Verification Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2020-21

Institute Name: National Institute of Technology Durgapur [ARI-U-0577]

List all the departments / centers / units are part of innovation and startup ecosystem of the institite

Srno	Department / Center / Unit Name	Type of Department / Center / Unit	Mention the Stream / Discipline / Sector of focus	Department / Center / Unit Level	Program Type	Student / Benificiary Strength (2019-20)	Academic Staff Strength (2019-20)	Non-academic Staff Strength (2019-20)
1	Department of Metallurgical and Materials Engineering	Academic Department with lab facility	Metallurgical and Materials Engineering	UG / PG / PhD	Technical	297	13	4
2	Department of Computer science and Engineering	Academic Department with lab facility	Computer science and Engineering	UG / PG / PhD	Technical	800	32	4
3	Department of Biotechnology	Academic Department with lab facility	Biotechnology	UG / PG / PhD	Technical	329	17	0
4	Department of Civil Engineering	Academic Department with lab facility	Civil Engineering	UG / PG / PhD	Technical	341	16	0
5	Department of Chemical Engineering	Academic Department with lab facility	Chemical Engineering	UG / PG / PhD	Technical	294	16	0
6	Department of Chemistry	Academic Department with lab facility	Chemistry	UG / PG / PhD	Technical	96	12	0
7	Department of Electronics and Communications Engineering	Academic Department with lab facility	Electronics and Communications Engineering	UG / PG / PhD	Technical	423	20	1
8	Department of Electrical Engineering	Academic Department with lab facility	Electrical Engineering	UG / PG / PhD	Technical	417	22	1
9	Department of Mechanical Engineering	Academic Department with lab facility	Mechanical Engineering	UG / PG / PhD	Technical	739	30	7
10	Department of Earth and Environmental Studies	Academic Department with lab facility	Earth and Environmental Studies	UG / PG / PhD	Both	25	4	0
11	Department of Humanities and Social Sciences	Academic Department with lab facility	Humanities and Social Sciences	UG / PG / PhD	Both	10	6	0
12	Department of Mathematics	Academic Department with lab facility	Mathematics	UG / PG / PhD	Technical	55	11	0

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13	Department of Physics	Academic Department with lab facility	Physics	UG / PG / PhD	Technical	25	12	0
14	Management Studies	Academic Department with lab facility	Management Studies	UG / PG / PhD	Technical	18	10	0
15	Centre for Advanced Research on Energy(CARE)	Research Unit / Park	Advanced Research and Innovation	Not Allowed	Not Allowed	11	22	0
16	Centre for Research on Environment and water(CREW)	Centre of Excellence with Advance Tools & Equipment	Research and incubation	Not Allowed	Not Allowed	1	27	0
17	Centre for Excellence on IoT and Intelligent Systems(IoTIS)	Centre of Excellence with Advance Tools & Equipment	Incubation Centre	Not Allowed	Not Allowed	23	31	0
18	Centre for Alumni Affairs and International Relations (CAAIR)	Industry Institute Interface Unit	Alumni Relations Centre	Not Allowed	Not Allowed	19	30	0
19	AsokeSen Design and Innovation Centre	Incubation Unit	Innovation Centre	Not Allowed	Not Allowed	20	22	0

Participation of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education (Till Today)

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	YES	IIC Registration ID : IC201810314
Trained Innovation Ambassadors at HEI	YES	Not Required
Participation in Smart India Hackathon (SIH)	Yes	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	Yes	Not Required
Participation in National Education Alliance of Technology (NEAT)	Yes	Not Required

Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

Srno	Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?
1	Miles to Go with Biotechnology	Innovation	Workshop	Institute Lead Activity	Department of Biotechnology	04-04-2019 00:00:00	04-04-2019 00:00:00	1	Within Campus	48	5	18	1	72	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 50000	No

