

Bengal Institute of Technology

Tech Town, Basanti Highway, Kolkata – 700150, West Bengal, India

Institution's Innovation Council 3.0 Annual Report 2020-2021



The IIC is set up in the institute to inspire the imaginative potential of our student society to work on new ideas and innovation and assist them to create start-ups and entrepreneurial ventures. The Institution's Innovation Council at Bengal Institute of Technology focuses on creating a complete ecosystem to foster the culture of Innovation across the campus from ideas generation to pre-incubation, incubation and after graduation as successful start-ups. IIC is set up to inspire the innovative energy of our students to work on new ideas and promote them to create start and entrepreneurial ventures.

Vision:

To provide the needs of students as well as faculty entrepreneurs with innovative ideas of social relevance and thereby propagating a culture of entrepreneurship in the campus which will encourage our education system and thereby expanding the national economic and social advancement.

Mission:

To produce a system with the required infrastructure that can empower students and faculty to innovate and prototype their ideas with industrial standards and support from Government, industry and reputed academic institutions around the world and help them to actualise their potentials.

Objectives of IIC:

- Students/Faculty associated with IICs will have exclusive opportunity to participate in various Innovation related initiatives and competitions organized from institution level to international level.
- Meet/Interact renowned Business Leaders and top- notch academicians.
- Opportunity to nurture and prototype new ideas.
- Mentoring by industry Professionals.
- Experiment with new technologies.

Head of the Institution:

Dr. Prof. Narayan Chandra Ghosh, Principal, BIT

Faculty Members of IIC Council:

Name	Department	Designation	Position
Sandipan Sahu	Computer Science & Engineering	Assistant Professor	President , ARIIA Coordinator
Sudipta Bhattacharya	Computer Science & Engineering	Assistant Professor	Vice President , Social Media Coordinator
Arpita Chakraborty	Electronics & Communication Engineering	Assistant Professor	Convener
Moutan Mukhopadhyay	CSE/IT	Assistant Professor	Start-up Activity Coordinator, NISP Coordinator
Shanta Phani	Computer Science & Engineering	Assistant Professor	Innovation Activity Coordinator
Shovon Nandi	Electronics & Communication Engineering	Assistant Professor	Internship Activity Coordinator
Sausabh Kanti Sarkar	Biotechnology	Assistant Professor	IPR Activity Coordinator
Debasish Pradhan	Basic Science	Assistant Professor	NIRF Coordinator
Bulbul Mukherjee	Computer Science & Engineering	Assistant Professor	Member
Ajanta Palit	Electronics & Communication Engineering	Assistant Professor	Member
Antara Mukherjee	Electronics & Communication Engineering	Assistant Professor	Member
Nabanita Saha	Computer Science & Engineering	Assistant Professor	Member
Banani Raychowdhury	Biotechnology	Assistant Professor	Member
Tapan Kumar Pal	Biotechnology	Assistant Professor	Member
Debalina Barik	Barik CSE/IT Assistant Professor		Member
Rajesh Roy	Basic Science	c Science Technical Assistant Member	
Tanmoy Pal	CSE/IT	Assistant Professor Member	

Tripti Majumdar	CSE/IT	Assistant Professor	Member
Udayan Bhattacharya	Biotechnology	Technical Assistant	Member
Abhishek Bakshi	CSE/IT	Assistant Professor	Member
Sayanti Sinha	ECE	Assistant Professor	Member

Student Members of IIC Council:

Name	Discipline	Role	Year	Association With
Lavam Sharma	CSE	Innovation Coordinator	4	IEDC
Sayantika Dutta	ECE	Startup Coordinator	4	EDC
Soumyadip Daripa	CSE	Member	4	Incubation Center
Sagnick Biswas	ECE	IPR Coordinator	4	Incubation Center
Bishakha Saha	ECE	Internship Coordinator	4	EDE
Sayan Hazra	ECE	Member	4	Incubation Center
Utsav Akash Naskar	CSE	Social Media Coordinator	4	Incubation Center
Prodyumna Chatterjee	ECE	Members	4	Incubation Center
Partha Manna	ECE	Member	2	Innovation Cell
Anik Dutta	ECE	Member	2	Idea Clubs/Innovation Clubs/St
Swastika Ghosh	ECE	Member	2	Idea Clubs/Innovation Clubs/St
Sarthak Mondal	ECE	Member	3	IEDC
Rajdeep Sarkar	ECE	Member	3	Incubation & Pre- incubation Units
Ayudh Nandi	ECE	Member	3	EDE
Riddhimann Mukherjee	Bio- Technology	Member	4	Tinkering Labs/Centre
Nikita Agarwal	Bio- Technology	Member	4	Incubation & Pre- incubation Units
Tapajyoti Routh	Bio- Technology	Member	4	EDE
Medha Maitra	Bio-Tech	Member	3	Idea Clubs/Innovation Clubs/St
Avijit Chakraborty	Bio-Tech	Member	3	EDE

