



# 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: BML MUNJAL UNIVERSITY [ARI-U-0735]

#### 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)
University of California, Berkeley Micro Accelerator Program	Entrepreneurship/Startup	Workshop on IoT and sensors	Institute Lead Activity	University of California, Berkeley	18-02-2019 00:00:00	22-02-2019 00:00:00	5	Within Campus	68	8	1000	24	1100	Yes	1600000
Workshop on IPR for Faculty and Students	IPR	Workshop	Institute Lead Activity	BML Munjal University	01-02-2019 00:00:00	01-02-2019 00:00:00	1	Within Campus	269	79	0	0	348	Yes	1600
Workshop on IPR for Faculty and Students	IPR	Workshop	Institute Lead Activity	BML Munjal University	08-03-2019 00:00:00	08-03-2019 00:00:00	1	Within Campus	146	79	0	0	225	Yes	1600
Workshop on IPR for Faculty and Students	IPR	Workshop	Institute Lead Activity	BML Munjal University	28-03-2019 00:00:00	28-03-2019 00:00:00	1	Within Campus	322	79	0	0	401	Yes	1600
Designing Thinking	Entrepreneurship/Startup	Workshop	Institute Lead Activity	School of Management	23-08-2019 00:00:00	23-08-2019 00:00:00	1	Within Campus	65	2	0	0	67	Yes	20000
Design Thinking	Entrepreneurship/Startup	Workshop	Institute Lead Activity	School of Management	14-02-2018 00:00:00	14-02-2018 00:00:00	1	Within Campus	65	2	1	1	69	No	---
Strategic Marketing	Entrepreneurship/Startup	Orientation session	Institute Lead Activity	School of Management	21-11-2018 00:00:00	21-11-2018 00:00:00	1	Within Campus	60	2	0	0	62	No	---
A career in Brand Management - Best Practices	Entrepreneurship/Startup	Workshop	Institute Lead Activity	School of Management	06-02-2018 00:00:00	06-02-2018 00:00:00	1	Within Campus	60	2	0	0	62	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**

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)
Technology and IP Turning Ideas into Impact A Perspective on Technology Transfer IP, Commercialization, Valuation and Industry Academia linkages	IPR	Conference	British High Commission and the UK Intellectual Property Office	International Agencies	18-03-2019 00:00:00	18-03-2019 00:00:00	1	0	1	1	No	---	---	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
Innovation and Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	10-01-2018 00:00:00	30-05-2018 00:00:00	141	Offline	315	310	48
Understanding Business	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	30-05-2018 00:00:00	30-11-2018 00:00:00	185	Offline	417	415	48
Problem Solving and Consulting	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	05-01-2018 00:00:00	30-05-2018 00:00:00	146	Offline	155	155	48
Dynamics of Family Business	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	23-07-2018 00:00:00	31-12-2018 00:00:00	162	Offline	6	6	56
SME Business Management	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	01-01-2018 00:00:00	30-06-2018 00:00:00	181	Offline	6	6	56
Bringing Ideas to Market	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	22-06-2018 00:00:00	31-12-2018 00:00:00	193	Offline	6	6	56
SME Financing	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	23-07-2018 00:00:00	31-12-2018 00:00:00	162	Offline	6	6	56
Critical Reasoning and Systems Thinking	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	25-07-2018 00:00:00	28-12-2018 00:00:00	157	Offline	150	150	48

**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	Had institute Generated Income either from Services Offered by Pre-Incubation & Incubation Centre/Facilities?
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**Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus**

						Pre-Incubation & Incubation Centre/Facilities?			
Propel	Incubation Unit	2019	BMU Campus	Facility Incharge Name	Dr. Ashish Bharadwaj	12500 Sq. Ft.	Yes		No
				Facility Incharge Email	ashish.bharadwaj@bmu.edu.in		Annual Capital Expenditure (In Rupees)	0	
				Facility Incharge Phone	9810059813		Annual Operational Expenditure (In Rupees)	270486	
Tinkering Lab	Pre-Incubation Centre	2018	BMU Workshop Area	Facility Incharge Name	Dr. Surya Prakash	895 Sq. Ft.	Yes		No
				Facility Incharge Email	surya.prakash@bmu.edu.in		Annual Capital Expenditure (In Rupees)	1000000	
				Facility Incharge Phone	7877445401		Annual Operational Expenditure (In Rupees)	48330	
Maker Space	Pre-Incubation Centre	2018	BMU Workshop	Facility Incharge Name	Dr. Surya Prakash	500 Sq. Ft.	Yes		No
				Facility Incharge Email	surya.prakash@bmu.edu.in		Annual Capital Expenditure (In Rupees)	100000	
				Facility Incharge Phone	7877445401		Annual Operational Expenditure (In Rupees)	27000	
Siemens Centre of Excellence in Automation, Robotics and Mechatronics	Centre of Excellence with Advance Tools & Equipment	2016	BMU Campus	Facility Incharge Name	Dr Sushil Chandra	11474 Sq. Ft.	Yes		No
				Facility Incharge Email	sushil.chandra@bmu.edu.in		Annual Capital Expenditure (In Rupees)	0	
				Facility Incharge Phone	9810495886		Annual Operational Expenditure (In Rupees)	619596	

