



# ARIIA

## ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MoE**  
Ministry of Education  
Government of India

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

Institute Name: NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA [ARI-U-0357]

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

Srno	Department / Center / Unit Name	Type of Department / Center / Unit	Mention the Stream / Discipline / Sector of focus	Department / Center / Unit Level	Program Type	Student / Beneficiary Strength (2019-20)	Academic Staff Strength (2019-20)	Non-academic Staff Strength (2019-20)
1	B Tech In Biomedical Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	39	17	9
2	B Tech In Biotechnology	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	36	17	9
3	B Tech In Civil Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	84	21	11
4	B. Tech In Chemical Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	66	15	9
5	B Tech In Ceramic Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	41	14	8
6	B Tech In Computer Science and engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	157	21	6
7	B Tech In Electronics and Communication Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	84	24	14
8	B Tech In Electronics and Instrumentation Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	60	24	14
9	B. Tech In Electrical Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	120	22	17
10	B. Tech In Food Process Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	35	6	5
11	B. Tech In Industrial Design	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	37	6	7
12	B. Tech In Mechanical Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	136	29	19

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

13	B Tech in Metallurgical and Materials Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	60	18	10
14	B Tech in Mining Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	41	8	10
15	Bachelor In Planning and Architecture	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Non-Technical	24	8	4
16	M. Tech In Biomedical Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	16	17	9
17	M. Tech In BioTechnology	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	14	17	9
18	M. Tech In Geo technical Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	22	21	11
19	M. Tech in Structural Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	16	21	11
20	M. Tech in Transportation Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	21	21	11
21	M. Tech in Water Resources Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	22	21	11
22	M. Tech in Chemical Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	4	15	9
23	M. Tech in Energy and Environmental Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	12	15	9
24	M. Tech in Industrial Ceramics	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	6	14	8
25	M. Tech in Computer Science and Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	22	21	6
26	M. Tech in Information Security	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	21	21	6
27	M. Tech in Software Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	19	21	6
28	M. Tech in Microwave and Radar Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	9	24	14
29	M. Tech in VLSI Design and Embedded Systems	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	18	24	14

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

30	M. Tech in Communication and Networks	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	20	24	14
31	M. Tech in Signal and Image Processing	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	18	25	14
32	M. Tech In Electronic Systems and Communication	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	19	25	14
33	M. Tech In Power Electronics and Drives	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	23	22	17
34	M. Tech In Power Systems Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	19	22	17
35	M. Tech In Atmosphere and Ocean Science	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Non-Technical	8	7	5
36	M. Tech In Food Process Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	8	6	5
37	M. Tech In Machine Design and Analysis	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	18	29	19
38	M. Tech In Production Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	20	29	19
39	M. Tech In Thermal Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	16	29	19
40	M. Tech In Cryogenic and Vacuum Technology	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	18	29	19
41	M. Tech In Metallurgical and Materials Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	5	18	10
42	M. Tech In Mining Engineering	Academic Department with lab facility	Engineering & Technology	UG / PG / PhD	Technical	16	8	10
43	Dual Degree in Chemical Engineering	Academic Department with lab facility	Engineering	UG / PG / PhD	Technical	13	15	9
44	Dual Degree in Industrial Ceramics Engineering	Academic Department with lab facility	Engineering	UG / PG / PhD	Technical	12	14	8
45	Dual Degree in Metallurgy and Materials Engineering	Academic Department with lab facility	Engineering	UG / PG / PhD	Technical	13	18	10
46	Dual Degree in Mining Engineering	Academic Department with lab facility	Engineering	UG / PG / PhD	Technical	12	8	10

