

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

Institute Name: UNIVERSITY OF ENGINEERING AND MANAGEMENT, KOLKATA [ARI-U-0823]

### 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	Computer Science	Academic Department with lab facility	Computer Science	UG / PG / PhD	Technical	2700	135	5
2	ECE	Academic Department with lab facility	Electronics	UG / PG / PhD	Technical	1040	52	2
3	EE	Academic Department with lab facility	Electrical	UG / PG / PhD	Technical	220	11	2
4	Mechanical Engineering	Academic Department with lab facility	Mechanical	UG / PG / PhD	Technical	220	11	2
5	CE	Academic Department with lab facility	Civil	UG / PG / PhD	Technical	200	10	2
6	BT	Academic Department with lab facility	Biotech	UG / PG / PhD	Technical	160	8	1
7	MCA	Academic Department with lab facility	Computer Applications	UG / PG / PhD	Technical	101	9	2
8	MBA	Academic Department with lab facility	Management	UG / PG / PhD	Technical	84	9	2

### 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 : IC201811433
Trained Innovation Ambassadors at HEI	YES	Not Required
Participation in Smart India Hackathon (SIH)	Yes	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	Yes	Not Required

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

Participation in National Education Alliance of Technology (NEAT)	No	Not Required
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### 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	Orientation Session on National Education Policy (with a focus on Innovation and entrepreneurship)	Innovation	Mentoring Session	Institute Lead Activity	IIC	11-07-2019 00:00:00	11-07-2019 00:00:00	1	Within Campus	1023	52	0	0	1075	No	No
2	Panel Discussion on Atmanirbhar Bharat-Vocal for Local, Make In India for the world	Entrepreneurship/Startup	Awareness	Institute Lead Activity	IIC	02-08-2019 00:00:00	02-08-2019 00:00:00	1	Within Campus	1023	43	0	0	1066	No	No
3	Pitching workshop and linkage of innovators with Innovation Ambassadors	Innovation	Awareness	Institute Lead Activity	IIC	04-09-2019 00:00:00	04-09-2019 00:00:00	1	Within Campus	1023	34	0	0	1057	No	No
4	My Story - Motivational Session by Successful Innovators	Entrepreneurship/Startup	Awareness	Institute Lead Activity	IIC	16-08-2019 00:00:00	16-08-2019 00:00:00	1	Within Campus	1023	60	0	0	1083	No	No
5	Session on Problem Solving and Ideation Workshop	Innovation	Ideation	Institute Lead Activity	IIC	18-07-2019 00:00:00	18-07-2019 00:00:00	1	Within Campus	1043	20	0	0	1063	No	No

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

6	My Story - Motivational Session by Successful Entrepreneur/Startup founder.	Entrepreneurship/Startup	Awareness	Institute Lead Activity	IIC	30-08-2019 00:00:00	30-08-2019 00:00:00	1	Within Campus	1043	20	0	0	1063	No	No
7	Workshop on Entrepreneurship and Innovation as Career Opportunity	Entrepreneurship/Startup	Awareness	Institute Lead Activity	IIC	26-07-2019 00:00:00	26-07-2019 00:00:00	1	Within Campus	1023	30	0	0	1053	No	No
8	Leadership Talk on How to think as an Entrepreneur	Entrepreneurship/Startup	Mentoring Session	Institute Lead Activity	IIC	21-06-2019 00:00:00	21-06-2019 00:00:00	1	Within Campus	1023	10	0	0	1033	No	No
9	Mentoring Session on Patent Filing	Innovation	Mentoring Session	Institute Lead Activity	IIC	09-08-2019 00:00:00	09-08-2019 00:00:00	1	Within Campus	1023	15	0	0	1038	No	No
10	IKS Orientation Session	Entrepreneurship/Startup	Orientation Session	Institute Lead Activity	IIC	11-10-2019 00:00:00	11-10-2019 00:00:00	1	Within Campus	1023	10	0	0	1033	No	No
11	KAPILA: Kalam Program for IP Literacy and Awareness	Innovation	Awareness	Institute Lead Activity	MIC	21-11-2019 00:00:00	21-11-2019 00:00:00	1	Within Campus	1023	20	0	0	1043	No	No
12	Orientation Session on National Innovation and Startup Policy (NISIP)	Entrepreneurship/Startup	Orientation Session	Institute Lead Activity	IIC	20-12-2019 00:00:00	20-12-2019 00:00:00	1	Within Campus	1023	20	0	0	1043	No	No

