real time situations in business and management. The response we received for the same was extremely overwhelming and it was very difficult for us to choose the winners. But a competition has no value without a winner, hence after a lot of brainstorming, we have finalized 3 of the best entries -

Night Quiz Ace the Analytics 1.Bittu Yadav 1.Satyam Singh 2.Shanu Srivastava 2.Raunak Singh

3. Jitendra Kumar Saw 3. Ashutosh Kumar Pandey

## Entrepreneurship and Innovation as Career Opportunity

With the vision of director Prof. Dr. D K Singh sir and Professor in-charge of Start-up Cell, BIT SINDRI Prof. Dr. Prakash Kumar sir an online webinar was organized For the development of the Students of the Institute. The webinar was organized by the Entrepreneurs Cell in association with Institute Innovation Council, BIT SINDRI, DHANBAD. The webinar was on the vital topic of "Entrepreneurship and Innovation as Career Opportunity" in which Speakers from different backgrounds and working on different Start-ups were called to enlighten the students about this important topic. The students were blessed with the very knowledgeable and the important entrepreneurs of the college Mr. Gaurav Singh (Founder and CEO of MyPerfectice), Mr. Srijan Manish (Product Manager at PAYBACK), Mr. Ravi Singh Choudhary (Founder of Sampurn Krishi Utthaan Foundation), Mr. Karan Raj Mehta (Founder and CEO of Milo Doctor), along with the representative of successpapa.com were present to bless the students with their inspirational thoughts. The event provided us the opportunity learn more about this vital topic it also helped us to get a very insightful and encouraging knowledge which will help all of us in our near future.

## **OUR PRIDE**

#gems\_of\_bit







#### Mr. Karan Raj Mehta

Civil Engg. (2016-2020)
Chief Executive Officer and
Founder of MiloDoctor ( previously YuMedic)

#### **Milo Doctor**

Milo Doctor is a healthcare service providing company founded by Karan Raj Mehta (batch of 2k16) that is uplifting the healthcare scenario in tier-2 and tier-3 cities of the country. Milo Doctor is a user oriented healthcare platform that creates an ecosystem between the patients and doctors by bringing them on a common trusted platform. With more than 700 doctors onboard and a customer base of 30K+ users, and is the fastest growing healthcare startup in eastern India.

From the stage of being just a mere idea to a fully functional Startup, Milo Doctor has always kept on striving on the path to provide quality healthcare services to everyone. With a huge customer base, Milo Doctor is the leading Healthcare service Provider of **Dhanbad** and **Ranchi** and is also expanding to other districts and all of India. Recently it has collaborated with **Dhatu Online** to provide a range of premium healthcare services and to make appointment booking a lot convenient and cheaper.

## **OUR PRIDE**

#gems\_of\_bit







#### Mr. Divyanshu Sinha

Mining Engg. (2016-2020) Representative of successpapa.com

#### **Udany Edutech Pvt. Ltd**

Udany (pronounced as 'Yudaeny' meaning successful) Edutech Private Ltd is an online educational start-up, popularly Known as successpapa.com, and it was founded by a Mining Engineering student of BIT Sindri from 2kl6 batch. It helps budding college students by theoretically detailed knowledge about start-ups and provides them an opportunity to work as interns. It also helps college students to learn Digital Marketing at Facebook and for practical experience provides internship opportunities too.

Successpapa.com proved to be helpful during the lockdown period when teachers were suffering, it helped them to understand how to be a successful online teacher with best use of technology and helped many teachers enroll hundreds of students with the help of technology.

Udany Edutech Pvt. Ltd is recognized as a start-up by ABVIL-an SPV of e-governance, Government of Jharkhand, DPIIT-Ministry of Commerce & Industry Government of India. Currently, Udany Edutech Private Limited manages the website successpapa.com. To make everyone successful, it aims to provide extremely useful knowledge and skills to students and professionals. Successpapa also helped budding college student by theoretically detailed knowledge about start-ups and then for practical experience, it provides them opportunity to work as interns and learn so that they can have their own start-up.







PARESH RATHOUR
MINING ENGG.
BATCH (2017-2021)

My journey in the start-up cell commenced in the very beginning of 2nd year as in engineering, Sophomore year is the time when we explore ourselves and learn skills we always wanted to instill in ourselves. My journey in the cell has been very interesting. The cell helped me in inculcating entrepreneurial, managerial and communication skills and also taught me the importance of networking. I worked under the prodigious guidance of some of the best seniors.

I got a chance to work in two startups of our college which further enhanced my skills. The most fascinating aspect of the cell is that it welcomes ideas and help you nurture it.

Managing the Entrepreneurs Conclave, various seminars really assisted me in enhancing my leadership skills. I strongly appreciate the efforts of our Honourable Director and Prof. – in – charge in establishing the cell and supporting the innovative ideas of students in every possible way. I am thankful to my batchmates and juniors for their support and co-operation.

Hope the cell grows even more in the upcoming years.