Abhinandan Basu	Bio-Tech	Member	3	Tinkering Labs/Centre
Sampurna Roy	Bio-Tech	Member	2	Tinkering Labs/Centre
Subhadwip Dey	Bio-Tech	Member	2	Idea Clubs/Innovation Clubs/St
Kankhita Das	Bio-Tech	Member	2	Idea Clubs/Innovation Clubs/St
Anurag Banerjee	IT	Member	3	Innovation Cell
Sk Reyan Rahman	IT	Member	3	Innovation Cell
Rohit Das	IT	Member	3	IEDC
Sameer Alam	IT	Member	2	Incubation & Pre- incubation Units
Arya Kumari	IT	Member	2	Incubation & Pre- incubation Units
Israt Praveen	IT	Member	2	Tinkering Labs/Centre
Samrat Paul	IT	Member	3	Innovation Cell
Arpan Mondal	CSE	Member	3	Innovation Cell
Ghazanfer Wahab	CSE	Member	3	Idea Clubs/Innovation Clubs/St
Ujjwal Kar	CSE	Member	2	Industry-Institute Interface Unit/Centre
Sudipta Chakroborty	CSE	Member	2	Industry-Institute Interface Unit/Centre
Samadrita Paul	CSE	Member	2	Idea Clubs/Innovation Clubs/St
Nilanjana Basu	IT	Member	4	Innovation Cell
Haimanti Dutta	IT	Member	4	Innovation Cell
Hanzala Omair Ansari	IT	Member	4	Innovation Cell

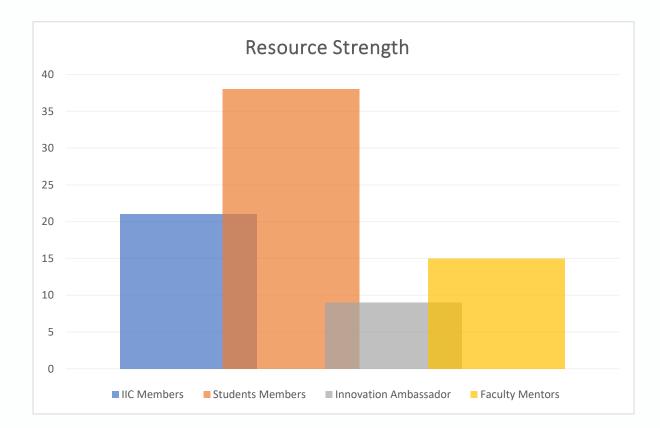
External Members of IIC Council:

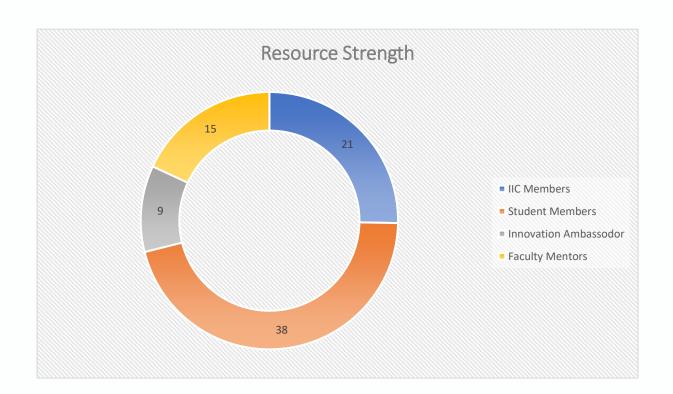
Name	Organization	Role	Member	
Anand Kumar Singh	VYRAZU LABS PVT LTD	Members	Expert from nearby Industry/Industry association/ Ecosystem Enablers	
Partha Dasgupta	Ascentspark Software Private Limited	Members	Start-up/ Alumni Entrepreneur	
Krishnendu Ghosh	IDBI Bank Ltd.	Members	Bank/Investor	

Innovation Ambassador:

Sl. No	Name	Department	Status	
1	Shovon Nandi	ECE	Advance Course	
2	Rajesh Roy	Basic Science	Advance Course	
3	Ajanta Palit	ECE	Basic Course	
4	Antara Mukherjee	ECE	Basic Course	
5	Banani Raychowdhury	Bio-Tech	Basic Course	
6	Bulbul Mukherjee	CSE/IT	Basic Course	
7	Debalina Barik	Barik CSE/IT		
8	Tapan Kumar Pal	Bio-Tech	Basic Course	
9	Tripti Majumdar	CSE/IT	Basic Course	

Portfolio of the Institution:





The IIC Calendar Activities are distributed in four quarters. Every quarter comprises IIC Calendar activity, MIC Driven Activity and Self Driven activity. IIC Calendar activity and Self driven activities are planned and conducted by the IIC members for the benefit of its students and faculty members. The activity planner of each quarter and brief details of each activity are mentioned below.

Achievements:

Prof. Tripti Majumdar

Published by the students of CSE 4th year 2020, Under the guidance of Assistant **Professor Tripti Majumdar, BIT** CSE/IT department

• "An Extensive Analysis of Human Gender Prophecy using Computer Vision"

Saha, D., De, D., Ghosh, P., Sengupta, S. and Majumdar, T., 2020. An Extensive Analysis of Human Gender Prophecy using Computer Vision. International Research Journal of Engineering and Technology (IRJET), 7(5), pp.1223-1229.

• "Automatic Detection of Gender from Face and Palm Images using a 2-CNN Framework "

Ghosh, P., Saha, D., De, D., Sengupta, S. and Majumdar, T., 2020, September. Automatic Detection of Gender from Face and Palm Images using a 2-CNN Framework. In 2020 IEEE 1st International Conference for Convergence in Engineering (ICCE) (pp. 357-360). IEEE.

Prof. Arpita Chakraborty

- Under Prof. Arpita Chakraborty's supervision a team (Team: Uninox) of students took part in "Toycathon" organized by MHRD.
- Under Prof. Arpita Chakraborty's supervision a Team: Uninox bagged 2nd prize (Rs.15,000 cash prize) in "Virtual Toy Hackathon" organized by Techno India Group (TIG).
- She has published many papers with students also.
 - S. Guhathakurata, S. Saha, S. Kundu, A. Chakraborty, J. S. Banerjee, "South Asian Countries Are Less Fatal Concerning COVID-19: A Fact-finding Procedure Integrating Machine Learning & MCDM Technique". Journal of The Institution of Engineers (India): Series B, Springer, https://doi.org/10.1007/s40031-021-00547-z, 2021, (Scopus).
 - S. Guhathakurata, S. Kundu, A. Chakraborty, J. S. Banerjee, "A Novel Approach to Predict COVID-19 Using Support Vector Machine". In Data Science for COVID-19, Elsevier (press), 2021, (WoS, Scopus).
 - J. Chattopadhyay, S. Kundu, A. Chakraborty, J. S. Banerjee, "Facial expression recognition for human computer interaction", New Trends in Computational Vision and Bio-inspired Computing: Selected works presented at the ICCVBIC 2018, Springer, 1181-1192, 2020, (WoS, Scopus).
 - S. Guhathakurata, S. Saha, S. Kundu, A. Chakraborty, J. S. Banerjee, "A New Approach to Predict COVID-19 using Artificial Neural Networks". In Cyber-Physical Systems: AI and COVID-19, Elsevier (press), 2021, (WoS, Scopus).
 - S. Biswas, L.K. Sharma, R. Ranjan, S. Saha, A. Chakraborty, J. S. Banerjee, "Smart Farming & Water Saving Based Intelligent Irrigation System Implementation using the Internet of Things", In Recent Trends in Computational Intelligence Enabled Research, Elsevier (press), 2021, (WoS, Scopus).

Prof. Bulbul Mukherjee

Under Prof. Bulbul Mukherjee's supervision **3** teams (Team: ALPHA INDIA, GyanBriksh, and Empire Flag) of students took part in "Toycathon" organized by MHRD. **One of the group selected for Grand Finale.**

Prof. Debalina Barik

Completed the Innovation Ambassador Program successfully and delivered a talk on "Entrepreneurship for young minds" which was about how students can incorporate entrepreneurship in campus.

Prof Ajanta Palit

Completed the Innovation Ambassador Program successfully and attained panel discussion with students on the topic "Entrepreneurship in campus".

Prof. Abanti Datta

Under Prof. Abanti Dutta's supervision **3** teams (Team: Be 2 + 1, The Robo Doll, The Rukma Vimana) of students took part in "Toycathon" organized by MHRD.