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

IPR Cell	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	2019	E-2 Building, BMU Campus	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Goldie Gabrani</td> </tr> <tr> <td>Facility Incharge Email</td> <td>goldie.gabrani@bmu.edu.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9899937147</td> </tr> </table>	Facility Incharge Name	Dr. Goldie Gabrani	Facility Incharge Email	goldie.gabrani@bmu.edu.in	Facility Incharge Phone	9899937147	150 Sq. Ft.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>100000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>8100</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	100000	Annual Operational Expenditure (In Rupees)	8100	No								
Facility Incharge Name	Dr. Goldie Gabrani																										
Facility Incharge Email	goldie.gabrani@bmu.edu.in																										
Facility Incharge Phone	9899937147																										
Yes																											
Annual Capital Expenditure (In Rupees)	100000																										
Annual Operational Expenditure (In Rupees)	8100																										
Centre for Advanced Material & Devices (CAMD)	Centre of Excellence with Advance Tools & Equipment	2017	E-2 Building, BMU Campus	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Vandana Suhag</td> </tr> <tr> <td>Facility Incharge Email</td> <td>vandana.suhag@bmu.edu.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>8003599903</td> </tr> </table>	Facility Incharge Name	Dr. Vandana Suhag	Facility Incharge Email	vandana.suhag@bmu.edu.in	Facility Incharge Phone	8003599903	6071 Sq. Ft.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>0</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>327834</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	0	Annual Operational Expenditure (In Rupees)	327834	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <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>1740000</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>0</td> </tr> </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)	1740000	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0
Facility Incharge Name	Dr. Vandana Suhag																										
Facility Incharge Email	vandana.suhag@bmu.edu.in																										
Facility Incharge Phone	8003599903																										
Yes																											
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Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0																										
High Performance Computing Cluster	Centre of Excellence with Advance Tools & Equipment	2017	GA, 1st Floor, BMU Campus	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Sudip Sanyal</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sudip.sanyal@bmu.edu.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>8295939278</td> </tr> </table>	Facility Incharge Name	Dr. Sudip Sanyal	Facility Incharge Email	sudip.sanyal@bmu.edu.in	Facility Incharge Phone	8295939278	100 Sq. Ft.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>9000000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>5400</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	9000000	Annual Operational Expenditure (In Rupees)	5400	No								
Facility Incharge Name	Dr. Sudip Sanyal																										
Facility Incharge Email	sudip.sanyal@bmu.edu.in																										
Facility Incharge Phone	8295939278																										
Yes																											
Annual Capital Expenditure (In Rupees)	9000000																										
Annual Operational Expenditure (In Rupees)	5400																										
AIMA Bizlab Simulations Lab	Pre-Incubation Centre	2019	NB 208, E2 Building BMU Campus	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Rik Paul</td> </tr> <tr> <td>Facility Incharge Email</td> <td>rik.paul@bmu.edu.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>8008930077</td> </tr> </table>	Facility Incharge Name	Dr. Rik Paul	Facility Incharge Email	rik.paul@bmu.edu.in	Facility Incharge Phone	8008930077	600 Sq. Ft.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>200000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>32400</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	200000	Annual Operational Expenditure (In Rupees)	32400	No								
Facility Incharge Name	Dr. Rik Paul																										
Facility Incharge Email	rik.paul@bmu.edu.in																										
Facility Incharge Phone	8008930077																										
Yes																											
Annual Capital Expenditure (In Rupees)	200000																										
Annual Operational Expenditure (In Rupees)	32400																										

