

Section 1: Policy And Institutionalization Of I&E Activities In HEIs (Academic Calendar Year 2020-21 & 2021-22)

1.1) Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation

Completion of Action Items (status as on 7th November 2022)	Status
Registered in the NISP portal for I&E Policy Adoption	Yes
Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy	No
Institute has Action Plans for Implementation of the I&E Policy	Yes

Contact:

Faculty Name:	Sandip Kumar Lahiri
Designation:	Associate Professor
Email ID:	sandipkumar.lahiri@che.nitdgp.ac.in
Mobile No.	9007659000

1.2) Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained

Annual Performances of IIC Institute	Stars Secured
IIC 1.0 (2018-19)	1,2
IIC 2.0 (2019-20)	1.5
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	3

Contact:

IIC President of the Institute:	Sandip Kumar Lahiri
Designation:	Associate professor
Email ID:	sandipkumar.lahiri@che.nitdgp.ac.in
Mobile No.	9007659000

1.3) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
1	Sandip Kumar Lahiri	Basic	6
2	Nilanjan Chattaraj	Basic	1
3	Aniruddha Bhattacharya	Basic	3
4	Arjyajyoti goswami	Basic	6
5	Sayantari ghosh	Basic	2
6	subrata banerjee	Basic	0
7	sudit mukhopadhyay	Basic	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	U-0577	No
HEI Participated in the Smart India Hackathon (2022)	U-0577	Yes

Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

2.1) Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Course Start Date	Cou End Dat
1	Entrepreneurship Development Theory and Practice	HSO540	2021-22	Elective Course	Bachelor	Humanities and Social Science	3	02-08-2021 00:00:00	19-2021 00:00:00

2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	Program End Date	Tc Di of Co (ir
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No Data Found

Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (>= 600 Sq. Ft. Floor Area)

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	Innovation Cell	Institute Innovation and Incubation Centre	Sandip Kumar Lahiri	9007659000	sandipkumar.lahiri@che.nitdgp.ac.in	Mentoring Support, Grant Support, Pre Incubation Facility Support (Idea to Prototype and Inr Business Plan Development), Inc Facility Support (Innovative Business Model to Startup Market Linkage & Growth Stage)

3.2) Existence of Incubation Facility (>= 1500 Sq. Ft. Floor Area)

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
No Data Found					

3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
No Data Found						

Section 4: Generation and Support of Prototypes / Innovations at HEI and Recognition received (AY 2020-21 & 2021-22)

4) Total no. of Innovations (Verified and Recommended) in Different TRLs (4-9) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute	Contact No	Email
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No Data Found

Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Startup/Venture Recognized by DPIIT/Startup India	FY Sta Re SuJ fro Inc uni Ins
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No Data Found

Section 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
1	Steel Authority of India Limited, Durgapur	Govt. Agency (Central)	5	Active	11-02-2022	View (/Uploads/Institute
2	TCG Centres for Research and Education in Science and Technology	Educational Institute	5	Active	07-10-2021	View (/Uploads/Institute
3	NHPC Limited, Faridabad, Haryana	Govt. Agency (Central)	5	Active	12-01-2022	View (/Uploads/Institute
4	Central Board of Irrigation and Power, Delhi	Govt. Agency (Central)	5	Active	29-11-2021	View (/Uploads/Institute

Section 7: Intellectually Property (IP) Generated and Commercialization

7.1) IPR Filed and Published (Copyrights & Design only)

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
No Data Found					

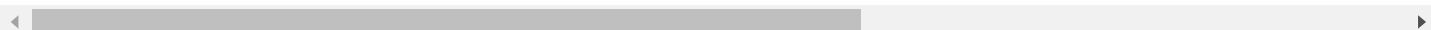
7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	Low-cost Counter electrode for Platinum- free Dye Sensitized Solar Cell (DSSC) comprising Cobalt Nickel Disulfide (CoNi ₂ S ₄) and Reduced Graphene Oxide (RGO) Nanohybrid	202031030914	20-07-2020
2	Automatically pressurised AMBU bag system	202031017748	25-04-2020
3	DEVELOPMENT OF DISULPHIDE BOND ENGINEERED ENZYME AFCEL7A	202131050361	18-05-2021