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

47	M.sc in Chemistry	Academic Department with lab facility	Science	UG / PG / PhD	Non-Technical	26	20	7
48	M. Sc in Physics	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	32	18	9
49	M.Sc in Mathematics	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	31	16	2
50	M.SC in Life Science	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	24	14	6
51	M.SC. in Applied Geology	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	29	7	5
52	M.Sc in Earth and Atmospheric Sciences	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	9	7	5
53	Integrated M.Sc. In Chemistry	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	21	20	7
54	Integrated M.Sc. In Physics	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	22	18	9
55	Integrated M.Sc. In Mathematics	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	24	16	2
56	Integrated M.Sc. In Life Science	Academic Department with lab facility	science	UG / PG / PhD	Non-Technical	14	14	6
57	M.A. in Development Studies	Academic Department with lab facility	Arts	UG / PG / PhD	Non-Technical	15	11	3
58	School of management	Academic Department with lab facility	Master In Business Administration	UG / PG / PhD	Non-Technical	19	7	2
59	Foundation for technology and Business Incubation (FTBI)	Incubation Unit	Electronics, Agritech	At all level	Both	54	0	4
60	Foundation for technology and Business Incubation (FTBI)	Pre-incubation unit	Electronics, Agritech	At all level	Both	54	0	4

**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 : IC201912423
Trained Innovation Ambassadors at HEI	YES	Not Required
Participation in Smart India Hackathon (SIH)	Yes	Not Required

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

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	Innovation Day Celebrations	Innovation	Awareness	Institute Lead Activity	Foundation for Technology and Business Incubation	15-10-2019 00:00:00	15-10-2019 00:00:00	1	Within Campus	46	1	0	0	47	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 5000	No
2	Rising Bharat Programme	Entrepreneurship/Startup	Mentoring Session	Institute Lead Activity	Foundation for Technology and Business Incubation	22-08-2019 00:00:00	22-08-2019 00:00:00	1	Within Campus	105	3	0	0	108	No	No
3	IP Awareness Workshop	IPR	Workshop	Institute Lead Activity	Foundation for Technology and Business Incubation	13-11-2019 00:00:00	13-11-2019 00:00:00	1	Within Campus	34	20	0	0	54	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 12000	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

No Data Filled!

### 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	TECHNOLOGY AND INNOVATION MANAGEMENT	Innovation	Elective/Core Credit Course	Master	SCHOOL OF MANAGEMENT	10-01-2020	30-04-2020	112	Offline	19	40
2	INDUSTRY-INSTITUTE INTERFACE FOR ENTREPRENEURSHIP DEVELOPMENT	Entrepreneurship/Startup	Short term Course	Short Term Certificate Course	SCHOOL OF MANAGEMENT	08-08-2019	12-08-2019	5	Offline	116	34

**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 Filled!

**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)**

No Data Filled!

**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	E-Cell NIT Rourkela	Startup Club	2007	Co-working Space	Pre-Incubation Unit	7	Satyaranjan Sahoo	satyasahoo987@gmail.com	7400283092

**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)**

Srno	Name of Pre-Incubation Centre	Type of Facility	Year of Establishment	Type of Facilities Available at the Centre	Pre-Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Pre-Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Pre-Incubation Unit 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 Pre-Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation Centre/Facilities?						
1	Foundation for Technology and Business Incubation (FTBI)	Innovation Centre	2016	Co-working Space, 3D Printing & Prototype Equipment, Work Stations	Incubation Unit, Innovation Labs	Incubation Unit, Innovation Labs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Debayan Sarkar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sarkard@nitrkl.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>06612642667</td> </tr> </table>	Facility Incharge Name	Prof. Debayan Sarkar	Facility Incharge Email	sarkard@nitrkl.ac.in	Facility Incharge Phone	06612642667	4	Yes	No	No
Facility Incharge Name	Prof. Debayan Sarkar																
Facility Incharge Email	sarkard@nitrkl.ac.in																
Facility Incharge Phone	06612642667																

**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?
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**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	Practical Renewable Energy System	2012	Innovation Labs	NPIU Govt. of India	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Pravat Kumar Ray</td> </tr> <tr> <td>Facility Incharge Email</td> <td>rayp@nitrkl.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>06612 46241 2</td> </tr> </table>	Facility Incharge Name	Prof. Pravat Kumar Ray	Facility Incharge Email	rayp@nitrkl.ac.in	Facility Incharge Phone	06612 46241 2	8	No	No	No
Facility Incharge Name	Prof. Pravat Kumar Ray														
Facility Incharge Email	rayp@nitrkl.ac.in														
Facility Incharge Phone	06612 46241 2														