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

Centre for Inclusive Innovation	Pre-Incubation Centre	2018	BMU Campus	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Vishal Talwar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>vishal.talwar@bmu.edu.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>8800424411</td> </tr> </table>	Facility Incharge Name	Dr. Vishal Talwar	Facility Incharge Email	vishal.talwar@bmu.edu.in	Facility Incharge Phone	8800424411	1200 Sq. Ft.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>2400000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>64800</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	2400000	Annual Operational Expenditure (In Rupees)	64800	No
Facility Incharge Name	Dr. Vishal Talwar																		
Facility Incharge Email	vishal.talwar@bmu.edu.in																		
Facility Incharge Phone	8800424411																		
Yes																			
Annual Capital Expenditure (In Rupees)	2400000																		
Annual Operational Expenditure (In Rupees)	64800																		

### 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)
Siemens Centre of Excellence in Automation, Robotics and Mechatronics	Funding Agency	Siemens and Heromoto Corp	Corporate / Industry Association	Yes	14800000
Centre for Advanced Material & Devices (CAMD)	Funding Agency	Heromoto Corp	Corporate / Industry Association	Yes	126800000

### 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?											
SYSTEM AND METHOD FOR AUTHORIZATION OF SENSOR NODES IN WIRELESS SENSOR NETWORKS	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty and Student	2019	<table border="1"> <tr> <td colspan="2">IP / Patented Technology</td> </tr> <tr> <td>Applied for Patent</td> <td>Yes</td> </tr> <tr> <td>Patent Application No</td> <td>201911001786</td> </tr> <tr> <td>Year of Patent Application</td> <td>2019</td> </tr> </table>	IP / Patented Technology		Applied for Patent	Yes	Patent Application No	201911001786	Year of Patent Application	2019	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>25700</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	25700	No	No
IP / Patented Technology																					
Applied for Patent	Yes																				
Patent Application No	201911001786																				
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<b>Principal Innovator</b>											
Name				Type		Gender		Email		Contact	
Sunil Gupta				Faculty		Male		sunil.gupta@bmu.edu.in		0000000000	
<b>Co-Innovator</b>											
Name				Type		Gender		Email		Contact	
Sunil Gupta				Faculty		Male		sunil.gupta@bmu.edu.in		0000000000	

METHOD FOR ENHANCING DATA AVAILABILITY IN VANET	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	<table border="1"> <tr> <th colspan="2">IP / Patented Technology</th> </tr> <tr> <td>Applied for Patent</td> <td>Yes</td> </tr> <tr> <td>Patent Application No</td> <td>2019 1102 0384</td> </tr> <tr> <td>Year of Patent Application</td> <td>2019</td> </tr> </table>	IP / Patented Technology		Applied for Patent	Yes	Patent Application No	2019 1102 0384	Year of Patent Application	2019	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>25700</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	25700	No	No
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Applied for Patent	Yes																				
Patent Application No	2019 1102 0384																				
Year of Patent Application	2019																				
Yes																					
Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)																					
25700																					

<b>Principal Innovator</b>											
Name				Type		Gender		Email		Contact	
Brij Bihari Dubey				Faculty		Male		brijbihari.dubey@bmu.edu.in		9882464748	
<b>Co-Innovator</b>											
Name				Type		Gender		Email		Contact	
Brij Bihari Dubey				Faculty		Male		brijbihari.dubey@bmu.edu.in		9882464748	

**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?	
LIQUID GENERATING SYSTEM AND ITS METHOD THEREOF	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	IP / Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No	
					Applied for Patent						Yes
					Patent Application No						2019 1102 0387
					Year of Patent Application					25700	
<b>Principal Innovator</b>											
Name				Type		Gender		Email		Contact	
Amarnath Bheemaraju				Faculty		Male		amarnath.bheemaraju@bmu.edu.in		7204110470	
<b>Co-Innovator</b>											
Name				Type		Gender		Email		Contact	
Amarnath Bheemaraju				Faculty		Male		amarnath.bheemaraju@bmu.edu.in		7204110470	
INTELLIGENT HEALTHCARE SECURITY METHOD	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	IP / Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No	
					Applied for Patent			Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)			
					Patent Application No	2019 1102 0385					
					Year of Patent Application	2019			25700		