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

13	Panel Discussion on Legal Structure and Benefits of startup/entrepreneurship in India	Entrepreneurship/Startup	Mentoring Session	Institute Lead Activity	IIC	23-12-2019 00:00:00	23-12-2019 00:00:00	1	Within Campus	1023	20	0	0	1043	No	No			
14	BIOSPECTRUM	Innovation	Conference	Institute Lead Activity	BT	08-08-2019 00:00:00	10-08-2019 00:00:00	3	Within Campus	80	6	150	50	286	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	201524	Award / Position / Recognition Secured	Best Paper	
																	Title of Innovation / Start-up Secured the Award / Recognition	Studies on Efficacy of the Bioactive Compounds from Zingiber officinale as Potent Antibiofilm Agent over Azithromycin Against Pharyngeal Infection causing Bacteria.	
																		Award/Recognition/Achievement Received for	
15	UEM Green	Innovation	Conference	Institute Lead Activity	Research Department	25-09-2019 00:00:00	27-09-2019 00:00:00	3	Within Campus	200	150	40	15	405	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	100000	Award / Position / Recognition Secured	Best paper	
																		Title of Innovation / Start-up Secured the Award / Recognition	Capsicum annum and Foeniculum vulgare as models to elucidate hydroponics as an emerging alternative to conventional cultivation methods
																		Award/Recognition/Achievement Received for	

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

16	UEM COS	Innovation	Conference	Institute Lead Activity	Research Department	25-04-2019 00:00:00	27-04-2019 00:00:00	3	Within Campus	200	100	40	15	355	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	50000	No
17	HR Congress , Impact of Emerging Technologies on Employment	Entrepreneurship/Startup	Conference	Institute Lead Activity	UEM, Kolkata	21-09-2019 00:00:00	22-09-2019 00:00:00	2	Within Campus	50	50	53	45	198	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	1154283	No
18	UEMCON	Innovation	Conference	Institute Lead Activity	UEM, Kolkata	10-10-2019 00:00:00	12-10-2019 00:00:00	3	Outside Campus	20	20	40	30	110	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3308392	No
19	UEMMUN	Innovation	Conference	Institute Lead Activity	BSH	14-03-2020 00:00:00	15-03-2020 00:00:00	2	Within Campus	200	20	200	10	430	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	731514	No

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

Srno	Name of Program (Full Name)	Program Theme	Program Type	Organizin g Agency / Institute Name	Organizin g Agency Type	Program Start Date	Program End Date	Program Duration(i n Days)	Participa nts (Students )	Participa nts (Faculty)	Total Number of Participa nts	Awards/R ecognitio ns/Achiev ements	Award / Position / Recogniti on Secured	Title of Innovatio n / Start-up Secured the Award / Recogniti on	Had institute spent expenses either from own resource/ received fund towards sending delegation to participate / represent the activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research	
1	West Bengal State Science Congress	Innovatio n	Exhibition	MAKAUT	Govt. Agency (State)	23-12-20 19 00:00:00	24-12-20 19 00:00:00	2	20	1	21	Yes	Recogniti on	Intelligent Helmet	<div>TotalTotal Expense Amount Incurred by Institute? (In Rupees)</div> <div>1514370</div>	<div>Award / Position / Recognition Secured</div>	Recognition
																<div>Title of Innovation / Start-up Secured the Award / Recognition</div>	Intelligent Helmet
																<div>Award/Recog nition/Achieve ment Received for</div>	Idea/Innova tion/Prototy pe

**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**

2	IME2019	Innovation	Exhibition	IME	International Agencies	06-11-2019 00:00:00	09-11-2019 00:00:00	4	12	3	15	No	---	---	TotalTotal Expense Amount Incurred by Institute? (In Rupees)	916148	No		
3	SIH	Innovation	Innovation Contest	SIH	Govt. Agency (Central)	14-03-2020 00:00:00	14-03-2020 00:00:00	1	9	3	12	Yes	Finalist	ECOVERY	TotalTotal Expense Amount Incurred by Institute? (In Rupees)	618314	Award / Position / Recognition Secured	Finalist	
																	Title of Innovation / Start-up Secured the Award / Recognition	ECOVERY	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
4	Science and Technology Congress	Innovation	Exhibition	DST,BT	Govt. Agency (State)	28-02-2020 00:00:00	29-02-2020 00:00:00	2	6	1	7	Yes	Recognition	Smart Garbage disposal System	TotalTotal Expense Amount Incurred by Institute? (In Rupees)	252627	Award / Position / Recognition Secured	Recognition	
																	Title of Innovation / Start-up Secured the Award / Recognition	Smart Garbage disposal System	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	