DIVYANSH RANJAN CHEMICAL ENGG. BATCH (2017-2021)

It always amazed me how anyone with such a low capital can jump into a high risk market where the big giants with high capital refuse to invest. This question excited me a lot and that's the reason why I chose to be a part of Start-up Cell, BIT SINDRI. I was in my 2nd year when i got a chance to become a part of this amazing cell, full of enthusiastic students and professors working for the betterment of the society and nation. I am very fortunate to be a part of an Organization that deals with the problems of the society by a simple positive approach.

Every moment of life teaches you something either good or bad and college life is the age when Students can grab a lot of insights in their subjects as well as a lot of life skills like Team Management, managing work load and helping your mates and for me, Start-up cell played a crucial role to grab all of these.

On a final note "Rules are made to be broken. Be bold enough to live life on your terms, and never, ever apologize for it. Go against the grain, refuse to conform, take the road less traveled instead of the well-beaten path. Laugh in the face of adversity, and leap before you look. Dance as though EVERYBODY is watching. March to the beat of your own drummer. And stubbornly refuse to fit in."







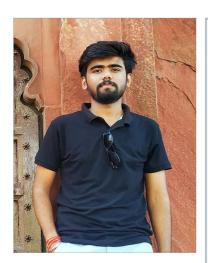
ARYA GARG ELECTRICAL ENGG. BATCH (2017-2021)

Towards the middle of my second year, I was inducted into IIC or what we popularly know as Startup Cell and little did I know that the organisation had so much in store for me. The idea of working and contributing to clubs and societies in the campus was not alien to me having been associated with plenty of them before this stint but the atmosphere in this budding place was different from what I had expected. This society of enthusiastic students looking at life from a more dynamic perspective presented an informal place to cultivate a plethora of ideas that would go ahead and materialise into plans. The professors were as vigorous as the students were. The seniors were as amazing as I could have expected at a corner in BIT. I owe to Startup Cell, multitudinous inspiring moments throughout the journey. I was initially apprehensive about how my batchmates and juniors would react to this unexpected and rather late addition to the team that I was, but to my surprise, I saw some of the closest bonds growing here within the organisation. Not just the bunch of batchmates who were amazing, my juniors proved to be zealous, inquisitive and above all, very lovable.

Through this platform, I got to interact with personalities in entrepreneurship conclaves in the campus and beyond and that was enriching to say the least. Furthermore, I got to work closely with my seniors' early age startups and that period was a steep learning curve right before the placement season begun for us. I would carry all the love that I have received here in a short span of time, all the everlasting memories with the most amazing group of people in the campus and the learning trajectory that I traversed as a part of a growing endeavour will stay close to me, for this lifetime and beyond.







HARSH
MECHANICAL ENGG.
BATCH (2017-2021)

To sum up all my takeaways from this cell, I would like to mention here

"Be determined like A Mirror, which does not lose its property to reflect even after broken in thousand pieces."

This saga began in the early months of 2019, when I got an opportunity to be a part of Startup cell and IIC 2.0, BIT Sindri. Initially working under my seniors and then working together with my juniors and leading the Cell from the front, imbued me with the feeling of responsibility and teamwork. Under the able guidance of our honorable director, B.I.T. Sindri, Prof. Dr. D. K. Singh and Prof. In-Charge, Startup Cell Dr. Prakash Kumar ,here at startup cell, we promote to build and bloom students idea from campus to incubators till the funding and successful transformation of Idea into a successful startups.

While working as Sr. Execution Coordinator Startup cell and Innovation coordinator of IIC 3.0, it was so enthralling to organize various seminars ,e-summit ,webinars, workshops, Idea pitching events where we all got a chance of getting mentored, networking and consultancy under the tutelage of our eminent alumni, Investors and established entrepreneurs.

I am grateful for all the experiential learning which I got here. This added flavor to my quality and aroma to my personality and all these will help me in keeping abreast with changing dynamics of society and career.

#### "Hitch your wagon to the stars."

I expect more involvement with even greater dedication vigor and zeal for the cell from our upcoming batches. Hoping for the exponential increment in the cell's stature. Thanking my professors, batchmates and juniors for their immense support and cooperation.

Au revoir.

# **Our Mentors and Experts**



Mr. S.N. Sharma



Mr. Ramesh Yadava



Mr. Santosh Anshumali



Ms. Kumud Sharma



Mr. Kamal Nath



Mr. Vinay Sharma

# **Our Mentors and Experts**



Mr. Gaurav Singh



Mr. Ravi Singh Choudhary



Mr. Chandrakant Singh



Mr. Sumit Kumar



Mr. Vikash Prajapati



Mr. Sourav Karmakar



#### **Notable Speaker**



Mr. RAJ JASWA, M.B.A., M.S., had earned a bachelor's degree in electrical engineering from the Indian Institute of Technology in Bombay, a master's degree in electrical engineering from the University of Toronto, and an MBA from Stetson University. He is an accomplished serial technology entrepreneur, teaches engineering entrepreneurship

at IIT Bombay, IIT Gandhinagar, VNIT Nagpur, and TIE Silicon Valley.

