



स्टार्ट-अप सेल: प्रोकोसॉल

Start-up Cell: Prakousol

National Institute of Technology Arunachal Pradesh

Yupia, Papumpare, Arunachal Pradesh-791112, India, www.nitap.ac.in



Prakousol
NIT Arunachal Pradesh

Financially supported Students start-up project for the session 2019-2020 under TEQIP-III:

Sl. No.	Title of Project	Name of Students	Mentor Name	Total Budget(₹)
1	Multi-task Photographer Camera robot(M-T PCR)	Katit Modi, ME/17/02	Dr. P. K. Mohanty, Dept. of ME	₹80,000/- (continue)
2	Regional India	1. Sudhanshu Kr. Tiwary, CSE/17/01 2. Devendra, CSE/17/06 3. Chammoun Chakhap, CSE/17/17 4. Dinesh Godara, CSE/17/14 5. Saksham Goyal, CSE/17/13	Mr. Sumit Nandi Trainee Teacher, Dept. of CSE	₹50,000/- (Closed) (They didn't used the sanctioned money)
3	Autonomous Drone flight Controller on Embedded Systems	Vikas Kumar, CSE/17/08 Arpit Gupta, CSE/17/02	Dr. P. K. Mohanty, Dept. of ME	₹90,000/- (continue)
4	Ferrofluid Deformable Mirror for Atronomical Telescope	Sayan Pakira (CHE/17/11)	Dr. T. D. Das Dept. of BAS	₹30,000/- (continue)
5	Smart Vest	Sourav Sarkar ECE/17/17	Dr. T. D. Das Dept. of BAS	₹30,000/- (continue)
Total Cost				₹2,80,000/-

MHRD Innovation Cell (MIC) that Institution's Innovation Council (IIC) for NIT Arunachal Pradesh is formed as per the prescribed format by MIC under the Presidentship of Prof. P. K. Mahanta (Director of NIT Arunachal Pradesh), we are committed to support activities suggested by MIC as per the prescribed schedule and timelines. Please find below the details regarding council members.

Constitution of Institution's Innovation Council (IIC's2.0):

Position	Division of Work	Name
Vice President	Performed the role as Head of Council. Initiate, identify and form the council and assign the role and responsibility to members	Dr. Mainak Mallik, Associate. Prof. CE, NITAP
Convener	Immediate point of contact and coordination.	Dr. T. D. Das, Asst. Prof. BAS (Physics)
Innovation activity coordinator (Faculty)	Primary responsible for organising and coordinating after Innovation promotion activities and extend support to other activities.	Dr. T. D. Das, Asst. Prof. BAS (Physics)
Start-up	Primary responsible for organising and	Dr. Sahadev Roy,



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activity coordinator (Faculty)	coordinating after Startup promotion activities and extend support to other activities	Asst. Prof. ECE
Internship coordinator (Faculty)	Primary responsible for organising and coordinating after Internship opportunity and engage student in Start-ups, innovation labs and incubation centre etc. to promote innovation activities and extend support to other activities.	Dr. Swarnendu Kumar Chakraborty, Asst. Prof., CSE
IPR activity coordinator (Faculty)	Primary responsible for organising and coordinating after IPR mentoring, awareness opportunity to promote innovation activities and extend support to other activities	Dr. Saikat Kumar Jana, Asst. Prof., BioTech
Social Media Coordinator (Faculty)	Primary responsible for organising and coordinating after social media promotion and public relation and effectively communicating regarding various activities undertaken to promote innovation activities and extend support to other activities	Dr. Subhasish Banerjee, Asst. Prof., CSE
ARIIA Coordinator (Faculty)	Primary responsible for creating repository and advising on more innovation and startup activities in campus to increase the ranking in ARIIA and also extend support to other activities.	Dr. Rajat Subhra Goswami, Asst. Prof., CSE
NIRF coordinator (Faculty)	Primary responsible for creating repository and advising on more innovation and Research activities in campus to increase the ranking in NIRF and also extend support to other activities.	Dr. Rajat Subhra Goswami, Asst. Prof., CSE
Expert Representation		
IP Expert/Patent Expert		Mr. Siddhartha Devnath Scientist-C Patent Information Centre- Assam (Under support of Department of Science & Technology, Govt. of India) Assam Science Technology & Environment Council
Alumni Entrepreneurs		Mr. Shirsha Ghosh Co-Founder, Torit Innovations / Things (Hardware) Developer for IoT/ Fintech Enthusiast, Bangalore
Representative from nearby Incubation Centre		Dr. Sokhomoy Pal TePP outreach cum Cluster Innovation Centre (TOCIC), IITGuwahati
Technical Experts from nearby Industry		Dr. Pulak Munshi, Technical Director, M. N. Dastur & Co. (P) Ltd, Kolkata