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2	Intellectual Property Rights	IPR	Workshop	Institute Lead Activity	Department of Chemistry and Chemical Engineering	14-05-2019 00:00:00	14-05-2019 00:00:00	1	Within Campus	62	6	35	0	103	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 50000	No
3	Media, Gender and Globalization: Emerging Issues, Trends and Challenges	IPR	Workshop	Institute Lead Activity	Department of Humanities and Social Sciences	03-06-2019 00:00:00	09-06-2019 00:00:00	7	Within Campus	45	3	38	1	87	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	No
4	Recent Trends in Machine Learning and IoT	Innovation	Workshop	Institute Lead Activity	Department of Computer Science Engineering	17-06-2019 00:00:00	21-06-2019 00:00:00	5	Within Campus	65	3	33	1	102	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	No
5	GIAN course on "Clean Steel Technology"	Innovation	Workshop	Institute Lead Activity	Department of Metallurgical and Materials Engineering	22-07-2019 00:00:00	26-07-2019 00:00:00	5	Within Campus	60	2	35	1	98	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	No
6	From Smart Sensing to Smart Living	Innovation	Workshop	Institute Lead Activity	Department of Computer Science Engineering	14-08-2019 00:00:00	14-08-2019 00:00:00	1	Within Campus	58	5	33	1	97	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 50000	No
7	Life Skills Management and Women Empowerment	IPR	Workshop	Institute Lead Activity	Dept. of Biotechnology and Dept. of HSS	06-08-2019 00:00:00	07-08-2019 00:00:00	2	Within Campus	68	2	26	2	98	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 100000	No
8	Current State of Affairs in Cyber Security & Cryptology	Innovation	Workshop	Institute Lead Activity	National Institute of Technology Durgapur	13-09-2019 00:00:00	14-09-2019 00:00:00	2	Within Campus	54	5	33	2	94	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 100000	No

Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

9	Intelligent Systems: Challenges, Techniques and Applications (ISCTA 2019)	Innovation	Workshop	Institute Lead Activity	Dept. of Electrical Engineering	15-10-2019 00:00:00	19-10-2019 00:00:00	5	Within Campus	56	2	35	1	94	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	No
10	Machine Learning for Biomedical Image Analysis	Innovation	Workshop	Institute Lead Activity	Dept. of Electrical Engineering	12-11-2019 00:00:00	16-11-2019 00:00:00	5	Within Campus	62	2	34	1	99	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	No
11	Prospect of transition from academia to the health-sector industry	Innovation	Workshop	Institute Lead Activity	National Institute of Technology Durgapur	06-12-2019 00:00:00	06-12-2019 00:00:00	1	Within Campus	56	4	26	2	88	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 50000	No
12	AICTE Training and Learning Academy (ATAL) Program on Robotics	Innovation	Workshop	Institute Lead Activity	Dept. of Mechanical Engineering	09-12-2019 00:00:00	13-12-2019 00:00:00	5	Within Campus	55	4	35	3	97	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 164250	No
13	"Indian Iron & Steel Technologies: Challenges and Remedies (IISTCR-2019)	Innovation	Workshop	Institute Lead Activity	Dept. of Metallurgical and Material Sciences Engineering	09-12-2019 00:00:00	13-12-2019 00:00:00	5	Within Campus	68	3	22	1	94	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	No
14	Women Empowerment in India	IPR	Workshop	Institute Lead Activity	Department of Maths	06-01-2020 00:00:00	10-01-2020 00:00:00	5	Within Campus	62	3	15	2	82	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	No
15	Challenges in Sustainable Biofuel Synthesis over Conventional Fuel	Innovation	Seminar	Institute Lead Activity	Dept. of Chemical Engineering	01-04-2019 00:00:00	05-04-2019 00:00:00	5	Within Campus	62	3	30	2	97	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 200000	No

Section 1 > i : Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

| 16 | Fermentative production of microbial metabolites and their applications | Innovation | Seminar | Institute Lead Activity | Department of Biotechnology | 14-01-2020 00:00:00 | 14-01-2020 00:00:00 | 1 | Within Campus | 65 | 4 | 20 | 3 | 92 | Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) — 50000 | No |

Section 1 > ii : Details of Students, Faculties/Staff Participation/Representation in Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up at the State, National and (or) International Level (Organized by External Organizations) sent by the HEI

Srno	Name of Program (Full Name)	Program Theme	Program Type	Organizing Agency / Institute Name	Organizing Agency Type	Program Start Date	Program End Date	Program Duration(in Days)	Participants (Students)	Participants (Faculty)	Total Number of Participants	Awards/Recognitions/Achievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research
1	CREATECH 2020	Innovation	Innovation Contest	NIT Rourkela	Corporate / Industry Association	06-03-2020 00:00:00	09-03-2020 00:00:00	4	30	0	30	Yes	1	Winner	No	Award / Position / Recognition Secured — 1; Title of Innovation / Start-up Secured the Award / Recognition — Winner; Award/Recognition/Achievement Received for — Idea/Innovation/Prototype
2	NIT Conclave	Entrepreneurship/ Startup	B-Plan Competitions	National Institute of Technology Rourkela	Educational Institute	23-08-2019 00:00:00	25-08-2019 00:00:00	3	110	2	112	No	---	---	No	No
3	Woman of Mettle	Innovation	Hackathon	Tata Steel	Corporate / Industry Association	02-09-2019 00:00:00	05-09-2019 00:00:00	4	100	0	100	Yes	30	Paid Internship at Tata Steel	No	Award / Position / Recognition Secured — 30; Title of Innovation / Start-up Secured the Award / Recognition — Paid Internship at Tata Steel; Award/Recognition/Achievement Received for — Idea/Innovation/Prototype

Section 2 > i : List the Academic Programs on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period (2019-20)

Srno	Title of Course/Subject Offered	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course (Minimum 30 Contact hours)
1	ENTREPRENEURSHIP DEVELOPMENT	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Department of Humanities and Social Sciences	06-07-2019	25-11-2019	143	Offline	57	42

Section 2 > ii : List the Employment Generation Skill Development Programs Organized by the HEI on Innovation, IPR and Entrepreneurship Development During the Academic Period (2019-20)

No Data Flled!