Previously, he served as CEO and chairman of Dyyno, and is also one of the co founders and is the CEO and chairman of Selectica, a configuration software vendor that had been listed as a Fortune 500 company during his tenure. He cofounded Opti where he worked as head of sales and marketing as well as president and put his notable efforts to grow the company and helped to become the world's largest supplier of PC chipsets. He also worked for Intel, General Electric, and Chips & Technologies.

In the midst of his career, Jaswa opted to volunteer full time for TIE Silicon Valley, serving as director, then president and trustee of the world's largest nonprofit dedicated to helping entrepreneurs. He is Adjunct Professor at IITB and at BIT Sindri, imparting entrepreneurship knowledge to thousands of future entrepreneurs.

## LIST OF SNSIC EXTERNAL MENTORS

Sl.	Name	Designation	Start-up/Org.	Email	Contact
	Mr. Ramesh Yadava	President of PRO NET an EED	American Organization for Development of Bihar.	fybitsindri@gmail.com	+1 (510) 813-3331
	Ms. Kumud Sharma	CEO	Super Seva Services Pvt. Ltd. Banglore	kumud@superseva.com	9945239351
	Mr. Sourav Karmakar	Managing Director	iB Arts Pvt Ltd	sourav@ibarts.in	7004325512
4	Mr. Vikash kr. Prajapati	Co-founder	Putoos Graphics and Math-e-Magic	vkpajeet@gmail.com	993418653
5	Mr. Ravi Singh Choudhary	Director	Sampurn Krishi Utthaan foundation	rsc.bitsindri@gmail.com	7004961425 8294009404
	Dr. Pankaj Mishra	Associate Professor & Associate Dean, Innovation & Incubation	IIT(ISM) Dhanbad	pankaj@iitism.ac.in	9470194401
	Mr. Sumit Kumar	Vice President, Operations	ABVIL, Ranchi	sumitk@iima.ac.in sumit.kumar.pgp2011@gmail. com	9905679258
	Mr. Sujeet Srivastava	Founder, CEO	ARENYAM Technologies	sujeetbits@gmail.com	8888852558
9	Md. Sajid Hussain	Director	Director Mount Everest Learning Foundation	mshussain24@gmail.com	9113104690
	Mr. Rajesh Jha	Director	Aggregate Innovations Pvt Ltd	rajesh@aggregateindia.com	8008802447
11	Dr. Santosh Ansumali	Associate professor	JNCASR, Banglore	ansumali@jncasr.ac.in	9449799801
12	Prof. Vinay Sharma	Professor in Charge, Innovation Cell	BIT Mesra (Off Campus Deoghar)	vinay1970@gmail.com	9431382632
13	Mr. Gaurav Singh	Co-founder	Myperfectice	gaurav@myperfectice.com	9434776350
14	Mr. N. K. Mehta	Director & Co-Founder	Wizdo Training & Consultancy	kamal.nath@sifycorp.com	+91 78999 96600

# LIST OF SNSIC INTERNAL MENTORS

Sl. No.	Name	Designation	Discipline	Email	Contact No.
1	Prof. D.K. Singh	Chairman	Director BIT Sindri	director@bitsindri.ac.in	9431445854
2	Dr. Prakash Kumar	Coordinator	Production	Kprakash_71@yahoo.co.in	9431340536
	Dr. R.P. Gupta	Co- Coordinator	Electrical	rgupta@bitsindri.ac.in	8340432424
4	Dr. Arvind Kumar	Co- Coordinator	ECE	aksingh738@gmail.com	8986567899
5	Dr. S Hembram	Member	Metallurgy	hembromsangram@gmail.com	9798427706
	Mr. Kashif Hasan Kazmi	Member	Production	kashifhasankazmi@gmail.com	9113775711
7	Mr. Mukesh Chandra	Member	Production	mchandra018@gmail.com	8404995995
8	Mr. Anand Kumar	Member.	Production	ak204204@gmail.com	7253046056
9	Mr. Rakesh Rohan	Member	Electrical	rrohanjd@gmail.com	7209750913
10	Mr. Biswaranjan Mishra	Member	Electrical	biswaranjan.ee@gmail.com	9437274388
11	Dr. Arvind Singh	Member	Chemical	indian.arvi@gmail.com	7571993333

## Incubation **POLICY**



#### **OVERVIEW**

SNS Incubation centre of BIT Sindri is first of its kind as Innovation and Entrepreneurship hub run by BIT Sindri under the state government of Jharkhand. The centre, located at G-11 of IT Building in BIT Campus, is committed to provide exposure to different work environments to its students as well faculties. It helps students to gain experience of working in a highly evoling and dynamic start-up environment. It provides bright and young innovative mind with space where they can nurture their start-up's ideas and build its prototypes. Incubation centre of BIT Sindri is currently incubating companies started by its students and is open to incubate compan-

ies from outside. Our incubation centre is equipped with various labs and infrastructure to support all kinds of start-ups including high technology start-ups as well. It helps to connect the incubatees to right mentors and thus helps to develop and scale up their technology or products and identify their market for legal and intellectual property related guidance.