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

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<table border="1"> <thead> <tr> <th colspan="11">Principal Innovator</th> </tr> <tr> <th colspan="3">Name</th> <th colspan="2">Type</th> <th colspan="2">Gender</th> <th colspan="2">Email</th> <th colspan="2">Contact</th> </tr> </thead> <tbody> <tr> <td colspan="3">Sunil Gupta</td> <td colspan="2">Faculty</td> <td colspan="2">Male</td> <td colspan="2">sunil.gupta@bmu.edu.in</td> <td colspan="2">0000000000</td> </tr> </tbody> </table>											Principal Innovator											Name			Type		Gender		Email		Contact		Sunil Gupta			Faculty		Male		sunil.gupta@bmu.edu.in		0000000000	
Principal Innovator																																											
Name			Type		Gender		Email		Contact																																		
Sunil Gupta			Faculty		Male		sunil.gupta@bmu.edu.in		0000000000																																		
<table border="1"> <thead> <tr> <th colspan="11">Co-Innovator</th> </tr> <tr> <th colspan="3">Name</th> <th colspan="2">Type</th> <th colspan="2">Gender</th> <th colspan="2">Email</th> <th colspan="2">Contact</th> </tr> </thead> <tbody> <tr> <td colspan="3">Goldie Gabrani</td> <td colspan="2">Faculty</td> <td colspan="2">Female</td> <td colspan="2">goldie.gabrani@bmu.edu.in</td> <td colspan="2">9899937147</td> </tr> </tbody> </table>											Co-Innovator											Name			Type		Gender		Email		Contact		Goldie Gabrani			Faculty		Female		goldie.gabrani@bmu.edu.in		9899937147	
Co-Innovator																																											
Name			Type		Gender		Email		Contact																																		
Goldie Gabrani			Faculty		Female		goldie.gabrani@bmu.edu.in		9899937147																																		
SYSTEM AND METHOD FOR PREDICTING USAGE OF DRUGS	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	<table border="1"> <thead> <tr> <th colspan="2">IP / Patented Technology</th> </tr> </thead> <tbody> <tr> <td>Applied for Patent</td> <td>Yes</td> </tr> <tr> <td>Patent Application No</td> <td>2019 1102 0383</td> </tr> <tr> <td>Year of Patent Application</td> <td>2019</td> </tr> </tbody> </table>	IP / Patented Technology		Applied for Patent	Yes	Patent Application No	2019 1102 0383	Year of Patent Application	2019	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<table border="1"> <thead> <tr> <th>Yes</th> </tr> </thead> <tbody> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>25700</td> </tr> </tbody> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	25700	No	No																						
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Principal Innovator																																											
Name			Type		Gender		Email		Contact																																		
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Co-Innovator																																											
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Purnendu Shekhar Pandey			Faculty		Male		purnendu.pandey@bmu.edu.in		7082408416																																		



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METHOD FOR SECURELY EXCHANGING DATA IN CLOUD ENVIRONMENT	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	IP / Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No																					
					Applied for Patent						Yes																				
					Patent Application No						2019 1102 0386																				
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Pradeep Kumar Arya	Faculty	Male	pradeep.arya@bmu.edu.in	9557300708																											
AUTOMATED SYSTEM AND METHOD FOR CONTROLLING ELECTRICAL APPLIANCES	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	IP / Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No																					
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<b>Principal Innovator</b>											
Name				Type		Gender		Email		Contact	
Purnendu Shekhar Pandey				Faculty		Male		purnendu.pandey@bmu.edu.in		7082408416	
<b>Co-Innovator</b>											
Name				Type		Gender		Email		Contact	
Purnendu Shekhar Pandey				Faculty		Male		purnendu.pandey@bmu.edu.in		7082408416	

SYSTEM FOR REDUCING DATA DUPLICATION	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	IP / Patented Technology		Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes		No	No
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					Year of Patent Application	2019						

<b>Principal Innovator</b>											
Name				Type		Gender		Email		Contact	
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<b>Co-Innovator</b>											
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Annam Setu Durgesh Vinay				Student		Male		annam.vinay.15csc@bml.edu.in		14803707965	

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SURFACE INSPECTION SYSTEM AND A METHOD THEREOF	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	<table border="1"> <tr> <th colspan="2">IP / Patented Technology</th> </tr> <tr> <td>Applied for Patent</td> <td>Yes</td> </tr> <tr> <td>Patent Application No</td> <td>2019 1102 0378</td> </tr> <tr> <td>Year of Patent Application</td> <td>2019</td> </tr> </table>	IP / Patented Technology		Applied for Patent	Yes	Patent Application No	2019 1102 0378	Year of Patent Application	2019	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>25700</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	25700	No	No
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25700																					

**Principal Innovator**

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Abhimanyu Singh Rana	Faculty	Male	abhimanyu.rana@bmu.edu.in	9837752718

**Co-Innovator**

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Nikhil kumar koditala	Student	Male	nikhil.koditala.15cse@bml.edu.in	9490440657																																				
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					IP / Patented Technology	Applied for Patent															
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					Applied for Patent	2019 1102 0380															
					Year of Patent Application	2019															
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Name	Type	Gender	Email	Contact																	
Yash Khandelwal	Student	Male	yash.khandelwal.15csc@bml.edu.in	7082870363																	
SURVEILLANCE SYSTEM AND METHOD FOR THE SAME	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	IP / Patented Technology	Yes	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No										
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<b>Principal Innovator</b>				
Name	Type	Gender	Email	Contact
Brij Bihari Dubey	Faculty	Male	brijbihari.dubey@bmu.edu.in	9882464748

  

<b>Co-Innovator</b>				
Name	Type	Gender	Email	Contact
Arpit Bindal	Student	Male	arpit.bindal.15cse@bml.edu.in	9086098425
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PRODUCT INFORMATION RETRIEVAL SYSTEM AND A METHOD THEREOF	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	<b>IP / Patented Technology</b>		Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No
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					Patent Application No	2019 1103 1670					
					Year of Patent Application	2019					
									<b>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</b>		
									25700		

<b>Principal Innovator</b>				
Name	Type	Gender	Email	Contact
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<b>Co-Innovator</b>				
Name	Type	Gender	Email	Contact
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Abhinav Chopra	Student	Male	abhinav.chopra.15cse@bml.edu.in	9953918594

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Satyendr Singh	Faculty	Male	satyendr.singh@bmu.edu.in	8307206275																										
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Satyendr Singh	Faculty	Male	satyendr.singh@bmu.edu.in	8307206275																										
HEALTH MONITORING SYSTEM	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	IP / Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No																				
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AUTOMATIC HYBRID POWER GENERATION SYSTEM	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Student	2019	IP / Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No																				
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<b>Principal Innovator</b>				
Name	Type	Gender	Email	Contact
Goldie Gabrani	Faculty	Female	goldie.gabrani@bmu.edu.in	9899937147

  

<b>Co-Innovator</b>				
Name	Type	Gender	Email	Contact
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Karan Setia	Student	Male	karan.setia.16cse@bml.edu.in	9462303038

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Nukavarapu lalita		Student		Male		nukavarapu.lalita.16cse@bml.edu.in		8570984199																																																																				
Harsimrat Singh Kohli		Student		Male		harsimrat.singh.16cse@bml.edu.in		9569550001																																																																				
Dipansh Giridhar		Student		Male		dipansh.girdhar.16cse@bml.edu.in		8901241662																																																																				
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					Applied for Patent						Yes
					Patent Application No						2019 1103 3749
					Year of Patent Application					25700	
<b>Principal Innovator</b>											
			Name		Type		Gender		Email		Contact
			Rajiv Dey		Faculty		Male		rajiv.dey@bmu.edu.in		7000149311
<b>Co-Innovator</b>											
			Name		Type		Gender		Email		Contact
			Dhruv Aditya Mittal		Student		Male		dhruv.aditya.16cse@bml.edu.in		9467947085
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<b>Co-Innovator</b>				
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Kapeta Harsha Vardhan Reddy	Student	Male	kapeta.harsha.16csc@bml.edu.in	7082241888
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Bhanu Krishna Motamarri	Student	Male	motamarri.bhanu.16mec@bml.edu.in	8295037278
Bodla Sai Preetam	Student	Male	santhosh.bodla.16cse@bml.edu.in	9247846354

IRRIGATION SYSTEM AND ITS METHOD THEREOF	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	IP / Patented Technology		Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes		No	No
					Applied for Patent	Yes			Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	25700		
					Patent Application No	2019 1103 3755						
					Year of Patent Application	2019						

<b>Principal Innovator</b>				
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<b>Co-Innovator</b>				
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**Principal Innovator**

Name	Type	Gender	Email	Contact
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**Co-Innovator**

Name	Type	Gender	Email	Contact
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Name		Type		Gender		Email		Contact		
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Name		Type		Gender		Email		Contact		
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AIR CONDITIONING EQUIPMENT Design Registration	IPR Cell	TRL 2 : Technology formulation. Concept and application have been formulated.	Student	2019	<table border="1"> <thead> <tr> <th colspan="2">IP / Patented Technology</th> </tr> </thead> <tbody> <tr> <td>Applied for Patent</td> <td>Yes</td> </tr> <tr> <td>Patent Application No</td> <td>321110-001</td> </tr> <tr> <td>Year of Patent Application</td> <td>2019</td> </tr> </tbody> </table>	IP / Patented Technology		Applied for Patent	Yes	Patent Application No	321110-001	Year of Patent Application	2019	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<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>25700</td> <td></td> </tr> </tbody> </table>	Yes	No	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)		25700		No	No
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Name		Type		Gender		Email		Contact		
Subham Sourabh		Student		Male		subham.sourabh.16mec@bml.edu.in		7781981783		