Section 2 > iii : List the Full Time Faculties had with a Degree (UG/PG/PhD) in Innovation/IPR/Entrepreneurship and (or) Received Specialized Training program of I&E, IPR (MDP, EDP, FDP, Short-term Certificate Course, of minimum 30 hours Duration) conducted by various State, Central Govt. agencies, and Knowledge Agencies in the Academic Period (2019-20)

Srno	Faculty Name	Department/Centre/Unit Name	Designation	Do you have a degree in I&E & IPR?	Had the faculty received training on I&E & IPR during AY 2019-20
1	Samanta Amiya Kumar	Department of Civil Engineering	Professional Development Training PDT	No	No
2	Tandra Pal	Department of Computer Science and Engineering	Professional Development Training Program under TEQIP-III	No	No

Section 3 > i : List Idea/Innovation Centric Student Clubs Are Functional at the HEI with Access to Co-working Space/Work-stations for Students with Facilities & Equipment Available to promote and Support Innovation, Entrepreneurship and IPR Activities in Campus

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	Enterprenurship Development Cell	Startup Club	2016	Co-working Space	No Such Facilities Exist in the Campus	20	Rima Roy	rima94772@gmail.com	7797085815
2	ISTE Students Chapter	Innovation Club	2009	Co-working Space	No Such Facilities Exist in the Campus	10	Harshit Anand	istenitdurgapur@gmail.com	9800062969

Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)

No Data Flled!

Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)

Srno	Name of CoE Facility	Year of Establishment	CoE with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with CoE, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the CoE Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by CoE Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of CoE Centre/Facilities?

Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)

1	Centre of Excellence in Advanced Materials	2013	Innovation Labs,Student Clubs	(TEQIP-II, MHRD)	Facility Incharge Name	Dr. A.K. Chakraborty	0	No	No	No
					Facility Incharge Email	amit.chakraborty@phy.nitdgp.ac.in				
					Facility Incharge Phone	9434788092				

Section 3 > ii > c : List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)

No Data FIled!

Section 3 > ii > d : List the Innovation Park/Research Park Facilities at the HEI (>= 5000 Sq. Ft. Floor Area)

No Data FIled!

Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI

No Data FIled!

Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups

No Data FIled!

Section 3 > iii > b : Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups

No Data FIled!

Section 4 : List all the Innovations Generated Developed, Completed and Implemented in Ground with Support of Pre-incubation & Incubation facilities at the HEI and Recognitions Received

No Data FIled!

Section 5 : List all the Ventures/Startups/SME Units Established with Support of Pre-incubation & Incubation facilities at the HEI

No Data FIled!

Section 7 > i : List all the Collaborations with External Agencies and Co-Creation of I&E Activities by the HEI

No Data FIled!

Section 8 > ii : List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner

No Data FIled!

Section 8 > iii : List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner

Srno	Title/Name of Patent	IP Registration Number	Date of Filed/Published (Year, Month)	Application Level	Copy of receipt / application screenshot [PDF or Image]
1	A Method for Mode Switching and Power Allocation in Device to Device Communication	202011009278	National	2020 - 02	Uploaded
2	An Electrode based system for analysis of Biomarkers\Biological specimens.	201931047203	National	2019 - 11	Uploaded
3	RECOMBINANT CELLOBIOHYDROLASES	201731045312	National	2019 - 06	Uploaded

Section 8 > v : List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI

No Data FIled!

Section 8 > vi : List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner

No Data FIled!

Declaration

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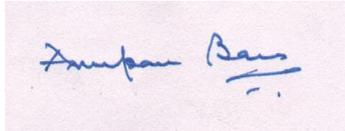The ARIIA Committee
MHRD's Innovation Cell
New Delhi

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.
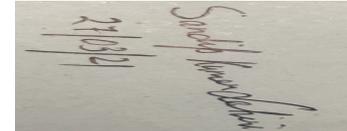
Thank you

The Head of Institute	Nodal officer
Prof. ANUPAM BASU	Mr. SANDIP KUMAR LAHIRI
Head of the Institution,	Nodal Officer,
Durgapur, West Bengal	Durgapur, West Bengal