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

Srno	Title of Course/Subject Offered	Program Theme	Type of Course	Course Offering Department/Centre/Unit Name	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)
1	Design Thinking	Entrepreneurship/Startup, Innovation	Full time Program	Bachelor	Basic Science and Humanities	03-08-2020	23-12-2020	143	Online	1023	40
2	National Entrepreneurship Network	Entrepreneurship/Startup	Full time Program	Bachelor	Basic Science and Humanities	03-08-2020	23-12-2020	143	Online	1023	30
3	Economics Finance and Entrepreneurship skill	Entrepreneurship/Startup	Full time Program	Bachelor	Basic Science and Humanities	03-08-2020	23-12-2020	143	Online	1023	40

**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)**

Srno	Title of the Training Program	Program Theme	Type of Course	Course Offering Department/Centre/ Unit Name	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	FDP on Skill development	Innovation	FDP in I&E / IPR	IIC	01-04-2020	30-07-2020	121	Online	250	40
2	Entrepreneurship	Entrepreneurship/Startup, Innovation	Employment Generation Training Programs	IIC	04-05-2020	15-07-2020	73	Online	255	30
3	FDP Entrepreneurship	Entrepreneurship/Startup	Employment Generation Training Programs	IIC	03-08-2020	03-09-2020	32	Online	171	30

**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)**

Smo	Faculty Name	Department/Centre/Unit Name		Designation		Do you have a degree in I&E & IPR?		Had the faculty received training on I&E & IPR during AY 2019-20	
1	Anirban Das	CS		Professor		Yes		No	
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IIC Innovation Ambassador	IPR	FDP in I&E, IPR	AICTE	Govt. Agency (Central)	04-03-2020 00:00:00	05-03-2020 00:00:00	2	Offline
2	Sankhadip Roy	BSH		Associate Professor		Yes		No	
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IIC Innovation Ambassador	Innovation	FDP in I&E, IPR	AICTE	Govt. Agency (Central)	04-03-2020 00:00:00	05-03-2020 00:00:00	2	Offline
3	Sukanya Roy	CS		Assistant Professor		Yes		No	
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IIC Innovation Ambassador	Entrepreneurship/Startup	FDP in I&E, IPR	AICTE	Govt. Agency (Central)	04-03-2020 00:00:00	05-03-2020 00:00:00	2	Offline
4	Arpan Maiti	BSH		Associate Professor		Yes		No	
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Entrepreneurship Essentials	Entrepreneurship/Startup	FDP in I&E, IPR	Harvard Business School	International Agencies	10-02-2021 00:00:00	05-03-2021 00:00:00	24	Online
5	Ria Roychowdhury	BSH		Assistant Professor		Yes		No	

	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Foundational Course in Entrepreneurship		Entrepreneurship/Startup	FDP in I&E, IPR	Wadhvani foundation	Non-Govt. Agencies	11-09-2020 00:00:00	11-12-2020 00:00:00	92	Online
	IP Innovation and Entrepreneurship		Entrepreneurship/Startup	FDP in I&E, IPR	IEM	Non-Govt. Agencies	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online
6	Subrata Chattopadhyay		MBA		Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	BMC and Start up funding for early stage		Entrepreneurship/Startup	FDP in I&E, IPR	Coursera	International Agencies	19-08-2020 00:00:00	19-09-2020 00:00:00	32	Online
	New Product Development for small business start ups		Entrepreneurship/Startup	FDP in I&E, IPR	Coursera	International Agencies	19-08-2020 00:00:00	19-09-2020 00:00:00	32	Online
7	Ankana Ghosh Dastidar		BSH		Assistant Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IP Innovation and Entrepreneurship		Entrepreneurship/Startup	FDP in I&E, IPR	IEM	Non-Govt. Agencies	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online
8	Aparajita Roy		BSH		Assistant Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IP Innovation and Entrepreneurship		Entrepreneurship/Startup, Innovation	FDP in I&E, IPR	IEM	Educational Institute	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online
9	Ayanita Banerjee		BSH		Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IP Innovation and Entrepreneurship		Entrepreneurship/Startup, Innovation	FDP in I&E, IPR	IEM	Educational Institute	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online
10	Monamie Chaudhuri		BSH		Assistant Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IP Innovation and entrepreneurship		Entrepreneurship/Startup, Innovation	FDP in I&E, IPR	IEM	Educational Institute	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online
11	Kriti Sarkar		BSH		Assistant Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IP Innovation and Entrepreneurship		Entrepreneurship/Startup, Innovation	FDP in I&E, IPR	IEM	Educational Institute	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online
12	Mitali Sengupta		MBA		Associate Professor		Yes		No	