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Student Representation		
Innovation coordinator		1. Katit Modi, ME/17/02 2. Kajal Kumari, ME/17/19 3. Mikgan Mossang, ME/19/22
Start-up coordinator		1. Syan Pakira, CHE/17/11 2. Kashish Singh, EE/19/27 3. Nitish Kumar, 1 st yr 4. Dhanasree S Poduval
Internship coordinator		1. Anshuman Mishra, CE/17/09 2. Amit Kumar, ME/17/16 3. Ashutosh Singh, BT/17/09
IPR coordinator		1. Chandra Chandan, CHE/17/04 2. Manjeet Kumar Mahto, ME/17/14
Social Media coordinator		1. Vikash, CSE/17/08 2. Arpit Gupta, CSE/17/02 3. M. Saksham Goyal, CSE/17/13 4. Darshita Jhujhunwala
General Members		1. Aryan Garg, ECE/17/15 2. Pallabi Roy 3. Nidhi Singh, EE/17/14 4. M. Sri Teja, CE/17/02 5. Aman Kumar, EE/19/21 6. Kashish Singh, EE/19/22

*******Events and Workshop Conducted by Startup Cell: Prakousol*******

My Story - Entrepreneur's Life & Crossroad - Motivational Speak - To be Share by Entrepreneurs was held on 30th September, 2019 from 1:00PM to 2:00PM at Auditorium, NIT-AP by our Alumni

About Speaker:

Mr. MOLOY BORAH received his M. Tech degree in ATEP from NIT Arunachal Pradesh in 2016. Now, He is a Director / Partner registered by Registrar of Companies under Ministry of Corporate Affairs (MCA) since 24th April, 2018. Director's Identification Number i.e. DIN of MOLOY BORAH is 08119041. For Obtaining a unique DIN Number 08119041, MOLOY BORAH had to register a DSC i.e. a Digital Signature Certificate with the Ministry of Corporate Affairs (MCA).





Outcome of the Deliberations:

In this session many students are participated and motivated after lessening inspirational talk by our alumni entrepreneur and director of M/S ANTCO INDIA PRIVATE LIMITED is located in Lakhimpur, Assam.

Report on Idea Competition

Idea Competition event at Auditorium, NIT Arunachal Pradesh will be held on 30th September 2019 from 9 AM-5 PM. We have conducted an Idea pitching event for our B. Tech and M.Tech Students in our Campus and total 17th groups of more than 30 students have participated in this event, which was held on 30th Sept.2019. From this idea pitching event, we have selected the 1st, 2nd, and 3rd position groups and they had awarded by IIC and NITAP.

Few Photos taken during Idea Pitching was held on 30th Oct. 2019:



Team3: Avang and Ms Hage



Team4: Katit



Team8: Ms. Mikgan



Team9: Nitish and Abujum (1st Place)



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Team11: Ankit, Sashank, Rajit & Khurshid Team10: Ms. Rominita, Onima and Khusboo
 (2nd Place)



Group Photos of Idea Competition after selecting 1st, 2nd and 3rd Place (Middle six members)

Event Outcomes:

1. Cultivate innovative idea generation culture in our campus
2. Both boys and girls students have participated in this event
3. They have got a participation certificate from IIC and inspired every one
4. 1st, 2nd, and 3rd team got prizes from IIC sponsored by TEQIP-III

Workshop Report

“Idea Generation and Creative Thinking”, “Awareness Programme on Intellectual Property Rights (IPR)” and Idea Competition at Auditorium, NIT Arunachal Pradesh was held on 30th September 2019 from 9 AM-5 PM

Schedule of Events

Time	Monday, 30th September 2019
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9:00 to 9:45AM	Registration
9:45 to 10:00AM	Welcome
10:15 to 10:20AM	Warm-Up Session/Photo Session
10:30 to 11:30 PM	Lecture 1: Dr. Jainendra Kumar Verma, Asst. Prof. Department of Economic Studies, Central University Punjab Title on: "Idea Generation and Creative Thinking"
11:30-1:00PM	Lecture 2: Dr. Pulak Kumar Munshi (Technical Director at M. N. Dastur & Co. (P) Ltd), Kolkata Title on: "Industrial Revolution and Present Day Engineering Activities in Industrial Projects"
Lunch Break:-1:00 to 2:00PM	
2:00PM-3:30PM	Lecture on IPR: Mr. Gauravjyoti Talukdar, Assam High court and Mr. C. D. Mungyak, ASCST Arunachal Pradesh
3:30PM-6:00PM	Idia Pitching by Students