#### **SALIENT FEATURE OF INCUBATION POLICY**

#### Admission for Incubation is open to:

- · All Engineering Graduates of BIT
- Faculty members (current and the past) & Permanent Staffs
- Alumni
- BIT's R&D partners/ Research Partner Institute (sponsors of R&D and consultancy projects)
- Government agencies associated with BIT Sindri research and innovations
- · All Engineering and Non -Engineering Graduates of our country (registered in Jharkhand
- Society at Large

#### The proposals or application for incubation must meet with one or more of the following parameters:

- Proposals with Intellectual Properties (IP) generated within BIT Sindri and transferred to the company for consideration
- Proposals with IP belonging to faculty, student or alumni (created outside BIT)
- Proposals with potentials for strong identifiable involvement or interaction with BIT faculty with/without the usage of BIT facilities

# How to apply for Incubation Center in BIT SINDRI?

#### <u>Procedure to register/ apply for Incubation space at SNS Incubation</u> Centre, BIT Sindri -

- 1. Send an application for Incubation space through email to Prof.in charge, Incubation Centre at -- "prakashkr.prod@bitsindri.ac.in" Or "entrepreneurialcell@bitsindri.ac.in"
- 2. The application consists of complete proposal and brief profile of the company/startup
- 3. The Business Plan and Proposal must include:
- a) Value Proposition
- b) Customer Seament
- c) Channels: Sales Channel
- d) Customer Relationship: How to connect
- e) Revenue Generation
- f) Key Resources of the Company
- g) Key Partners and Suppliers
- h) Major/ Key Activities: Development and deployment of Useful Technology
- i) Cost: Advertisement and Marketing, website cost, other office expenses etc.

Link for Business Plan and Proposal Template:-

https://drive.google.com/file/d/1hH5B-VNz8QuPrvaxO-4DJ7CkIVF3DM7t/view (This is a general prescribed template, but one can modify it according to his/her convenience).

- 4. After review from SNS internal as well as external committee, the space will be alloted to the incubatees/ startups/company.
- 5. Incubatee office space includes: 1 Desk, 1 Seat, Filing Cabinet, Electricity, Secure Wi- Fi, Access to all Departmental Laboratories, Centre of Excellence: Siemens Lab, Nano Technology Lab, IoT Lab etc., Access to Printers, Scanner and Copiers, Conference Room, Restroom Facility, Cafeteria and 24 hours access.

Monthly rent ₹1000/- for one Seat and ₹3000/- for one cubical space/ unit (4 seats, 4 desks, 4 filing cabinets etc.) Rent period: 11 months

Terms: The startup/ incubatee/company will have to abide by the terms and conditions of SNS Incubation Centre.

The agreement allows the incubatee/ startup/ company to use the alloted space as registered office for his/their startup/incubatee/company.

Link for Incubation Policy :-

https://drive.google.com/file/d/16tySXEFmlJUeAnkRrl-EwpCgVbOAOqXz/view

Details are also available on the website of BIT Sindri under the tab startup and Incubation.

Any incubatee/ Startup/ company, who has registration under Jharkhand Government, can apply for it.

# Incubation CENTER

















## MBA in innovation on BIT-Sindri radar

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# BIT eyes incubation lab on Sindri campus Simulation of the control of the contro

#### **OUR INCUBATEES**





#### ARENYAM Technologies (OPC) Pvt. Ltd.



#### Founded by Sujeet Srivastava IT Professional

- Mechanical engineering graduate from BIT Sindri
- Executive Business Management from IIM Kolkata
- Have work experience in the field of Information technology (IT) and Oil & Gas Industries

#### Vision

- ARENYAM Technologies (OPC) Pvt. Ltd. Is founded in 2021 with a vision to develop custom software solutions to cater to users of engineering design software.
- Idea is to fill the gap between generic design software and the specific need of its users. Such plug-ins help users to improve quality of output and project timeline.
- Time is ripe to use cutting edge technologies like predictive analysis, cloud, data science etc. in this field.
- Additionally, with an aim to benefit Engineering graduates,
   Arenyam Technologies shares industry grade technical exposure
   through its specially designed courses on latest technologies like
   Data Science, Cloud based developments, Python, Core Java and
   Project Management which has industry grade examples.

#### **OUR INCUBATEES**





#### yourFirstAD



#### About yourFirstAD

yourFirstAd is a coliseum that connects social media with brands. A most worthwhile way to trade a product for a brand and the easiest way to earn money.

#### Vision

We are heading with the vision of making the world's largest digitalized advertising ecosystem.