	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IP Innovation and Entrepreneurship		Entrepreneurship/Startup	FDP in I&E, IPR	IEM	Educational Institute	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online
13	Joysri Datta		MBA		Assistant Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IP Innovation and Entrepreneurship		Entrepreneurship/Startup, Innovation	FDP in I&E, IPR	IEM	Educational Institute	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online
14	Arijit Sarkar		General Studies		Assistant Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
15	Devjyoti Das		General Studies		Assistant Professor		Yes		No	
	Training Name		Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	IP Innovation and Entrepreneurship		Entrepreneurship/Startup, Innovation	FDP in I&E, IPR	IEM	Educational Institute	27-08-2020 00:00:00	30-09-2020 00:00:00	35	Online

**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	IEEE Antennas and Propagation Society (APS)	Innovation Club	2019	Co-working Space,3D Printing	Innovation Labs	4	Ankita Singh	ankitasingh.ecedept@gmail.com	9064698109
2	IEEE Communications Society (ComSoc)	Innovation Club	2018	Co-working Space,3D Printing	Innovation Labs	3	Shubhadeep Dey	deyshuvodeep1999@gmail.com	9007487132
3	UEMK Student Branch of Computer Society of India	Innovation Club	2017	Co-working Space,3D Printing	Innovation Labs	4	Gourav Chakraborty	iamgourav66@gmail.com	9474654009
4	UEM KOLKATA ACM STUDENT CHAPTER	Innovation Club	2019	Co-working Space	Innovation Labs	6	Souvik Nandi	souviknandi.uemk@gmail.com	9007487133
5	IEEE Student Branch	Innovation Club	2018	Co-working Space,3D Printing	Innovation Labs	4	Souvik Nandi	souviknandi@ieee.org	9007487133
6	IEI Students Chapter	Innovation Club	2018	Co-working Space,3D Printing	Innovation Labs	4	Riya Biswas	biswasriya06@gmail.com	9831369551
7	INDIAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS(ISHRAE)	Innovation Club	2018	Co-working Space,3D Printing	Innovation Labs	3	JOTIRMOY MAJUMDER	SARGOCHRISTI@GMAIL.COM	9831711285
8	SOCIETY OF AUTOMOTIVE ENGINEERS	Innovation Club	2018	Co-working Space,3D Printing	Innovation Labs	6	ALOK KUMAR DUBEY	alok9719@gmail.com	9831161879

9	UEM KOLKATA ACM STUDENT CHAPTER	Innovation Club	2019	Co-working Space,3D Printing	Innovation Labs	5	Gourav Chakraborty	iamgourav66@gmail.com	9830126671
10	IEEE Student Branch	Innovation Club	2018	Co-working Space,Work Stations	Innovation Labs	4	Souvik Nandi	souviknandi@ieee.org	9831359551
11	IETE student Chapter	Innovation Club	2019	Co-working Space,3D Printing	Innovation Labs	4	Rishit Chakraborty	rishit.chakraborty1101@gmail.com	9003486132

**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	IIC UEMK	Innovation Centre	2018	Co-working Space,3D Printing & Prototype Equipment, Work Stations	Innovation Labs,IPR Cell/Technology Transfer Centre,Student Clubs	Innovation Labs,IPR Cell/Technology Transfer Centre,Student Clubs	Facility Incharge Name	Rajiv Ganguly	20	Yes	No	Yes
							Facility Incharge Email	shreemoyee.ganguly@uem.edu.in				
							Facility Incharge Phone	9007487132				
Source of Grant / Fund						Agency Name			Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)	
Institute's Own Fund / Resource						UEM			Educational Institute		12115750	