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

Srno	Name of Incubation Facility	Year of Establishment	Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Incubation Facility 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 Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Incubation Centre/Facilities?						
1	Foundation for Technology and Business Incubation (FTBI)	2016	Innovation Labs	NONE	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Debayan Sarkar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sarkard@nitrkl.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>06612 64266 7</td> </tr> </table>	Facility Incharge Name	Dr Debayan Sarkar	Facility Incharge Email	sarkard@nitrkl.ac.in	Facility Incharge Phone	06612 64266 7	4	No	No	No
Facility Incharge Name	Dr Debayan Sarkar														
Facility Incharge Email	sarkard@nitrkl.ac.in														
Facility Incharge Phone	06612 64266 7														

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

<b>No Data Filled!</b>
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**Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

Srno	Name of IPR Cell/Technology Transfer Centre Facility	Year of Establishment	IPR Cell/Technology Transfer Centre with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with IPR Cell/Technology Transfer Centre, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the IPR Cell/Technology Transfer Centre 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 IPR Cell/Technology Transfer Centre?	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?
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**Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

1	IPR CELL, NIT ROURKELA	2015	Pre-Incubation, Incubation Unit, Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Saurav Chatterjee</td> </tr> <tr> <td>Facility Incharge Email</td> <td>saurav@nitrkl.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>06612462656</td> </tr> </table>	Facility Incharge Name	Prof. Saurav Chatterjee	Facility Incharge Email	saurav@nitrkl.ac.in	Facility Incharge Phone	06612462656	4	No	No	No
Facility Incharge Name	Prof. Saurav Chatterjee														
Facility Incharge Email	saurav@nitrkl.ac.in														
Facility Incharge Phone	06612462656														

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

**No Data Filled!**

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

**No Data Filled!**

**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**

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation/ Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation/ Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Converted into Venture/ Startup/ SME Unit during the financial period 2019-20	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019
1	ATMA (Advanced Tethered Multi-copter Aircraft)	Product Innovation	Technological	Foundation for Technology & Business Incubation (FTBI)	Alumni	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	No	No	No	No	No



Name		Type							Gender			Email		Contact
Nithin Raja Pathivada		Alumni Entrepreneur							Male			nithin.raj@live.com		8455076801
2	Intelligent Pesticide Sprinkler UAV	Service Innovation	Technological	Innovation & Entrepreneurship Development Cell	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	No	No		No
	Name		Type							Gender			Email	
Soubhagya Nayak		Student							Male			contactus.ftbi@gmail.com		06612462230
3	Brain Controlled Wheel Chair	Product Innovation	Technological	Innovation & Entrepreneurship Development Cell	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	No	No		No
	Name		Type							Gender			Email	
Rishabh Kundu		Student							Male			contactus.ftbi@gmail.com		06612462230

4	Design and development of an in-pipe robot for inspection and cleaning purpose	Product Innovation	Technological	Innovation & Entrepreneurship Development Cell	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Amit Bhowmick	Student	Male	contactus.ftbi@gmail.com	06612462230

5	Electric Solar Vehicle	Product Innovation	Technological	Innovation & Entrepreneurship Development Cell	Student	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Ankit Acharya	Student	Male	contactus.ftbi@gmail.com	06612462230

6	Air and Atmospheric Parameter Measurement device	Product Innovation	Technological	Innovation & Entrepreneurship Development Cell	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Dropped	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Subhrajeet Majhi	Student	Male	contactus.ftbi@gmail.com	0661246280

7	Smart Home System	Product Innovation	Technological	Innovation & Entrepreneurship Development Cell	Student	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	No	No	No	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
CH.Raviteja		Student			Male		contactus.ftbi@gmail.com			06612462230			
8	Development of Lightweight concrete using vermiculite	Product Innovation	Technological	Innovation & Entrepreneurship Development Cell	Student	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	No	No	No	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
M G Subarna Mohanty		Student			Female		contactus.ftbi@gmail.com			06612462230			
9	Green cement from ceramic waste	Product Innovation	Technological	Innovation & Entrepreneurship Development Cell	Student	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	No	No	No	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Barsheek Roy		Student			Male		contactus.ftbi@gmail.com			06612462230			

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

Sr no	Name of the Venture/Startup/SME Unit Established with the Support of HEI	Type of Innovation of Venture/Startup/SME Unit	Nature of Innovation	Name of the Pre-Incubation/Incubation Unit of HEI Supported Innovation Development	Venture Founded by	Venture Registered as	Year of Registration	What is the current status of Pre-Incubation/Incubation Support to Venture/Startup/ SME Unit as on 31st March 2020?	Had the Venture Received any Recognition at State, National, International Level Programs during the financial period 2019-20?	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Venture establishment during the financial period 2019-20	Had the venture/startup raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/ HEI received any income/revenue from venture /startup for the pre-incubation/incubation support and the services offered by Pre-incubation/ incubation or institute during the financial period 2019-20	Has the Start-up Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2019-20
1	Clavictor Academy	Service Innovation	Non-Technological	4452	Student	Venture with Corporate Identification Number (CIN) Registration U80902OR2018PTC029318	2017-18	Received Incubation Support from Incubation Unit	No	No	No	No	No
		Suraj Kumar Nayak		8202832		Student		Male		surajshikshya@gmail.com		06612462230	
2	Humaps	Service Innovation	Technological	4452	Alumni	Venture with Corporate Identification Number (CIN) Registration U72900OR2019PTC031598	2018-19	Received Incubation Support from Incubation Unit	No	No	No	No	No
		Anup Routray		8552175		Alumni Entrepreneur		Male		anupsunni@gmail.com		06612462230	
3	Spunik	Service Innovation	Non-Technological	4452	Alumni	Venture with Corporate Identification Number (CIN) Registration U63030OR2019PTC030168	2018-19	Received Incubation Support from Incubation Unit	No	No	No	No	No

Name		DIN number			Type	Gender	Email	Contact				
Surya Kanta Behera		8319254			Alumni Entrepreneur	Male	suryanitr97@gmail.com	06612462230				
4	Phoenix Robotix	Service Innovation	Technological	4452	Alumni	Venture with Corporate Identification Number (CIN) Registration U32100OR2015P	2015-16	Received Incubation Support from Incubation Unit	No	No	No	No
Name		DIN number			Type	Gender	Email	Contact				
Amiya Samantaray		07159429			Alumni Entrepreneur	Male	amiya@phoenixrobotix.com	06612462230				
5	Awalk Innovations	Service Innovation	Non-Technological	4452	Alumni	Venture with Corporate Identification Number (CIN) Registration U74999OR2017P TC027521	2017-18	Received Incubation Support from Incubation Unit	No	No	No	No
Name		DIN number			Type	Gender	Email	Contact				
Vamsi Krishna		07842146			Alumni Entrepreneur	Male	gvk@awalk.co.in	06612462230				
6	FASTECH FASHIONS PRIVATE LIMITED	Service Innovation	Non-Technological	4452	Alumni	Venture with Corporate Identification Number (CIN) Registration U18109OR2017P TC026591	2017-18	Received Incubation Support from Incubation Unit	No	No	No	No
Name		DIN number			Type	Gender	Email	Contact				
ABHIJEET SAHOO		07528209			Alumni Entrepreneur	Male	abhijeetsahoo006@gmail.com	06612462230				
7	AyurInno Legacy	Product Innovation	Non-Technological	4452	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration U36990OR2020OPC032593	2019-20	Received Incubation Support from Incubation Unit	No	No	No	No
Name		DIN number			Type	Gender	Email	Contact				
Urmimala Das		08683601			Innovator/Entrepreneur External to Institute	Female	contactus.ftbi@gmail.com	06612462230				
8	Biotez Agrinnovation	Product Innovation	Non-Technological	4452	Alumni	Venture with Corporate Identification Number (CIN) Registration U01100OR2020PTC032698	2019-20	Received Incubation Support from Incubation Unit	No	No	No	No
Name		DIN number			Type	Gender	Email	Contact				
Shitarashmi Sahu		08697860			Alumni Entrepreneur	Female	contactus.ftbi@gmail.com	06612462230				