7.3) Patent Published / Granted Data

Sr. No.	Patent Registration Application No	Patent Title
1	202131034673	METHOD AND SYSTEM FOR IMPEMENING A SECURE BLOCKCHAIN FRAMEWORK IN AN IC ENVIRONMENT
2	202131028822	SOLAR ASSISTED IOT BASED AUTOMATIC VERTICAL MEDICINAL PLANT CULTIVATION OF C ENDANGERED PLANT NARDOSTACHYS JATAMANSI
3	202121026251	A SYSTEM AND METHOD FOR FACILITATING SECURITY OF CONFIDENTIAL INFORMATION
4	202031041101	DESIGN OF ID-BASED AND ATTRIBUTE-BASED CRYPTOGRAPHY FOR IMPLEMENTATION OF VOTING PROTOTYPE USING BLOCKCHAIN
5	202031017748	AUTOMATICALLY PRESSURISED AMBU BAG SYSTEM-

Sr. No.	Patent Registration Application No	Patent Title
6	201831026040	STANDALONE PORTABLE REHABILITATION AND ASSISTANCE SYSTEM
7	201631036780	SEQUENTIAL ULTRAVIOLET MEDIATED MUTAGENESIS FOR ENHANCED PRODUCTION OF R
8	201831020519	A HIGH GAIN INTERLEAVED BUCK-BOOST CONVERTER WITH MODIFIED INTERLEAVING TE
9	201931002942	BIO-WASTE ASH BASED LOW COST, LIGHT WEIGHT, AND ECO- FRIENDLY SELF-RECHARGEABLE BATTERY
10	201631036780	SEQUENTIAL ULTRAVIOLET MEDIATED MUTAGENESIS FOR ENHANCED PRODUCTION OF R
11	201831020519	A HIGH GAIN INTERLEAVED BUCK-BOOST CONVERTER WITH MODIFIED INTERLEAVING TE
12	201831023674	HIGH GAIN BUCK-BOOST CONVERTER SYSTEM WITH HIGHER EFFICIENCY AND IMPROVED PERFORMANCE
13	201931007981	AMORPHOUS SILICON MONOXIDE BASED NANOWIRE ELECTRODE BIOSENSOR
14	201931002942	BIO-WASTE ASH BASED LOW COST, LIGHT WEIGHT, AND ECO- FRIENDLY SELF-RECHARGEABLE BATTERY
15	201931007981	AMORPHOUS SILICON MONOXIDE BASED NANOWIRE ELECTRODE BIOSENSOR



7.4) IP Commercialized and Transferred to Industry/Startup

Sr. No.	Name of Technology Licenced/Transferred/Commercialized	Technology Type	Patent/Licence Holder name (Institute Co-ownership is Must)	Technology Transferred to	Name of Licensee
1	Low-cost technology of oxygen concentrator to generate oxygen for medical purposes	Non-IP/Non-Patented Technology	Shibendu Shekhar Roy	Industry	1) Integrated Fire Protection Pvt. Ltd. , 2) Durgapur Safety Gears Private Limited , 3) Srijan Creation, 4) Sanray Laboratories Private Limited, 5) Continental Cryogenics Private Limited, 6) EL-Pan Electricals (INDIA) pvt Ltd, 7)Carborundum Universal Limited

Declaration

To,
The ARIIA Committee
MHRD's Innovation Cell
New Delhi

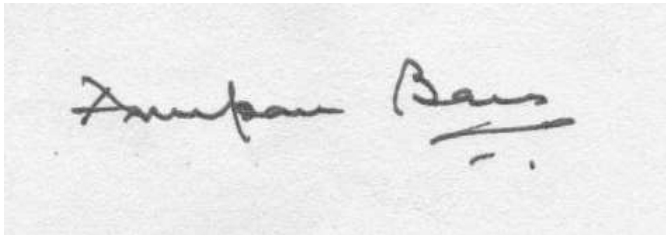
Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Prof. ANUPAM BASU** (Head of Institute) and **Mr. SANDIP KUMAR LAHIRI** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

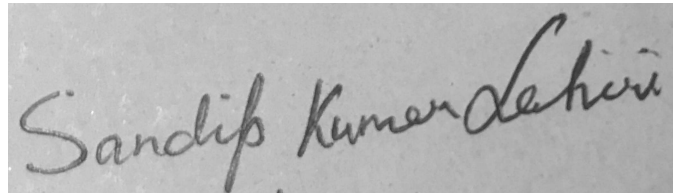
Thank you

The Head of Institute

A handwritten signature in black ink on a light-colored background. The signature appears to read 'Anupam Basu' with a stylized flourish at the end.

Prof. ANUPAM BASU,
Head of the Institution,
National Institute of Technology Durgapur,
Durgapur, West Bengal

Nodal officer

A handwritten signature in black ink on a light-colored background. The signature appears to read 'Sandip Kumar Lahiri' in a cursive script.

Mr. SANDIP KUMAR LAHIRI,
Nodal Officer,
National Institute of Technology Durgapur,
Durgapur, West Bengal