**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?					
1	UEM CoE	2020	Innovation Labs		<table><tr><td>Facility Incharge Name</td><td>Anirban Das</td></tr><tr><td>Facility Incharge Email</td><td>anirban.das@uem.edu.in</td></tr><tr><td>Facility Incharge Phone</td><td>9064698109</td></tr></table>	Facility Incharge Name	Anirban Das	Facility Incharge Email	anirban.das@uem.edu.in	Facility Incharge Phone	9064698109	10	Yes	No	No
Facility Incharge Name	Anirban Das														
Facility Incharge Email	anirban.das@uem.edu.in														
Facility Incharge Phone	9064698109														

**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	Incubation Lab	2018	Pre-Incubation, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	Grant In Aid	<div>Facility Incharge Name</div> Sankh adip Roy	<div>Facility Incharge Email</div> sankh dip.roy @uem .edu.in	<div>Facility Incharge Phone</div> 94746 54009	9	Yes	No	No

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

Srno	Name of Innovation Park/Research Park Facility	Year of Establishment	Innovation Park / Research Park with Access to Other I & E Facilities at the HEI	Name of the Funding Schemes Available with Research/Innovation Park, if any (Optional)	Facility Details		Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Research Park/Innovation Park 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 Research Park/Innovation Park?	Had the Research Park/Innovation Park Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?					
1	Innovation Park, UEMK	2019	Incubation Unit,Innovation Labs,Centre of Excellence with Advance Tools,Student Clubs		<table><tr><td>Facility Incharge Name</td><td>Sankh adip Roy</td></tr><tr><td>Facility Incharge Email</td><td>sankh dip.roy@uem.edu.in</td></tr><tr><td>Facility Incharge Phone</td><td>09474 65400 9</td></tr></table>	Facility Incharge Name	Sankh adip Roy	Facility Incharge Email	sankh dip.roy@uem.edu.in	Facility Incharge Phone	09474 65400 9	9	Yes	No	No
Facility Incharge Name	Sankh adip Roy														
Facility Incharge Email	sankh dip.roy@uem.edu.in														
Facility Incharge Phone	09474 65400 9														

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

<b>No Data Filled!</b>
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**Section 3 > iii > a : Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups**

Srno	Name of the Faculty	Designation of the Faculty	Mentor Expert Area	Years of Experience in Mentorship (In Years)
1	Anirban Das	Professor	IPR Protection & Commercialization	14
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Design Thinking to project to patent		Within	
2	Sankhadip Roy	Associate Professor	Entrepreneurship/Startup Development	9

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

	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Entrepreneurship and Innovation		Within	
3	Sukanya Roy	Assistant Professor	Idea/Innovation Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Design, Prototyping		Within	

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

Srno	Name of the External Expert/Agency as Mentor	Mentor Expert Area	Type of Mentorship
1	Subhrangshu Sanyal	Idea/Innovation Development	Unstructured Mentorship
2	Subhabrata Ghosh	Entrepreneurship/Startup Development	Unstructured Mentorship

**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
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1	ELECTRIC TWO-WHEELER DELIVERY VEHICLE WITH SECURE DELIVERY BOX	Product Innovation	Technological	IIC	Student-Faculty	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	Agency Name	SIH	Yes	Grant Amount in Rs	8000	No	No
									Agency Type	Govt. Agency (Central)					
									Award / Position / Recognition Secured	Finalist					
Name						Type			Gender			Email		Contact	
Sabyasachi Ganguly						Student			Male			sabyasachi.uemk@gmail.com		9874287348	
2	LOW-COST PLASTIC COLLECTOR AND INSTANT MONEY RETURN MACHINE	Product Innovation	Technological	IIC	Student-Faculty	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 Completed	Agency Name	DS T	No	Grant Amount in Rs	8000	No	No
									Agency Type	Govt. Agency (Central)					
									Award / Position / Recognition Secured	NA					
Name						Type			Gender			Email		Contact	
Dr. Tanusree Roy						Faculty			Female			tanusree.roy@uem.edu.in		9476398068	

3	AUTOMATION & IOT BASED SMART GARDENING AND IRRIGATION SYSTEM FOR GROWING PLANTS	Process Innovation	Technol ogical	IIC	Stude nt	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No
	Name					Type			Gender		Email		Contact
Swetalina Bhuyan					Student			Female		swetalina.b@gmail.com		9064698108	