Highlight IIC activities:

Date	Name	Туре	Link
15 – 23 October 2020	KAPILA: Kalam Program for IP Literacy and Awareness	MIC	<u>Link</u>
3 rd November 2020	IKS Orientation Session	MIC	Link
25 th November 2020	Orientation Session on National Education Policy (with a focus on Innovation and entrepreneurship	IIC	Link
29 th November 2020	Java Script: Jack of all Trades and Master of all	SDA	Link
13 th December 2020	Webinar on Salesforce	SDA	Link
21 st December 2020	Orientation Session on National Innovation and Start-up Policy (NISP)	IIC	<u>Link</u>
26 th December 2020	Be your own boss in the challenging world of jobs: A beginners guide to entrepreneurship	SDA	<u>Link</u>
29 th December 2020	Exposure and field visit for problem identification	IIC	Link
6 – 7 February 2020	Arduino workshop	SDA	Link
7 – 8 February 2020	Workshop on Android and Flutter	SDA	<u>Link</u>
20 th February 2020	Session/ Workshop on Business Model Canvas (BMC)	IIC	<u>Link</u>
23th April 2021	talk on "From your Ph.D./ Masters Thesis to a start- up	MIC	<u>Link</u>
26 th April 2021	Session on Why IP is important in academia?	MIC	Link
05 th May 2021	IIC Council Meeting- Review of Q2 progress and Planning of Q3.	IIC	Link
12 th June 2021	Impact Lecture:		<u>Link</u>
13 th June 2021	Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus)		<u>Link</u>
19 th June 2021	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	IIC	Link
26 th June 2021	Workshop on Prototype/Process Design and Development - Prototyping	IIC	<u>Link</u>
27 th June 2021	Webinar on Data Science in Financial Industry	SDA	Link

03 rd July 2021	Webinar on How ML works in Industry	SDA	<u>Link</u>
04th July 2021	Webinar on Entrepreneurial Mindset	SDA	<u>Link</u>
11 th July 2021	webinar on Cloud Architecture on Serverless aws	SDA	Link
11 th August 2021	National Webinar on Research, Innovation and Ranking	MIC	<u>Link</u>
21 – 24 August 2021	World Entrepreneurs Day Celebration	MIC	<u>Link</u>
28 th August 2021	Orientation session for all students & faculties of Institute by Innovation Ambassador(s)	IIC	Link

Participation in Innovation & Entrepreneurship Initiatives:

The college has been a continuous rank holder in the National Institutional Ranking Framework (**NIRF**) organized by the Ministry of Education (MoE), Government of India, for the assessment years **2016**, **2018**, and **2020** for earning its excellence in the teaching-learning processes and research practices.

- Establishment of Institution's Innovation Council (IIC) as per the norms of Innovation Cell, Ministry of HRD, Govt. of India during IIC Calendar year 2018-19
- Participating in the Atal Ranking of Institutions on Innovation Achievement (ARIIA) (ARI-C-6294) for the last 3 years.
- The institution also adopted National Innovation and Start-up Policy (NISP) and formed the working committee.
- ✤ We participating in the Smart India Hackathon (SIH) from its inception. Our students had achieved all India first runners-up prize in the SIH.
- Our students also regularly participate on **Bengalathon** India's first State Level Hackathon, Organised by Department of Information Technology and Electronics, Government of West Bengal.

Social media & Connections:

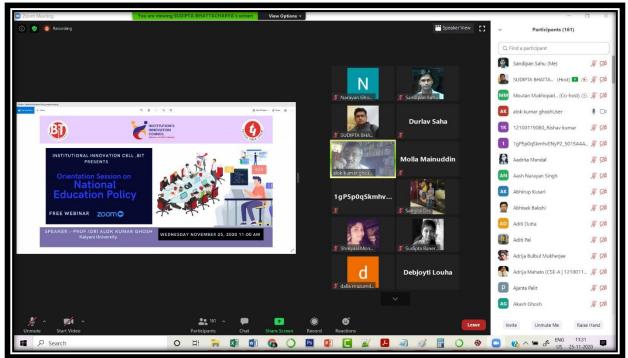
Social media	Link
Facebook Link	https://www.facebook.com/bitcollegetechno
Twitter Link	https://twitter.com/bitcollegetechn?s=08
Linkedin	https://www.linkedin.com/school/bengal-institute-of- technology/

Images:

Session on NISP



Session screenshot



Orientation Session on National Education Policy

Session screenshot



Session on "A beginners guide to Entrepreneurship"

Session screenshot

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World Entrepreneurship Day Celebration: Panel Discussion

Session screenshot

Contact:

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