The banner features the NIT Arunachal Pradesh logo at the top left. The main text reads: "NATIONAL INSTITUTE OF TECHNOLOGY Arunachal Pradesh". Below this, it says "One Day Workshop on 'Idea Generation and Creative Thinking' & Idea Competition". The event is organized and sponsored by the Institution's Innovation Council (Ministry of HRD Initiative) and TEQIP-3 (Technical Education Quality Improvement Programme). The Prakousol logo is also present. The date and time are listed as "30th September 2019 Monday" and "10:00 AM-1:00 PM Workshop, 2:00 PM-3:30 PM IPR, 3:30 PM-5:00 PM Idea Pitching". The background includes icons of a lightbulb, a gear, and a hand holding a device.

Fig. 1: Digital Banner



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Fig.2: Inauguration Session and Director Speech (Prof. P. K. Mohanta)



Fig. 3: Invited Speech by Dr. Jainendra Kumar Verma, Asst. Prof., Department of Economic Studies, Central University Punjab

About Key Speaker:

Dr. Jainendra Kumar Verma, Asst. Professor, Department of Economic Studies, Central University of Punjab, Bathinda



Fig. 5: Invited Speech by Dr. Pulak Kumar Munshi (Technical director at M. N. Dastur & Co. (P) Ltd), Kolkata

About Key Speaker:

Dr. Pulak Kumar Munshi is currently Technical Director and HOD - Civil of M. N. Dastur & Company (P) Ltd., Kolkata. He received his B.E. degree from Bengal Engineering College, Shibpur (presently IEST). He earned the Ph.D degree from Jadavpur University. He has 36 years of experience in design engineering work for various concrete structures and heavy equipment foundations associated with various steel plants, power plants, cement plants etc.



Fig. 6: Invited Speech by Mr. Gauravjyoti Talukdar, Assam High court

About Speaker:

He graduated from NEF Law College under Guwahati University in L.L.B in the year of 2015. KMNP LAW, New Delhi, January 2019 to Present



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- a) Dealing with various matters relating to Land Acquisition, Arbitration & Conciliation, Corporate and Commercial law, Criminal and Other Civil Matters, Intellectual Property Law, Medical Negligence, Consumer Protection etc.
- b) Visit to Hon'ble THE SUPREME COURT OF INDIA, dealing with various SLP's.
- c) Visit to Delhi High Court.
- d) Visit to National Company Law Appellate Tribunal, New Delhi.
- e) Visit to National Consumer Dispute Redressal Forum, New Delhi.
- f) Visit to Saket District Courts, New Delhi.
- g) Visit to various Courts and Tribunals in Delhi/Gurgaon/Noida.

Workshop Outcomes:

Thinking/Design Process:

1. Students develop a strong understanding of the thinking/Design Process and how it can be applied in a variety of business settings
2. Students learn to research and understand the unique needs of a company around specific challenges
3. Students learn to build empathy for target audiences from different "cultures"
4. Students learn to develop and test innovative ideas through a rapid iteration cycle
5. Students learn how to create physical prototypes / visual representation of an idea
6. Students develop the willingness to take a risk and the ability to deal with failure

Intellectual Properties Rights:

1. Students learn to understand the procedures to convert the research outcome into patents.
2. Learn awareness about the need and importance of Intellectual Property Rights (IPR) among the faculty and students through periodic workshops.
3. Students understand to filing of applications for patents and other IPR.
4. To recommend financial assistance for filing IPR, by the faculty and students of the Institute as per the norms of the institute.

Report on Students internship for November-December, 2019:

In this duration 25/11/2019 until 01/01/2020, We had been assigned to all students for doing their internship at any of the below-listed companies' name (1) Indian Oil Corporation Limited, Barauni Refinery, (2) Central Tool Room & Training Center, (3) Zeetron Networks Pvt Ltd., (4) ONGC Mumbai, (5) Oil and Natural Gas Corporation Ltd, (6) National Highway Authority of India, (7) Purvanchal Vidyut Vitaran Nigam, (8) Mechanical Worksop, N. E. Railway Gorakhpur, (9) Kali Sindh Thermal Power Project, Jhalawar, (10) Uttar Pradesh Bridge Construction, etc. to complete their internship.