  

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Health Assessment of Surface Grinding Machine for Industry 4.0 Applications	Siemens Centre of Excellence in Automation, Robotics and Mechatronics	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2019	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No	No														
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<b>Co-Innovator</b> <table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Anubhav Agrawal</td> <td>Faculty</td> <td>Male</td> <td>anubhav.agrawal@bmu.edu.in</td> <td>8570874317</td> </tr> <tr> <td>Anubhav Agrawal</td> <td>Faculty</td> <td>Male</td> <td>anubhav.agrawal@bmu.edu.in</td> <td>8570874317</td> </tr> </tbody> </table>										Name	Type	Gender	Email	Contact	Anubhav Agrawal	Faculty	Male	anubhav.agrawal@bmu.edu.in	8570874317	Anubhav Agrawal	Faculty	Male	anubhav.agrawal@bmu.edu.in	8570874317
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Retail Rivalry Developing a Hybrid Game of Retail Store Site Selection	Centre for Inclusive Innovation	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2019	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No	No														
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	<b>Principal Innovator</b>												
	Name			Type		Gender		Email		Contact			
	Dr. Rik Paul			Faculty		Male		rik.paul@bmu.edu.in		8008930077			
	<b>Co-Innovator</b>												
	Name			Type		Gender		Email		Contact			
	Dr. Vishal Talwar			Faculty		Male		vishal.talwar@bmu.edu.in		8800424411			
ISOE - An Intelligent System for Online Evaluation	High Performance Computing Cluster	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2019	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<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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200000													
	<b>Principal Innovator</b>												
	Name			Type		Gender		Email		Contact			
	Dr. Ratna Sanyal			Faculty		Female		ratna.sanyal@bmu.edu.in		8295986623			
	<b>Co-Innovator</b>												
	Name			Type		Gender		Email		Contact			
	Atul Mishra			Faculty		Male		atul.mishra@bmu.edu.in		9971263488			

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Molecular Dynamics Simulation of Heterogeneous Crystal Nucleation	Centre for Advanced Material & Devices (CAMD)	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2019	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No	No									
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Assessment of mechanical and structural properties of high-performance polymer blends for automotive, structural and transmission applications	Centre for Advanced Material & Devices (CAMD)	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2019	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No	No									
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Stress Detection and Monitoring based on Electrodermal Activity	High Performance Computing Cluster	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2019	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<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>700000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	700000	No	No																														
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Low Dimensional Functional Materials for Energy Storage Applications	Centre for Advanced Material & Devices (CAMD)	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2019	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No	No	
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								500000			
								<b>Principal Innovator</b>			
			<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
			Dr. Abhimanyu Singh Rana		Faculty		Male		abhimanyu.rana@bmu.edu.in		9837752718
<b>Co-Innovator</b>											
			<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
			Dr. Amiya Dash		Faculty		Male		amiya.dash@bmu.edu.in		9439231211

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

**No Data Filled!**

### Co-Incubation Partnership

**No Data Filled!**

### Technology Commercialization / Transfer

Name of Technology Licenced / Transferred / Commercialized	Technology Type	Type of Transfer	Patent / Licence Number	Patent / Licence Holder	Centre / Department of Origin of Licence	Licence Transferred to	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Total Annual Income Received from Technology Transfer/Licensing (In Rupees)
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## Technology Commercialization / Transfer

Enhancing Life and Reducing Wear and Tear of CAM Chain Pins	Non-IP/Non-Patented Technology	One-time transfer/Licensing	NA	Patent/Licence Holder name (Institute Co-ownership is Must)	BML Munjal University	CAMD	Licence Transferred to	Industry	Yes	1740000
				Contact number of license holder	98737752718		Name of Industry/Start-up/Agency Received License/Technology	Rockman Industries		
				Email of Licence holder	abhimanyu.rana@bmu.edu.in		Address of Agency	503 5th Floor D4 Saket District Center Saket Delhi		
				Gender	Male		Contact Number of Agency	43270701		
				Email of Agency	corporate@rockman.in					

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