4	MICROCONTROLLER BASED DESIGN OF HOME CLEANING ROBOT	Process Innovation	Technol ogical	IIC	Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No
	Name					Type			Gender		Email		Contact
Piyali Mukherjee					Faculty			Female		piyali.mukherjee@uem.edu.in		9831238711	

5	SIMULATION BASED DESIGN OF HOME CLEANING ROBOT	Product Innovation	Technol ogical	IIC	Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No
	Name					Type			Gender		Email		Contact
Piyali Mukherjee					Faculty			Female		piyali.mukherjee@uem.edu.in		9831238711	

6	IOT BASED INDUSTRIAL SECURITY SYSTEM USING ARDUINO	Product Innovation	Technol ogical	IIC	Stude nt-Facul ty	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	<div>NameTypeGenderEmailContact</div>												
	Prakash Banerjee				Faculty and Student				Male		prakash.banerjee@uem.edu.in		

7	SMART STREET LIGHT USING ARDUINO	Product Innovation	Technol ogical	IIC	Stude nt-Facul ty	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	<div>NameTypeGenderEmailContact</div>												
	Sohom Chakraborty				Faculty				Male		soham.chakraborty@uem.edu.in		

8	A novel approach to realize business profit on the basis of linear dependency, exponential growth and moving average	Process Innovation	Technol ogical	IIC	Facul ty	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	<div>NameTypeGenderEmailContact</div>												
	Anirban Das				Faculty				Male		anirban.das@uem.edu.in		

9	Mango jelly with citrus peel extracted pectin – a novel natural product enhancing the total antioxidant value	Product Innovation	Technological	IIC	Faculty	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	<div>Grant Amount in Rs</div> 8000	No	No
	Name					Type			Gender		Email		Contact
	Sonali Paul					Faculty			Female		sonali.paul@uem.edu.in		9830497462
10	RYO, an intelligent rover to send stress signals in emergency through 360 degree single hemispheric surveillance	Product Innovation	Technological	IIC	Faculty	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	<div>Grant Amount in Rs</div> 8000	No	No
	Name					Type			Gender		Email		Contact
	Anirban Das					Faculty			Male		anirban.das@uem.edu.in		9064698109
11	VRTRA JABBERWOKY, an Intelligent hexa-copter to identify individuals through DNA and Tissue classification	Product Innovation	Technological	IIC	Faculty	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	<div>Grant Amount in Rs</div> 8000	No	No
	Name					Type			Gender		Email		Contact
	Anirban Das					Faculty			Male		anirban.das@uem.edu.in		9064698109



12	An MIOT based Technique to detect the Probability of Brain Cancer through Extraction, Isolation And PCR	Product Innovation	Technol ogical	IIC	Stude nt- Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No	
	Name					Type				Gender		Email		Contact
Anirban Das					Faculty				Male		anirban.das@uem.edu.in		9064698109	

13	A tri folded Intelligent System to pre-monitor and predict tsunami, flood and earthquake based disasters and guide safer directions prior to occurrence	Product Innovation	Technol ogical	IIC	Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No	
	Name					Type				Gender		Email		Contact
Anirban Das					Faculty				Male		anirban.das@uem.edu.in		9064698109	

14	A decentralized system to rescue victims from natural and manmade post disasters through DTN, Offline Route Builder and Tracker	Product Innovation	Technol ogical	IIC	Stude nt- Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No	
	Name					Type				Gender		Email		Contact
Anirban Das					Faculty				Male		anirban.das@uem.edu.in		9064698109	