9	Yarev Technology	Product Innovation	Techno logical	4452	Alum ni	Venture with Corporate Identification Number (CIN) Registration U63090OR 2019PTC03 0451	2017 -18	Received Incubation Support from Incubation Unit	No	No	No	No	
Name		DIN number		Type		Gender		Email		Contact			
Avinash kumar		08355224		Alumni Entrepreneur		Male		contactus.ftbi@gmail.com		06612462230			
10	SHIPRO	Service Innovation	Non- Techno logical	4452	Stud ent	Venture with Corporate Identification Number (CIN) Registration U63030OR 2019P TC030168	2018 -19	Received Incubation Support from Incubation Unit	No	No	No	No	
Name		DIN number		Type		Gender		Email		Contact			
SURYA KANTA BEHERA		08319254		Student		Male		suryanitr97@gmail.com		06612462230			
11	GRABBUCKS INTERNET PRIVATE LIMITED	Service Innovation	Non- Techno logical	4452	Stud ent	Venture with Corporate Identification Number (CIN) Registration U74999OR 2016P TC025358	2016 -17	Received Incubation Support from Incubation Unit	No	No	No	No	
Name		DIN number		Type		Gender		Email		Contact			
SARADA PRASAD SAHOO		07528651		Student		Male		sarada@pennyindia.com		06612462230			
12	JBS Agro Farms Pvt LTD	Service Innovation	Non- Techno logical	4452	Alum ni	Venture with Corporate Identification Number (CIN) Registration U01114OR 2019P TC030167	2018 -19	Received Incubation Support from Incubation Unit	No	No	Loan/Investment Agency Name Akshay Mishra	Amount Received in Rs 20000000	No
										Agency Type Akshay Mishra			
										Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees) Akshay Mishra			
										Date of Investment Raised Akshay Mishra			
Name		DIN number		Type		Gender		Email		Contact			
Bharat Gangwar		08319115		Alumni Entrepreneur		Male		amitgangwar13@gmail.com		06612462230			

13	DekhoMarket	Service Innovation	Non-Technological	4452	Alumni	Venture with Corporate Identification Number (CIN) Registration	U74999OR2019P TC030810	2018-19	Received Incubation Support from Incubation Unit	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact			
C S Sambit		08411199		Alumni Entrepreneur		Male		cs.sambit@gmail.com		06612462230			
14	Estinno Energy	Product Innovation	Technological	4452	Alumni	Venture with Corporate Identification Number (CIN) Registration	U31905OR2018PTC028241	2015-16	Received Incubation Support from Incubation Unit	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact			
Anurag Mishra		7997917		Alumni Entrepreneur		Male		anurag.mishra.rkl@gmail.com		06612462230			

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

Srno	Collaborated Agency Name	Collaborated Agency Type	Purpose of Collaboration	Type of Support Offered	No. of Student Projects/ Ideas / Innovation / Startups from the HEI get benefitted through this partnership	Date of MOU / Agreement Signed on
1	Gas Authority of India Ltd. (GAIL)	Govt. Agency (Central)	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Incubation	3	28-09-2019

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

<b>No Data Filled!</b>
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### 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	An intelligent pesticide spraying device for precision agriculture.	201931051523	National	2019 - 12	Uploaded
2	An apparatus for peeling and cutting of tender jackfruit.	201931023023	National	2019 - 11	Uploaded
3	Auto aligned free space optical system.	201931004808	National	2019 - 07	Uploaded
4	Thermal encoding using shape memory alloy(tesma)	202031008991	National	2020 - 03	Uploaded
5	Personalized pollution management (ppm) system.	201931051422	National	2019 - 12	Uploaded

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

<b>No Data Filled!</b>
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**Section 8 > vi : List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner**

**No Data Filled!**



## Declaration

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

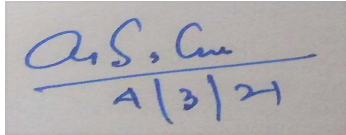
### Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Prof. Animesh Biswas (Head of Institute) and Prof. Santanu Paria (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

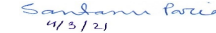


A/S, Animesh Biswas  
4/3/21

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Prof. Animesh Biswas  
Head of the Institution,  
ROURKELA, Odisha

Nodal officer



Santanu Paria  
4/3/21

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Prof. Santanu Paria  
Nodal Officer,  
ROURKELA, Odisha