More than 100 students from seven branches (ME, CE, ECE, CHE, EE, CSE and BioTech) have been completed their internship at different government and Private centers/sectors and submitted their reports accordingly.

Importance and Objective of Internship Training:



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Internship Training is the essential system to open understudies to genuine work-life circumstances and to outfit them with the vital abilities that increase their activity keenness. Modern preparing systems or preparing related programs can be constantly enhanced through formal surveys and assessments of its results. A key component in an engineering curriculum is an introduction to the Professional designing practice looked for through modern preparation. Industrial training has traditionally been weighed as potent grooming of the professional career of a fresh engineering graduate and it is the common method of the harvesting talented engineers. An all-around organized industrial training program as a piece of educational module has been prescribed, yet it isn't made mandatory. What's more, other organized modern tasks inside the building educational programs are required to fortify the pragmatic abilities of the students.

Photograph from ONGC:



Outcomes:

1. Ability to communicate efficiently. The knack to be a multi-skilled engineer with good technical knowledge, management, leadership and entrepreneurship skills. Ability to identify, formulate and model problems and find engineering solutions based on a systems approach.
2. Understanding of the importance of sustainability and cost-effectiveness in design and developments of engineering



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- Understanding of the importance of sustainability and cost-effectiveness in design and developments of engineering solution.
- Ability to be a multi-skilled engineer with good technical knowledge, management, leadership and entrepreneurship skills.
- Awareness of the social, cultural, global and environmental responsibility as an engineer.
- Capability and enthusiasm for self-improvement through continuous professional development and life-long learning.

Report on Arunachal Hackathon2020

February 14th, 2020, there were a Arunachal Hackathon2020 focusing on six major areas are: 1. Agriculture & Rural Development, 2. Renewable Energy, 3. E-waste Management, 4. Local Healthcare and Hygiene, 5. Robotics and Drones, 6. Efficient E-Vehicles and others. The event was organized by Startup Cell: Prakousol and Institute Innovation Council at TELC auditorium, NIT Arunachal Pradesh sponsored by TEQIP-III.

The majority of participants of the Hackathon20 were 3rd year students from our institute and from the nearby School and colleges. As part of our recent hackathon, a series of questions were asked to participants by our six member's judge panel. The questions and answers give some useful insight into the main issues judges are trying to address and my thoughts on how participants can tackle those issues.

We had a fantastic turn out for our Arunachal hackathon20 – 35 people and 12 teams competed for our local prizes (worth of ₹15,000/- 1st, ₹10,000/- 2nd, ₹5,000/- 3rd to two groups and ₹2,000/- Consolation prize to three groups).

A Short list of the projects and teams can be found here:

Sl. No.	Name of Members/Team	Institute/College name	Field of Project/Idea	Objectives	Remarks
1	HA TADE	NERIST, NIRJULI	OTHER	PROJECT SOFT.SPY IS AN ELECTRONIC DEVICE WHICH RECORDS ALL DATA AS PROOF AND EVIDENCE DURING THE TIME OF ANY VEHICLE ACCIDENT AND THUS ENABLE PEOPLE TO LATER DETERMINE , THE FAULTY DRIVER WHO CAUSED THE ACCIDENT OR ENABLES PEOPLE TO DECIDE WHY THE ACCIDENT OCCURED.	1 ST PLACE
2	TAKAMMARKIA	VEER SURENDRASAI UNIVERSITY OF TECHNOLOGY (VSSUT)	ITAMOTO	1. TO BRIDGE THE GAP OF CONNECTION BETWEEN DRIVER AND PASSENGER 2. TO MAKE TRANSPORTATION SECTOR EASY AND COMFORTABLE 3. TO MAKE ARUNACHAL A TOURIST FRIENDLY STATE	3 RD PLACE