#### FirstAd was founded by five undergrads of BIT Sindri

- Shanu Anand, Mining Engineering
- Akash saw, Electrical Engineering
- · Milan kashyap, Civil Engineering
- Pravin kr. Tripathi, Mechanical Engineering
- · Rishab Mallick, Information technology

#### **Features for Brands**

A sprouting business's biggest concern is exposure. To ensure that the aim and vision reaches across masses at a wide range, we've taken it upon ourselves to provide with the most effortless yet effective services by the following features -

- We facilitate creative methods to reach target audience.
- 2. We connect the most compatible social media influencer using our predictive methods.
- 3. We provide effective methods to remarket the products/services using affiliate programs or influencer marketing

#### **OUR INCUBATEES**





#### **MORPH Software**



Established in 2009 with headquarter in Africa, Singapore and offices at Kolkata, Delhi and Bangalore

- Primarily focused on IT Services and Product Development
- Served more than 100 Customers across Singapore and Hong Kong markets
- Has about 75 employees located across Singapore, Hong Kong, Hyderabad and Bangalore
- Team Experiences span across different industries and technologies

#### Services-

- Data Analytics and Visualization
- Cloud Services
- ERP Implementation
- Artificial Intelligence & Machine Learning
- · Mobile application development
- Embedded System
- loT

#### **Onsite - offsite Delivery model**

- · Flexible development methodology Agile or Waterfall
- · Clear identification of deliverables
- · Defining milestones for phased delivery
- Implementation of project management tool such as JIRA
- Creation of communication and escalation plan with clear definition of roles





#### myKalit

"myKalit' meaning my artistry is a far-sighted word whence we share a common perception that everything you can imagine is real. We here at myKalit go by the conjecture that creativity is inventing, experimenting, growing, taking risks, breaking rules, making mistakes and having fun. Connecting you to proficient artists and designers to make your space stylish and attractive is our adage.

#### Founded by -

- Roshan Kr. Rajak, BIT Sindri, Dhanbad
- · Adhya Keshri, BIT Sindri, Dhanbad
- Suraj Kachhap, BIT Sindri, Dhanbad
- · Ravi Sankar, BIT Sindri, Dhanbad

#### **Smart Cash**

Now a days it is difficult for a company or individuals to manage their expenses and to track their expanse and smart cash is working in this problem to provide smart and innovative solution to the company by managing the spending and control the expenditure for the maximum output and simplify the book keeping. By provide the best options or the inferred option available for any company by integrating to the marketing system. Smart solution receipt management and Market Research for different company so that they can choose the best option for their company. Founded by –

- · Ronit Kumar, BIT Sindri, Dhanbad
- · Sumit Ranjan, BIT Sindri, Dhanbad

#### Saarthi

Road accident is a heavy loss to life of any nation or family and prohibition of this is an important and crucial issue to deal with. So this idea deals with it in an effective manner. It completely tackles with the problem of collision of vehicle with its other part and any other obstacle. If in any case the vehicle flips then if the driver is safe and fine then the rush of ambulance is not there and if he is unsafe then the close relative is informed else the ambulance. So it saves time of ambulance at the same place. Safety is a prime motive in today's world for all and even by the government of India. Our model deals with this in one of the major part to be taken care of in today's era. As we are losing life so is our human resources decreasing and hence is an important part of the modern era. Founded by –

- Abhinav Kr. Sah, BIT Sindri, Dhanbad
- Rahul Kr. Singh, BIT Sindri, Dhanbad



#### Frequency Automobile Pvt. Ltd.

The problem is on automobile sector regarding safety issue, Accident issue. According to annual global road crash statistics view the WHO's info graphics on road safety facts is that nearly 1.25 million people die in road crashes each year on average 3,287 death a day. In which the maximum cause of vehicle accidents is that COLLISION. FRONT TO FRONT collision, BACK TO HIT collision, SIDE collision. This is a problem and our startup is trying to solve it. So, we claim that if vehicle accident conditions like in this front to front, back to hit, side collision on that moment passenger will get saved by our innovative vehicle.

Founded by -

RANI KUMARI, BIT Sindri, Dhanbad

#### **Keto Food Diet Outlet**

A keto food Outlet diet is an eating plan that focuses on foods that provide a lot of healthful fats. Adequate amounts of protein, and very few carbohydrates. The goal is to get more calories from fat than from carbs. The diet works by depleting the body of its sugar reserves. It takes time and effort to get used to the new form of cooking and your new lifestyle. The same is with the keto diet. It comes with small challenges that may hinder your diet. Here are some of the biggest challenges faced by people starting on the keto diet and some easy solutions to them. Founded by –

- SOURAV SUMAN (19PG030), BIT Sindri, Dhanbad
- B RAVI KUMAR (19PG036), BIT Sindri, Dhanbad

#### First Harvests

A Fresh produce Supply Chain dedicated to Fruits and Vegetables, connecting Farmers to Consumers and Businesses. Our Vision is to transform the current Fresh Produce supply chain using Technology. Our Minimum Viable Product is active in Bokaro, Jharkhand. Current laws of the Indian government, of market open for farmer's all around country and in adequate supply chain of the fresh vegetables and fruits, which cause wastage of the vegetables and fruits. This reason makes to start our venture.

Founded by -

Lucky Anand, BIT Sindri, Dhanbad





#### GET-MAID

GET-MAID offers a different level of service ranging from part time to regular working maid/servants, plumber etc. The house maid/servants can be hired for a specific time slots ranging from an hour to months. It caters to the basic household needs whether it be cleaning, cooking or running errands.

