



Brainware University

Annual Report 2020-21

About IIC Institute

Vision / Mission of IIC established at the Institute

The Ministry of Human Resource Development (MHRD), Govt. of India has recently established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years.

Functions

Through the IIC,

- Students/Faculty associated with the IIC will have exclusive opportunity to participate in various Innovation and Entrepreneurship-related activities organized by MIC in a time bound fashion.
- Students will be recognized for their Innovations and rewarded. Their success stories will be shared.
- The entrepreneurs will get the opportunity to meet/Interact with their peers and other entrepreneurship development organizations
- The student innovators will get to meet a pool of mentors through the periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals conducted by IIC.
- Innovative projects carried out by students and faculty of the University will be highlighted through the Innovation Portal.
- Hackathons, idea competition, mini-challenges etc. with the involvement of industries will be conducted.
- Students will be encouraged to experiment with new technologies. Visit companies and places and see the new culture of Entrepreneurship.

Journey of IIC established at the Institute

To motivate young minds and enthuse the students with a new spirit of innovation and vigour so that their thoughts and ideas find a befitting exposure, the Ministry of Education encouraged the establishment of Institution's Innovation Council (IIC) among all Higher Education Institutions. In this regard, Brainware University formed its IIC in 2019 with the teaching staff, Heads of the departments and members from the administration.

An awareness session on NISP was organized on November 29, 2019, under the leadership of IIC President of Brainware University, Prof. Dr. Sankar Gangopadhyay in coordination with the

Convener, Ms. Anandita Das and other faculty members. The objective behind the creation of this body was to foster the culture of innovation within the university and provide an all-encompassing and holistic development of the students in particular and the society in general.

The IIC of Brainware University is actively involved in organizing regular workshops and seminars / webinars for the students so that they are well informed about the industry scenario. Seminars on entrepreneurship and Intellectual Property Rights (IPR) have been particularly effective with many participants because of the relevance of an independent entrepreneurial career and the copyright issues associated with innovative ideas and creativity. Frequent industry visits are also arranged so that the aspirants can relate their theoretical knowledge with practical experience and be more confident.

The students are also guided about Start-up policies, how to think in a unique manner so that one may come up with innovative ideas, what the proper attitude should be towards building a business and the like, through motivational speaks from renowned industrialists so that they can reshape and mould themselves from job seekers to job givers. Moreover, to enable the students to channelise their creative energy in order that their ideas and innovations find an appropriate platform, the IIC of Brainware University organises Hackathon which not only allows one to build a prototype of one's ideas but also gives the students an opportunity to work in collaboration with the teachers on a project.

Some of the events of the IIC include a One-day workshop on "The role of communication in problem-solving", Brainware University Internal Hackathon 2K20, Seminar on "Entrepreneurship and Family Business" and Session on IPR & IP Management for Innovation & Start-ups, to name a few. One of the recent self-driven initiatives of the IIC was the Article Writing Competition for the students on "Contemporary Issues of Intellectual Property Rights" and the sub-themes included the different fields of Science and Technology, Cyber Science, Copyright Law, Innovation and commercialization, Patent, Geographical matters and Plant Science/Technology.

In the first year of its formation, the IIC of Brainware University was awarded 2.5 stars by the Ministry. The IIC team continued to persevere and kept on their hard work. With events being organised at regular intervals, the committee toiled to undertake more initiatives and inspire more students profoundly. Despite the pandemic crisis, the spirit of the body members has not been dampened. Though the lockdown posed a great challenge, the IIC of Brainware could not stop in its endeavours. This indefatigable determination bore glorious fruits when the efforts of IIC were recognised and honoured with 4.5 stars. It is an achievement that has further ignited the enthusiasm of all the team members to work with renewed energy and vitality. The IIC of Brainware University intends to carry on their efforts to meet the objectives and hopes to be successful in all their future endeavours.

Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.