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				AND ATTRACT TOURISTS TO TRAVEL IN ARUNACHAL PRADESH	
3	VICKY SINGH AND RAVISHANKAR KUMAR	BP PODDAR INSTITUTE OF MANAGEMENT AND TECHNOLOGY	AIR POLLUTION CONTROL AND MONITORING SYSTEM	CONTROL AIR POLLUTION USING ARDUINO UNO WITH GSM	
4	CHAITANYA THAPLIYAL, TANIA LAZI, MAMTA DIRCHI, MARIYAM KHAN	VIVEKANANDA KENDRA VIDYALAYA, NIRJULI	AGRICULTURE & RURAL DEVELOPMENT	AGRICULTURE FOR LIFE.	MOTIVATION PRIZE
5	KAZINGMIZE, RAKESH KUMARGUPTA, ANGSHUMANHAZAM	VIVEKANANDA KENDRA VIDYALAYA, NIRJULI	E-WASTE MANAGEMENT	VACUUM CLEANER	MOTIVATION PRIZE
6	NANIHAPA, KESHAV LAL, DENYIKARBAK, ANIKETDEBNATH	VIVEKANANDA KENDRA VIDYALAYA, NIRJULI	LOCAL HEALTHCARE & HYGIENE	PREVENTION AND TREATMENT OF CANCER WITH LOCALY AVAILABLE HERBS.	MOTIVATION PRIZE
7	KATIT MODI	NIT-ARUNACHAL PRADESH	ROBOTICS & DRONES	MULTI-DETECTOR DEVICE(MDD)	2 ND PLACE
8	RATUL SAHA, SOURAB GHOSH, NISHITA PAIK	NARULA INSTITUTE OF TECHNOLOGY	OTHER	DESIGNING OF SMART FOOTWEAR FOR WOMEN SECURITY	
9	SAYANPAKIRA AND SAKSHAMGOYAL	NIT-ARUNACHAL PRADESH	OTHER	TECHNOLOGICAL ADVANCEMENTS IN LPG SECTOR.	3 RD PLACE
10	JYOTIRANJAN NAYAK	NIT-ARUNACHAL PRADESH	E-WASTE MANAGEMENT	SOFTWARE	

Group Photo with Expert Team and Participants





Photograph during Idea Pitching



Prototype Demonstration:



Prize and Certificates Distribution:



Consolation Prize



3rd Prize winners



2ND Prize winner



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Report:

Halfday Lecture /Interaction Session on “**How to plan for Start-up and legal and Ethical Steps**”
Organized on 6th March, 2020 started at 10AM-1PM.

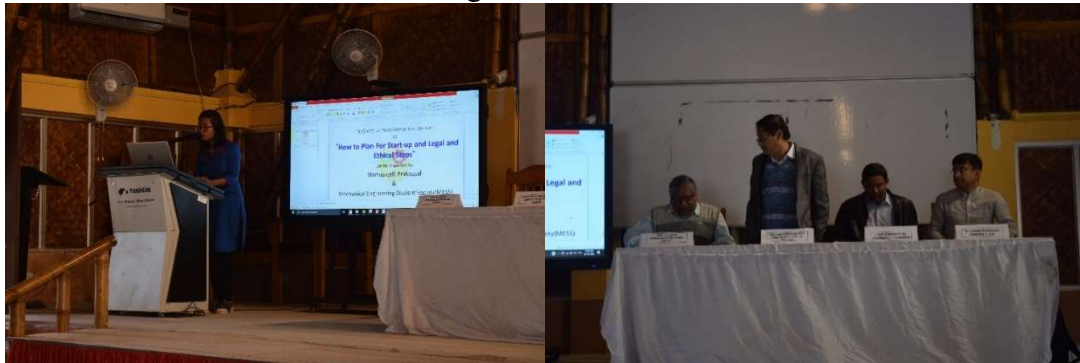
The overall objective of this workshop is to provide a strategic plan is a key component of planning for growth Business in Start-up journey. Planning for Startups entails understanding and dealing with many issues – legal, financial, sales and Marketing, Intellectual Property protection, Liability protection, Human Resources and more. Also to prepare a realistic vision for the future of business and maximize business' potential in Start-up journey, legal and Ethical Steps to be followed during the Start-up journey. That's what makes a startup such a huge commitment. This workshop aims to broaden your horizons when it comes to the steps required to turn your Ideas into a reality.

About Speakers:

1. Dr. Ramanuj Banerjee, Scientist-E, DSIR, Ministry of Science & Technology, New Delhi
2. Dr. Sukhomay Pal, Professor, Department of Mechanical Engineering and Co-Coordinator TOCIC, Indian Institute of Technology Guwahati

In this event, total Total participants: 132 students and 7 Faculty Members

Inauguration Session



Prof. Mohanta, Director
NIT Arunachal Pradesh

Prof. Pal, TOCIC, IIT Guwahati

Dr. Banarjee, DSIR

Outcomes:

1. Students have got an idea they think could make a better world to cultivate their products.



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2. How they can Establish a strong foundation.
3. How do they go about turning their idea into a real business?
 - a. Figure out your market
 - b. Have a clear social mission
 - c. Figure out the financials
 - d. Legalise it
 - e. Start showing off
 - f. Write your business plan
4. To prove you're making a difference

Audience:

