



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: Indian Institute of Technology Bhubaneswar [ARI-U-0355]

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)
Orientation on Projects and Equipments of DIC	Innovation	Orientation Session	Institute Lead Activity	Design Innovation Center	10-08-2018 00:00:00	10-08-2018 00:00:00	1	Within Campus	50	5	0	0	55	Yes	2500
Orientation on Projects and Equipments of DIC	Innovation	Orientation Session	Institute Lead Activity	Design Innovation Center	31-08-2018 00:00:00	31-08-2018 00:00:00	1	Within Campus	50	5	0	0	55	Yes	2500
Orientation on PYTHON	Innovation	Orientation Session	Institute Lead Activity	Design Innovation Center	10-11-2018 00:00:00	10-11-2018 00:00:00	1	Within Campus	100	3	0	0	103	Yes	5000
Introduction to Composites and Manufacturing Processes	Innovation	Orientation Session	Student Lead Activity	Design Innovation Center	21-12-2018 00:00:00	21-12-2018 00:00:00	1	Within Campus	30	3	0	0	33	No	---
Exhibition of Projects	Innovation	Exposure Visit	Institute Lead Activity	Design Innovation Center	12-02-2019 00:00:00	12-02-2019 00:00:00	1	Within Campus	80	10	4500	500	5090	Yes	20000
E-Summit 19	Entrepreneurship/Startup	B - Plan competitions , Ideation, workshop, mentoring	Student Lead Activity	Entrepreneurship Cell	18-01-2019 00:00:00	20-01-2019 00:00:00	3	Within Campus	300	3	150	0	453	Yes	785426
HackAR Challengee 2019 as a part of Wissensaire 2019	Innovation	Hackthon	Student Lead Activity	Hackthon was part of the yearly technical festival Wissensaire 2019 which was organized by the students.	01-02-2019 00:00:00	03-02-2019 00:00:00	3	Within Campus	200	10	200	0	410	Yes	200000

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

E-Day 2018	Entrepreneurship/Startup, Innovation	exposure visit, motivational speak, Orientation Session, Ideation	Institute Lead Activity	Entrepreneurship Cell	17-09-2018 00:00:00	17-09-2018 00:00:00	1	Within Campus	350	0	0	0	350	Yes	21030
Wissenaire-Technical Session-Teknite	Innovation	Orientation Session	Institute Lead Activity	Design Innovation Center	25-01-2019 00:00:00	25-01-2019 00:00:00	1	Within Campus	80	10	0	0	90	Yes	90000

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)
Session for validation and implementation of idea in reality	Innovation	Orientation Session	BOSE, CUTTACK (SPOKE)	Educational Institute	29-11-2018 00:00:00	29-11-2018 00:00:00	1	0	2	2	No	---	---	Yes	1500
TechKriti 2018-19	Innovation	Innovation Contest	IIT Kanpur	Educational Institute	07-03-2019 00:00:00	11-03-2019 00:00:00	5	6	0	6	Yes	First position trophy with cash prize	Prajawala An IoT based price fragmentation, pay as you use and supply chain automation and cloud based optimization of LPG distribution in India	Yes	33338
National Student Science Congress	Innovation	Awareness	SoA University	Educational Institute	27-12-2018 00:00:00	31-12-2018 00:00:00	5	10	10	20	No	---	---	No	---
Make in Odisha Conclave	Entrepreneurship/Startup	Demo Day, awareness, Start-up conclave	State Govt. of Odisha	Govt. Agency (State)	12-11-2018 00:00:00	15-11-2018 00:00:00	4	10	10	20	No	---	---	No	---
Mind Rover Season 7	Innovation	Innovation Contest	Tata Motors	Corporate / Industry Association	28-03-2019 00:00:00	28-03-2019 00:00:00	1	3	0	3	Yes	2nd Prize	End of life vehicle and reuse, recycle and recovery policy	No	---

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
Operations Management	Entrepreneurship/Startup	Elective/Core Credit Course	Master	26-07-2018 00:00:00	20-11-2018 00:00:00	118	Offline	10	10	42
Industrial Engineering And Management	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	01-01-2019 00:00:00	20-04-2019 00:00:00	110	Offline	24	24	50
Ethics and Leadership Skills for Technocrats	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	26-07-2018 00:00:00	20-11-2018 00:00:00	118	Offline	19	19	42
Course 100 (PM YUVA)	Entrepreneurship/Startup	Short term Certificate	Short Term Certificate Course	18-01-2019 00:00:00	18-04-2019 00:00:00	91	Online	18	18	40

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?																				
Technology Incubation centre	Pre-Incubation Centre	2016	IIT Bhubaneswar	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Gaurav Bartarya</td> </tr> <tr> <td>Facility Incharge Email</td> <td>bartarya@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9450612482</td> </tr> </table>	Facility Incharge Name	Dr. Gaurav Bartarya	Facility Incharge Email	bartarya@iitbbs.ac.in	Facility Incharge Phone	9450612482	0 Sq. Ft.	No	No														
Facility Incharge Name	Dr. Gaurav Bartarya																										
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Startup Center IIT Bhubaneswar	Incubation Unit	2016	Startup Center, IIT Bhubaneswar Samantapuri campus, Bhubaneswar- 751013	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Yogesh G. Bhumkar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>bhumkar@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>7749805618</td> </tr> </table>	Facility Incharge Name	Dr. Yogesh G. Bhumkar	Facility Incharge Email	bhumkar@iitbbs.ac.in	Facility Incharge Phone	7749805618	40000 Sq. Ft.	<table border="1"> <thead> <tr> <th colspan="2">Yes</th> </tr> </thead> <tbody> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>0</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>3865574</td> </tr> </tbody> </table>	Yes		Annual Capital Expenditure (In Rupees)	0	Annual Operational Expenditure (In Rupees)	3865574	<table border="1"> <thead> <tr> <th colspan="2">Yes</th> </tr> </thead> <tbody> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>467488</td> </tr> </tbody> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	0	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	467488
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Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Design Innovation Center	Pre-Incubation Centre	2015	Design Innovation Center, School of Mechanical Science, IITBBS, Arugul, Jatni	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Satyanarayan Panigrahi</td> </tr> <tr> <td>Facility Incharge Email</td> <td>psatyan@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9556273389</td> </tr> </table>	Facility Incharge Name	Dr. Satyanarayan Panigrahi	Facility Incharge Email	psatyan@iitbbs.ac.in	Facility Incharge Phone	9556273389	0 Sq. Ft.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>2031364</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>4385610</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	2031364	Annual Operational Expenditure (In Rupees)	4385610	No
Facility Incharge Name	Dr. Satyanarayan Panigrahi																		
Facility Incharge Email	psatyan@iitbbs.ac.in																		
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Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus

No Data Filled!

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?			
Development of polymer resin based composites to repair leaking defects in pipelines (Project part of start-up Vasisht Pvt. Ltd.)	Design Innovation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Completed and Commercialized as Licensing/Tech Tra	TRL 8 : First of a kind commercial system. Manufacturing issues solved.	<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>200000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	200000	No	No
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Name		Type		Gender		Email		Contact					
Nitheesh Kumar		Student		Male		pnk10@iitbbs.ac.in		8895745263					

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Horizontally direction changing drone	Design Innovation Center	TRL 0 : Idea. Unproven concept, no testing has been performed.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	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>20000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	20000	No	No																																									
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Automatic Railway gate controller using micro controller	Design Innovation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<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>18000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	18000	No	No
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Principal Innovator													
Name			Type		Gender		Email		Contact				
Pawan Kumar Saini			Student		Male		ps21@iitbbs.ac.in		8280549173				
Co-Innovator													
Name			Type		Gender		Email		Contact				
Rameshwar Prasad Meena			Student		Male		rpm10@iitbbs.ac.in		9460004085				
PhotonX	Design Innovation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	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>22000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	22000	No	No
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Dobsorian Telescope making	Design Innovation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<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>24000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	24000	No	No																		
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Earthquake analysis of building using Mass Shaker	Design Innovation Center	TRL 0 : Idea. Unproven concept, no testing has been performed.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Yes	No	No
								Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)		
								15000		
								Principal Innovator		
Name			Type		Gender		Email		Contact	
Shambhu Pratap Singh			Student		Male		sps12@iitbbs.ac.in		9078634217	
Co-Innovator										
Name			Type		Gender		Email		Contact	
Aditya Kumar Pandey			Student		Male		akp13@iitbbs.ac.in		7077540312	
Augmented Reality sandbox	Design Innovation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty and Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No
								Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)		
								110000		

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Development of resin system for elevated temperature applications	Design Innovation Center	TRL 0 : Idea. Unproven concept, no testing has been performed.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	<table border="1"> <tr> <td data-bbox="1646 858 1816 901">Yes</td> </tr> <tr> <td data-bbox="1646 901 1816 1125">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td data-bbox="1646 1125 1816 1177">10000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No	No																																					
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Vivek Vardhan	Student	Male	tvv14@iitbbs.ac.in	7657091884																															
Self car parking system	Design Innovation Center	TRL 0 : Idea. Unproven concept, no testing has been performed.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	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>24000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	24000	No	No																						
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Robotic hand	Design Innovation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 8 : First of a kind commercial system. Manufacturing issues solved.	Yes	No	No									
								Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)											
								18000											
								Principal Innovator											
								Name			Type		Gender		Email		Contact		
Halawath Ganesh N. Rao		Student		Male		gnr10@iitbbs.ac.in		8763924594											
Co-Innovator																			
Name		Type		Gender		Email		Contact											
Raushan Kumar		Student		Male		rk26@iitbbs.ac.in		8184980960											
Design and modelling of an Electric Motor Bike	Design Innovation Center	TRL 0 : Idea. Unproven concept, no testing has been performed.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Yes	No	No									
								Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)											
								120000											

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Marigold Garlanding Machine	Design Innovation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<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>10000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No	No												
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Ballistic Chronograph	Design Innovation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Yes	No	No										
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			Name		Type		Gender		Email		Contact									
			Abhilash Talwatkar		Student		Male		ast11@iitbbs.ac.in		9545979629									
Smart Home Automation	Technology Incubation centre	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2017	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	No	No	No										
											Principal Innovator									
														Name		Type		Gender		Email
			Dr. Barathram Ramkumar		Faculty		Male		barathram@iitbbs.ac.in		6747135710									

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IoT enabled power quality monitoring devices	Technology Incubation centre	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2017	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	No	No	No																										
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Smart Sensing and Monitoring Devices	Technology Incubation centre	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2017	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	No	No	No																										
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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?
Co-Innovator										
			Name	Type	Gender	Email	Contact			
			Dr. Barathram. Ramkumar	Faculty	Male	barathram@iitbbs.ac.in	6747135710			
			Dr. Srinivas Bhaskar Karanki	Faculty	Male	skaranki@iitbbs.ac.in	06747135746			

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.