We take care of the hygiene of our employees as well. Customer satisfaction is our first priority. Founded by –  $\,$ 

- · Ashutosh Kumar, BIT Sindri, Dhanbad
  - Rewti Raman Sahu, BIT Sindri, Dhanbad
- · Subhadeep Bakshi, BIT Sindri, Dhanbad
- Aditya Jha, BIT Sindri, Dhanbad

#### Your WellBeing

My company and app Purpose is to mentor depressed people and make the people motivated and happy. I am creating a good guidance and mentorship for depressed people. Making people motivated and fresh, making people rid out of the problem of depression. Our company will first target that type of people means mental unhealthy and depressed and will provide better facility to reduce their life stress and to balance their life. Our mainly product will available on our app. We will provide best people or Trainers to the people. Founded by –

· Bikash Kumar Paswan, BIT Sindri

#### Recyclable BIO- CNG

Our vision is to establishing modern manufacturing facilities to produce next generation renewable clean fuels such as Bio-CNG and Recyclable piped or bottled Natural Gas. Replacement of fossil fuels. Use Bio-CNG. Improve rural hygiene. An important step towards fulfilment of India's COP-21 commitments for carbon emission reduction.

#### AJRAJY

The company aims to provide interface to almost every rental and welfare services on a large scale across different cities. Not only these, it also aims to enhance the technical services offered like intra and inter payment services, etc. It provide facilities like renting trips at finger tips hassle free rooms in ranged price points it is user/market friendly.

#### Founded by -

- Anirban roy, B.I.T. Sindri, Dhanbad
- Ritwik anand, B.I.T. Sindri, Dhanbad
- Vikash prasad, B.I.T. Sindri, Dhanbad
- · Rishi roshan, B.I.T. Sindri, Dhanbad





#### PORTFOLIO & REPLICA

Not only dedication but also an ease with the job is what everyone aspires for and to contradict this for an instance, the students have to face the shortage of books in the market, this isn't something that'd help in the overall growth of the country. With an idea to eradicate the hustle and bustle in the market, Portfolio & Replica is providing an online platform for books and the required notes at prices even less than those in the market, door step delivery without any piracy issues. We are trying to nourish the young minds.

#### Founded by -

- · Abhinav Prakash, B.I.T. Sindri, Dhanbad
- · Milan Kashyap, B.I.T. Sindri, Dhanbad
- · Vineet Chandra Gokhale, B.I.T. Sindri, Dhanbad
- · Nikhil Kumar, B.I.T. Sindri, Dhanbad
- · Imran Nazir, B.I.T. Sindri, Dhanbad

#### Little odd jobs

Our country produces some of the brightest star, which are very special and unique in their respective. Only thing is because of our carelessness they escape every time, resulting in our loss, and I am not okay with this, why is that, they eat from our earth but work for others. This is neither cool nor good for our economy. That's why, why don't we make a supportive economy where every competition is there but it helps each other to develop together. Best part is because of this support we will never go in loss. And some way or another it might look that we are at loss but opposite will happen every time. "Building trust means loyal customers". Employment in India is really a questionable. Either person has to struggle a lot, or he starts his own business or in worst case, so why not make these people do the work in which they are best at. And since we recommended them well charge is very minimum fee. As a charge of recommendation.

Sharan Paul Sinku, BIT Sindri, Dhanbad

#### E-platform to avail blood/blood components

A platform to provide the needy (initially we may focus on pregnant ladies) with blood and blood components and also with volunteers. People, a lot of times, had to face death due to lack of-blood and proper information of the blood related services provided near their area of stay , which is why there needs to be a service which may cater to this need of the people. Also, now in the time of COVID, people need plasma transfusion very often and for this of course they need a donor. Founded by –

- Shikha Rani, BIT Sindri, Dhanbad
- Johnson Oraon, BIT Sindri, Dhanbad
- Abhishek Soren, BIT Sindri, Dhanbad
- · Nandani Kumari, BIT Sindri, Dhanbad

# ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS









### **Certificate of Appreciation**

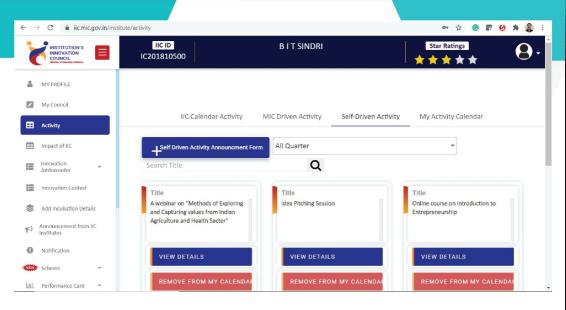
This is to certify that

B I T, Sindri

is categorized as 'Band A' institution (rank between 06-25) in category of 'Institutes & Colleges (Govt. and Govt. aided)' in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2020 announced on 18<sup>th</sup> Aug 2020.

