



ARIIA

ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



MHRD
Ministry of Human
Resource Development
Government of India

Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2019-20

Institute Name: National Institute of Technology Meghalaya [ARI-U-0619]

Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

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?	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)
Cognitia	Innovation	Workshops	Student Lead Activity	Student Activity Centre	02-11-2018 00:00:00	04-11-2018 00:00:00	3	Within Campus	200	10	20	0	230	Yes	100000

Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by reputed external institutions or agencies at national or international level

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 program/activity/event?	Total Expense Amount Incurred by Institute? (In Rupees)
Summer Internship	Innovation	Summer Training	IIT Guwahati	Educational Institute	16-05-2018 00:00:00	10-07-2018 00:00:00	56	1	0	1	No	---	---	No	---
Hands on practices on Power Electronics Circuits	Innovation	Improve Students Learning	NITTTR Chandigarh	Govt. Agency (Central)	23-07-2018 00:00:00	27-07-2018 00:00:00	5	1	0	1	No	---	---	No	---
Advanced Materials Fabrication and Characterization Techniques	Innovation	Training Programme	NIT Silchar	Educational Institute	04-02-2019 00:00:00	08-02-2019 00:00:00	5	1	0	1	No	---	---	No	---

Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by reputed external institutions or agencies at national or international level

Joint UK-India Clean Energy Centre (JUICE) Scheme Exchange Programme	Innovation	Innovation Training	JUICE	Govt. Agency (Central)	23-01-2019 00:00:00	03-03-2019 00:00:00	40	1	0	1	No	---	---	No	---
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Courses on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period 2018-19

Title of Course/Subject Offered	Program Theme	Type of Course	Level of Course	Program Start Date	Program End Date	Program Duration (in Days)	Mode of Delivery	Total Enrolment Number	Total Number of Students Completed	Total Numbers of Contact Hours of Course
B Tech Project	Innovation	Elective/Core Credit Course	Bachelor	31-07-2018 00:00:00	31-05-2019 00:00:00	305	Offline	18	18	60

Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Name of Centre	Type of Facility	Year of Facility Creation	Facility Location / Address	Facility Incharge	Carpet Area of Facility	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation & Incubation Centre/Facilities?	Had institute Generated Income either from Services Offered by Pre-Incubation & Incubation Centre/Facilities?						
Design Innovation Centre	Research Park/Innovation Park	2017	NIT Meghalaya Campus	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Deba Kumar Sarma</td> </tr> <tr> <td>Facility Incharge Email</td> <td>dksarma@nitm.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9485177041</td> </tr> </table>	Facility Incharge Name	Deba Kumar Sarma	Facility Incharge Email	dksarma@nitm.ac.in	Facility Incharge Phone	9485177041	1000 Sq. Ft.	No	No
Facility Incharge Name	Deba Kumar Sarma												
Facility Incharge Email	dksarma@nitm.ac.in												
Facility Incharge Phone	9485177041												

Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus

Name of Centre	Source of Grant / Fund	Agency Name	Agency Type	Had Received Grants / Funds by Pre-Incubation & Incubation Centre / Facilities exists in Campus?	Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
Design Innovation Centre	Funding Agency	Ministry of Human Resource Development	Govt. Agency (Central)	Yes	10000000

Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	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 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute 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 2018-19?
Design and Development of the Small Wind Turbine Combined with Solar system for Household Application	Design Innovation Centre	TRL 6 : Prototype system tested in intended environment close to expected performance.	Faculty and Student	2017	IP / Patented Technology	Completed but No Further Action Taken	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Yes	No	No
					Applied for Patent					
Principal Innovator										
Name				Type		Gender		Email		Contact
Dr Bikash Kumar Sarkar				Faculty		Male		bikash.sarkar@nitm.ac.in		9485177038
Design and Fabrication of Pineapple slicer	Design Innovation Centre	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Faculty and Student	2017	IP / Patented Technology	Receiving Incubation Support at Incubation Centre	TRL 6 : Prototype system tested in intended environment close to expected performance.	Yes	No	No
					Applied for Patent					
Principal Innovator										
Name				Type		Gender		Email		Contact
Dr Tanmoy Bose				Faculty		Male		tanmoy.bose@nitm.ac.in		9485177010

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Design and Fabrication of Corn (Maize) Shelling Machine to Promote Productivity of Corn in Meghalaya		Design Innovation Centre	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Faculty	2017	<table border="1"> <tr> <th>IP / Patented Technology</th> <td></td> </tr> <tr> <td>Applied for Patent</td> <td>No</td> </tr> <tr> <td>Patent Application No</td> <td></td> </tr> <tr> <td>Year of Patent Application</td> <td></td> </tr> </table>		IP / Patented Technology		Applied for Patent	No	Patent Application No		Year of Patent Application		Completed and Ready for Commercialization/Incubation	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	<table border="1"> <tr> <td>Yes</td> </tr> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>294400</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	294400	No				
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Name	Type	Gender	Email	Contact																						
Dr Koushik Das	Faculty	Male	koushik.das@nitm.ac.in	9485177054																						
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Co-Innovator																										
Name	Type	Gender	Email	Contact																						
Dr D K Sarma	Faculty	Male	dkarma@nitm.ac.in	9485177041																						
Design and Fabrication of Coconut Deshelling Machine for Domestic and Small-Scale Industry Applications	Design Innovation Centre	TRL 6 : Prototype system tested in intended environment close to expected performance.	Faculty	2017	<table border="1"> <tr> <th>IP / Patented Technology</th> <td></td> </tr> <tr> <td>Applied for Patent</td> <td>No</td> </tr> <tr> <td>Patent Application No</td> <td></td> </tr> <tr> <td>Year of Patent Application</td> <td></td> </tr> </table>		IP / Patented Technology		Applied for Patent	No	Patent Application No		Year of Patent Application		Completed and Commercialize as Satrap/Company	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	<table border="1"> <tr> <td>Yes</td> </tr> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>324400</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	324400	No	No				
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Principal Innovator																				
Name		Type			Gender		Email		Contact											
Dr Maneswar Rahang		Faculty			Male		maneswar_rahang@nitm.ac.in		9402102355											
A low cost Thermoelectric Generator based energy generating probe that can be used with existing stoves in rural villages in North-East India	Design Innovation Centre	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Faculty and Student	2017	<table border="1"> <tr> <th colspan="2">IP / Patented Technology</th> </tr> <tr> <td>Applied for Patent</td> <td>No</td> </tr> <tr> <td>Patent Application No</td> <td></td> </tr> <tr> <td>Year of Patent Application</td> <td></td> </tr> </table>	IP / Patented Technology		Applied for Patent	No	Patent Application No		Year of Patent Application		Completed and Ready for Commercialization/Incubation	TRL 6 : Prototype system tested in intended environment close to expected performance.	<table border="1"> <tr> <td>Yes</td> </tr> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>110000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	110000	No
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No	Principal Innovator																			
Name		Type			Gender		Email		Contact											
Dr. Deba Kumar Sarma		Faculty			Male		dksarma@nitm.ac.in		9485177041											
Bioremediation of Waste Water-Employing a low cost waste water cell.	Design Innovation Centre	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Faculty	2017	Non-IP / Non-Patented Technology	Completed and Commercialize as Satrap/Company	TRL 6 : Prototype system tested in intended environment close to expected performance.	<table border="1"> <tr> <td>Yes</td> </tr> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>350000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	350000	No								
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		Principal Innovator																							
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Dr Susmita Sharma	Faculty	Female	susmita.sharma4@nitm.ac.in	9402102414																					
Design of a shallow water turbine for energy harvesting, utilizing stream water in hilly places	Design Innovation Centre	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Faculty	2017	<table border="1"> <thead> <tr> <th colspan="2">IP / Patented Technology</th> </tr> </thead> <tbody> <tr> <td>Applied for Patent</td> <td>No</td> </tr> <tr> <td>Patent Application No</td> <td></td> </tr> <tr> <td>Year of Patent Application</td> <td></td> </tr> </tbody> </table>	IP / Patented Technology		Applied for Patent	No	Patent Application No		Year of Patent Application		Completed and Ready for Commercialization/Incubation	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	<table border="1"> <thead> <tr> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> <td></td> </tr> <tr> <td>1366800</td> <td></td> </tr> </tbody> </table>	Yes	No	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)		1366800		No		
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Name	Type	Gender	Email	Contact																					
Dr. Koushik Das	Faculty	Male	koushik.das@nitm.ac.in	9485177054																					

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Design Innovation Centre	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Faculty	2017	Non-IP / Non-Patented Technology	Completed and Ready for Commercialization/Incubation	TRL 5 : Large scale prototype tested in intended environment.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>110000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	110000	No	No	Standalone solar tea or coffee maker cum multipurpose water heating system																														
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Principal Innovator				
Name	Type	Gender	Email	Contact
Dr. Rajat Subhra Das	Faculty	Male	rajatsubhra@nitm.ac.in	9402102380

Co-Innovator				
Name	Type	Gender	Email	Contact
Dr.Sanjoy Debbarma	Faculty	Male	sanjoy.debbarma@nitm.ac.in	9485177007

Design Innovation Centre	TRL 6 : Prototype system tested in intended environment close to expected performance.	Faculty	2017	<table border="1"> <tr> <th colspan="2">IP / Patented Technology</th> </tr> <tr> <td>Applied for Patent</td> <td>No</td> </tr> <tr> <td>Patent Application No</td> <td></td> </tr> <tr> <td>Year of Patent Application</td> <td></td> </tr> </table>	IP / Patented Technology		Applied for Patent	No	Patent Application No		Year of Patent Application		Completed and Ready for Commercialization/Incubation	TRL 5 : Large scale prototype tested in intended environment.	<table border="1"> <tr> <td>Yes</td> <td>No</td> </tr> <tr> <td colspan="2">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td colspan="2">110000</td> </tr> </table>	Yes	No	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)		110000		No	No
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110000																							

Principal Innovator				
Name	Type	Gender	Email	Contact
Dr. Ayon Bhattacharjee	Faculty	Male	ayonbh@nitm.ac.in	9485177033

Shoebox Science laboratory for class X students of Meghalaya Board (MBOSE).

Start-ups have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

No Data Filled!

Co-Incubation Partnership

No Data Filled!

Technology Commercialization / Transfer

No Data Filled!

Responsibility for accuracy and authenticity of data lies with the concerned institution.