Brainware University Institutions Innovation Council							
External Member & Experts			Faculty Members & Experts			Students Member	
IPR Expert	Industry Experts	Entrepreneurship Enablers	Coordinators	Mentors	Institutional Ambassador	Members	Students Entrepreneurs

Brief mention of key functionaries at the IIC Institute

Name	IIC Designation	University Association	Teaching/Non-Teaching
Dr. Shivnath Ghosh	President	Associate Professor, Dept. of Computer Sc. & Engg.	Teaching
Mr. Sujit Kumar Ray	Vice President	Assistant Professor, Dept. of Management	Teaching
Ms. Anandita Das	Convener	Assistant Registrar	Non-Teaching
Ms. Mahua Pal	NIRF Coordinator	Registrar	Non-Teaching
Mr. Jyotirishwar Kumar	ARIIA Coordinator	Assistant Registrar	Non-Teaching
Dr. Sandip Roy	Startup Activity Coordinator	Associate Professor, Dept. of Computational Sc.	Teaching
Dr. Anirban Mandal	Internship Activity Coordinator	Associate Professor, Dept. of Management	Teaching
Dr. Kaushik Benerjee	IPR Activity Coordinator	Associate Professor, Dept. of Law	Teaching
Mr. Partha Pratim Dasgupta	Innovation Activity Coordinator	Assistant Professor, Dept. of Computational Sc.	Teaching
Mr. Manoj Mukherjee	Social Media Coordinator	Assistant Professor, Dept. of Multimedia	Teaching
Dr. Somnath Ghosh	Member	Associate Professor, Dept. of Allied Health Sc.	Teaching
Dr. Angshuman Majumdar	Member	Assistant Professor, Dept. of ECE	Teaching
Mr. Avik Mitra	Member	Assistant Professor, Dept. of Multimedia	Teaching
Mr. Abir Saha	Member	Finance Dept.	Non-Teaching
Ms. Angana Sain Roy	Member	Adm. Dept.	Non-Teaching
Mr. Somik Ash	Member	Assistant Professor, Dept. of Law	Teaching

Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

Total No. of IIC Members	21 (Including external expert)
Total No. of IAs	03
Total No. of faculty Mentors From Portal	11
Pre-Incubation Units, If any	NA
Incubation Units, If any	Yes under MSME (4042 Sq. Ft.)
IP Facilitation Unit, If any	NA

Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

Highlight Achievements (Narrative/Graphical/tabular representation) 2019-20

Number and Different types of I&E and IPR activities Conducted	72
No. of students & faculty ideas generated	07
No. of students & faculty Innovation/prototypes developed	1

Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum

A prototype submitted as Proof of Concept by one of our students, Ms. Shreya B.Tech, CSE and her team, has been nominated for regional level mentoring under the IIC National Innovation Contest 2020 announced and held by MHRD's Innovation Cell in February, 2020.

Highlight selected best Innovations & images with mention of inventor/innovation name

Sr. No.	Title	Theme
1	Smart Watch For Women Safety	IoT based technologies (e.g. Security & Surveillance systems etc)

2	Manufacture of low cost floor cleaner from used tea leaves waste	Waste Management/Waste to Wealth Creation
3	Plastic to Power	Waste Management/Waste to Wealth Creation
4	gas absorption and purification chimney	Waste Management/Waste to Wealth Creation
5	DTEG(DECISIVE TERRAIN ENERGY GENERATION)	Renewable and affordable Energy.
6	Gas absorption and purification chimney	Waste Management/Waste to Wealth Creation
7	ALGINATE BOTTLES	Waste Management/Waste to Wealth Creation
8	HEAVEN & FRUIT	Agriculture & Rural Development.

Highlight selected start-ups established by students/faculties with mention of founder/co founder name

NA

List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation)

DTEG (DECISIVE TERRAIN ENERGY GENERATOR) is capable of generating enough power for charging a mobile phone or camera indecisive / crucial terrains / landscapes like cold icy regions with the help of the ashes that remain after bonfire at night. And The next day, the devices will be charged

Participation of IIC-institute in various programs of Central and State Govt. Highlighting specially for the schemes or programs

- **ARIIA – BRAINWARE UNIVERSITY [ARI-U-0846]** Participated
- **NISP Adoption status** - Policy Formulation & Policy Implementation
- **Smart India Hackathon** - Participated
- **Students Participation in MIC Innovation Contest**

Detail of Social Media & Connections of IIC institute

<https://www.facebook.com/brainwareuniversity>

<https://twitter.com/BrainwareTweet>

<https://www.linkedin.com/school/brainwareuniversity/>

https://www.instagram.com/brainware_university_kolkata/

Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell

Testimonial 1

"Brainware University has established the Institution Innovation Council (IIC) as per the norms of Innovation Cell, Ministry of HRD, Govt. of India. The aim of IIC is to mentor and spread awareness on fostering innovation at the Institute level. Institution Innovation Council (IIC) is undertaking various activities prescribed by Innovation Cell to promote Innovation and Start-up on campus throughout the academic session. Activities help to motivate the students and faculty members to be involved in innovation activities." **Assoc. Prof. Dr. Somnath Ghosh, HOD, Department of Allied Health Sciences, Brainware University**