**Dr. Anil D Sahasrabudhe** Chairman, AICTE **Sh. Amit Khare** Secretary (HE), MHRD **Dr. Abhay Jere** Chief Innovation Officer MHRD's Innovation Cell

## Home page BIT- Portal IIC



## Certificate of Appreciation



## Annual Calendar Activities for IIC 3.0

Time Line	Activities	Remark
	Online induction for IIC 3.0 faculty and student members and formation of IIC 3.0 council for 2020-21	Online mode
	Conduct meeting for overall action plan and 1±Quarter Action Plan to be decided	Online mode
	My Story – Entrepreneur's Life & Crossroad – Motivational Speak – To be Share by Entrepreneurs	Online mode
	Activity of Online survey using social media, survey tool etc. to identity real Life Problem of society	Online mode
Quarter I Aug. to Sept 2020	Organize a webinar/workshop/Seminar on Innovation/Social Innovation & Entrepreneurship	Ongoing Online
<b>Quarter II Oct to Dec 2020</b> (Include Semester Break)3	Progress Monitoring and Upload of 2∞ Quarter Action Plan with Minutes of Meeting of Council	Mandatory
	Organize One Day Workshop on Problem Solving/Design Thinking/Ideation Workshop/ Campus Hackathon etc.	Online mode
	Product Development Phases – Story Telling – (Innovators in Campus)	Online mode
	Demo Day – Exhibition Cum Demo for PoCs & Mentorship Session for Innovators (or) Student Entrepreneurs (for college campus student)	Online mode
Quarter III Jan to March 2021	*Progress Monitoring and Upload of 3₁ Quarter Action Plan with Minutes of Meeting of Council	Mandatory
	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre	Offline
	Organise Workshop on Business Model Canvas (BMC) and (or) Business Plan Competition to Invite Innovative Business Models from Students	Offline
	Session/Mentoring Session "Hangout with Successful Start-ups" (Entrepreneurs in Campus)	Offline
	Field/Exposure Visit to Design Centre/Makers' Space/Fab Lab/Prototype Lab/Tinkering Lab etc	Offline
	*Progress Monitoring and Upload of $4_{\rm th}$ Quarter Action Plan with Minutes of Meeting of Council	Mandatory
	Organise One Day Awareness/Mentoring Session on IPR & IP Management for Innovation and Start-ups	Offline
Quarter IV April to June 2021 Include Semester Break)	Organise One Day Awareness/Mentoring Session on IPR & IP Management for Innovation and Start-ups	Offline
	Session on Accelerator/Incubation - Opportunity for Student Faculty - Early Stage Entrepreneurs	Offline
	Session on Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs	Offline
	Demo Day – Exhibition Cum Mentorship Session for Student & faculty Start-ups to Showcase	Offline

Type of programs/ Activities	Number of participation Expected	
Field visits	30-40	
Workshop or Seminar	60-100	
Awareness/motivational/ Expert lecture session	More than 150	

Both student and faculties will be participating in these programs Target Mass – Faculties & Students of Semesters I, III, V, VII

# Faculty Representation IIC 3.0

Sl. No	Name	Council Member Role	Designation	Department
1	Dr. Prakash Kumar	President	Professor	Production Engineering
2	Mr. Mukesh Chandra	Convenor	Assistant Professor	Production Engineering
3	Prof. Ghanshyam	Internship coordinator	Professor	Physics
4	Ms. Rupali Kumari	Innovation activity coordinator	Assistant Professor	IT
5	Mr. Kashif Hasan Kazmi	Start-up activity coordinator	Assistant Professor	Production Engineering
6	Mr. Rakesh Rohan	IPR activity coordinator	Assistant Professor	Electrical Engineering
7	Dr. Arvind Singh	Social Media Coordinator	Assistant Professor	Chemical Engineering
8	Mr. Praveen Kumar	NIRF coordinator	Assistant Professor	Electrical Engineering
9	Mr. Babul Das	ARIIA Coordinator	Assistant Professor	Metallurgical Engg.
10	Mr. Saurav Jain	Member	Assistant Professor	Mining Engg.
11	Mr. Anand Kumar	Member	Assistant Professor	Production Engineering
12	Mr. Biswaranjan Mishra	Member	Assistant Professor	Electrical Engineering
13	Ms. Pritika Singh	Member	Assistant Professor	Electronics & Communication Engineering
14	Dr. Purushottam Kumar Singh	Member	Assistant Professor	Mechanical Engg.

## **Expert Representation IIC 3.0**

Sl. No.	Name	Designation	Start-up/Org.	Email	Contact No.
1	Mr. Gaurav Singh	Co-Founder	My Perfectice	gaurav@myperfectice.com	9434776350
2	Mr. Sumit kumar	Vice President	Operations ABVIL, Ranchi	sumitk@iima.ac.in	9905679258
3	Dr. Santosh Anshumali	Associate professor	JNCASR, Bengaluru	ansumali@jncasr.ac.in	9449799801
4	Mr. Amar Kumar Yadav	Entrepreneur	Oil and Gas Industry	amar28091975@gmail.com	8850398742
5	Dr. Pankaj Mishra	Associate Dean, Innovation & Incubation	IIT (ISM) Dhanbad	pankaj@iitism.ac.in	9470194401
6	Mr. Ravi Singh Choudhary	Director	Sampurn Krishi Utthaan Foundation	rsc.bitsindri@gmail.com	7004961425 8294009404
7	Mr. Sujeet Srivastava	Founder, CEO	ARENYAM Technologies	sujeetbits@gmail.com	8888852558
8	Ms. Kumud Sharma	CEO	SuperSeva Services Pvt. Ltd	kumud@superseva.com	9945239351
9	Mr. Sourav Karmakar	Managing Director	iB Arts Pvt Ltd	sourav@ibarts.in	7004325512
10	Mr. Sajid Hussain	Director	Mount Everest Learning	Foundationmshussain24@gm ail.com	9113104690
11		Product Manager, PAYBACK	PAYBACK. Technical University Munich	srijan.manish@gmail.com	+49151453520 65

# Student Representation IIC 3.0

Sl. No.	NAME	Roll No.	YEAR	Branch	Role
1	Mr. Shubham Raj	1706043	4th	ECE	Start-Up Coordinator
2	Mr. Abhinav Prakash	1806002	3rd	ECE	Start-Up Coordinator
3	Ms. Navinetra	1804096	3rd	Chemical Engineering	Start-Up Coordinator
4	Mr. Abhinav Kumar Sah	1800002	3rd	Mechanical Engineering	Start-Up Coordinator
5	Mr. Amisha Kumari	1706005	4th	ECE	Start-Up Coordinator
6	Mr. Nikhil Kumar	1804038	3rd	Chemical Engineering	Start-Up Coordinator
7			3rd		<del>• •</del>
	Ms. Somya Kumari	1804072		Chemical Engineering	Start-Up Coordinator
8 9	Mr. Aman Kumar Garg	1805101	3rd	Civil Engineering	Social Media Coordinator
	Mr. Roshan Kumar Rajak	1800064	3rd	Mechanical engineering	Social Media Coordinator
10	Mr. Pankaj Kumar	1808024	3rd	Mining Engineering	Social Media Coordinator
11	Mr. Arya Garg	1701026	4th	Electrical Engineering	Social Media Coordinator
12	Mr. Sanu Kumar	1800075	3rd	Mechanical engineering	IPR Coordinator
13	Mr. Aditaya Burnwal	1806008	3rd	ECE	IPR Coordinator
14	Mr. Nilesh Kumar Tiwari	1706029	4th	ECE	IPR Coordinator
15	Mr. Divyansh Ranjan	1704021	4th	Chemical Engineering	IPR Coordinator
16	Mr. Shivam Singh	1802034	3rd	Production Engineering	IPR Coordinator
17	Mr. Milan Kashyap	1805051	3rd	Civil Engineering	IPR Coordinator
18	Mr. Shanu Anand	1808037	3rd	Mining Engineering	IPR Coordinator
19	Mr. Gautam Kumar	1804100	3rd	Chemical Engineering	Internship Coordinator
20	Mr. Anurag Shrivastava	1706011	4th	ECE	Internship Coordinator
21	Mr. Kishlay Kumar Mahto	1700035	4th	Mechanical Engineering	Internship Coordinator
22	Mr. Rewti Raman Sahu	1805069	3rd	Civil Engineering	Internship Coordinator
23	Ms. Adhya Kumari	1809002	3rd	CSE	Innovation Coordinator
24	Mr. Harsh	1700031	4th	Mechanical Engineering	Innovation Coordinator
25	Mr. Apoorv Ashish Parmar	1808005	3rd	Mining Engineering	Innovation Coordinator
26	Mr. Paresh Rathour	1708024	4th	Mining Engineering	Innovation Coordinator
27	Mr. Abhishek Kumar	1909001	2nd	CSE	General Member
28	Mr. Anshu kumar	1900017	2nd	Mechanical Engineering	General Member
29	Ms. Priyanka Pandey	1901114	2nd	Electrical Engineering	General Member
30	Ms. Riya Kumari	1909042	2nd	CSE	General Member
31	Ms. Kriti Kumari	1901113	2nd	Electrical Engineering	General Member
32	Mr. Basudeb Mishra	1908009	2nd	Mining Engineering	General Member
33	Md Aamir Akhtar	1904035	2nd	Chemical Engineering	General Member
34	Md. Imran Nazir	1905037	2nd	Civil Engineering	General Member
35	Mr. Nishu Sinha	1901060	2nd	Electrical Engineering	General Member
36	Mr. Adarsh Arya	1905007	2nd	Civil Engineering	General Member
37	Mr. Arbind Kumar Gupta	1805023	3rd	Civil Engineering	General Member
38	Saurabh Bhardwaj	1804066	3rd	Chemical Engineering	General Member
39	Himanshu Ranjan	1803014	3rd	Metallurgy	General Member
40	Anshuman Singh	1804086	3rd	Chemical Engineering	General Member
41	Vineet Chandra Gokhale	1804092	3rd	Chemical Engineering	General Member

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