Testimonial 2

Institutions Innovation Council is a great initiative of the Ministry of Education, Govt. of India, which changes the mindset of students and faculty members in the area of ideation, prototype, IPR, entrepreneurship and startup. We Brainware University congratulate the entire MoE Innovation Cell for their effort. - **Jyotirishwar Kumar Assistant Registrar, Brainware University**

Testimonial 3

The objective of formation of the group of IICs is to motivate, support and nurture young minds by exposing them to pre-incubation processes, exercises, bootstrapping it and resulting the new idea into a prototype. These groups have been assigned various innovative works through different workshops, seminars, and other innovative events organized by our Institutions. We always welcome their ideas which have been awarded to motivate more students to be innovative. - **Dr. Sandip Roy, Associate Professor and HOD Department of Computational Science**

Testimonial 4

IIC is a fantastic resource for students and faculty members. It gives them opportunities to develop their ideas and scale it up. Another favourite thing about this cell are the webinars and workshops being organized regularly where top entrepreneurs give students the secrets to a successful startup career. Motivation and Innovation is abundant in the institution's IIC cell. IIC Ministry of Education also constantly encourages us to review and incorporate feedback from students and constantly participate in new programmes to provide better support for students. - **Anandita Das. Assistant Registrar, Brainware University, Convener IIC**

Testimonial 5

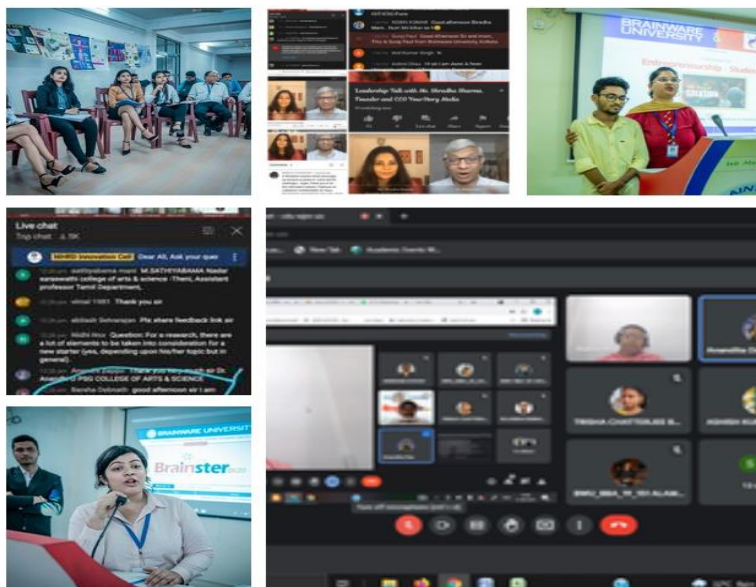
This gives me great pleasure to see students participate actively in all the programs. Since most of our students are hoping to be first generation entrepreneurs it is very helpful that the guidance is very precise and practical. It helps them easily grasp important aspects of innovation and startups without getting confused by the jargon. It is great that all three sections of IIC including MIC activity, calendar activity, and self driven activity are designed so closely and with such care that it has broadened the students' idea about employment opportunities. IIC has helped students with confidence and motivated them to consider self-employment and innovation as an equally rewarding career choice. **Mahua Pal, Registrar. Brainware University**

Testimonial 6

Institution's Innovation Council (IICs) is inspiring the young ignited mind students to implement their ideas into prototype and startup. It has the systematic approach to convert student's ideas into invention and startup. IIC provides their students the organized approach to learn "how to generate new ideas "how to implement it", how to protect it. The most importantly, the activities performed throughout the year are the demand of current business era.-**Dr. Shivnath ghosh, Asso. Prof,Dept of Computer Science and Engineering, President IIC**

Testimonial 7

With the primary mandate of 'MHRD's Innovation Cell (MIC), basically to encourage, inspire, and nurture students by supporting them to work with the new ideas and transform them into prototypes, the Institution's Innovation Council team, Brainware University has been successful in conducting various activities throughout the year. Recently IIC celebrated "World Entrepreneur Day" intending to promote innovation and entrepreneurship spirit among newly admitted first-year students. In the recent past, IIC and the School of Management and Commerce jointly organized a workshop on Accelerators/Incubation-opportunities Students and faculties-early stage entrepreneurs to help the young entrepreneurs grasp opportunities in the ever-changing corporate landscape. **Sujit Kr. Ray, Asst. Prof. Department of Management, Vice President IIC**



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