15	AI Recruiter	Service Innovation	Technological		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 Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No																									
	<table><tr><th colspan="4">Name</th><th colspan="3">Type</th><th colspan="2">Gender</th><th colspan="2">Email</th><th>Contact</th></tr><tr><td colspan="4">AI Recruiter</td><td colspan="3">Student</td><td colspan="2">Male</td><td colspan="2">sagnik.lala@gmail.com</td><td colspan="2">8637317122</td></tr></table>													Name				Type			Gender		Email		Contact	AI Recruiter				Student			Male		sagnik.lala@gmail.com		8637317122	
	Name				Type			Gender		Email		Contact																										
AI Recruiter				Student			Male		sagnik.lala@gmail.com		8637317122																											
16	JARVIS: The Personal Windows Assistant	Product Innovation	Technological		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 Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No																									
	<table><tr><th colspan="4">Name</th><th colspan="3">Type</th><th colspan="2">Gender</th><th colspan="2">Email</th><th>Contact</th></tr><tr><td colspan="4">Aritro Chakraborty</td><td colspan="3">Student</td><td colspan="2">Male</td><td colspan="2">arित्रochakraborty29@gmail.com</td><td colspan="2">7044331339</td></tr></table>													Name				Type			Gender		Email		Contact	Aritro Chakraborty				Student			Male		arित्रochakraborty29@gmail.com		7044331339	
	Name				Type			Gender		Email		Contact																										
Aritro Chakraborty				Student			Male		arित्रochakraborty29@gmail.com		7044331339																											
17	Amun and Anan	Product Innovation	Technological		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 Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No																									
	<table><tr><th colspan="4">Name</th><th colspan="3">Type</th><th colspan="2">Gender</th><th colspan="2">Email</th><th>Contact</th></tr><tr><td colspan="4">Asmeeta Sircar</td><td colspan="3">Student</td><td colspan="2">Female</td><td colspan="2">asmeetasircar8@gmail.com</td><td colspan="2">7047277081</td></tr></table>													Name				Type			Gender		Email		Contact	Asmeeta Sircar				Student			Female		asmeetasircar8@gmail.com		7047277081	
	Name				Type			Gender		Email		Contact																										
Asmeeta Sircar				Student			Female		asmeetasircar8@gmail.com		7047277081																											

18	Delta_Re	Product Innovation	Technol o gical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	Name					Type			Gender		Email		Contact
	Asmeeta Sircar					Student			Female		asmeetasircar8@gmail.com		7047277081
19	Eradinizer	Product Innovation	Technol o gical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	Name					Type			Gender		Email		Contact
	Asmeeta Sircar					Student			Female		asmeetasircar8@gmail.com		7047277081
20	Steelelastic	Product Innovation	Technol o gical		Stude nt	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	Name					Type			Gender		Email		Contact
	Subhajit Chandra					Student			Male		subhajit.chandra@gmail.com		7687849948

21	Tristram Enigmatic	Product Innovation	Technological		Student	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	Name				Type			Gender		Email		Contact	
	Subhajit Chandra				Student			Male		subhajit.chandra@gmail.com		7687849948	
22	Shattered Star	Service Innovation	Non-Technological / Social / Community Innovation		Student	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	Name				Type			Gender		Email		Contact	
	Shomiparna Koley				Student			Female		shomiparnakoley62@gmail.com		9007927360	
23	Home Automation with Virtual Assistant	Product Innovation	Technological		Student	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	<div>Grant Amount in Rs</div> 8000	No	No
	Name				Type			Gender		Email		Contact	
	Rohit Prasan Mandal				Student			Male		mondalrahit20@gmail.com		8145669222	

24	Fantasy Land	Process Innovation	Technological		Student	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs8000		No	No
	Name					Type			Gender		Email			Contact
Shomiparna Koley					Student			Female		shomiparnakoley62@gmail.com			9007927360	

25	Star Dust	Process Innovation	Technological		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 Ongoing	No	No	Grant Amount in Rs8000		No	No
	Name					Type			Gender		Email			Contact
Shomiparna Koley					Student			Female		shomiparnakoley62@gmail.com			9007927360	

26	Thunder Hound	Product Innovation	Technological		Student	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs8000		No	No
	Name					Type			Gender		Email			Contact
Abhinav					Student			Male		abhinav33303@gmail.com			8434928102	

27	Andromeda	Product Innovation	Technol oical		Stude nt	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	TRL 4 : Small scale protot ype built in a labor atory enviro nment ("ugly " protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No
Name		Type			Gender		Email			Contact			
Nivedita Chatterjee		Student			Female		nivedita.chattejee2000@gmail.com			9836455551			

28	Door Lock	Product Innovation	Technol oical		Stude nt	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No
Name		Type			Gender		Email			Contact			
Akash Roy		Student			Male		akash.roy20@gmail.com			8240033826			

29	Elix1r prime	Product Innovation	Technol oical		Stude nt	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No
Name		Type			Gender		Email			Contact			
Nivedita Chatterjee		Student			Female		nivedita.chatterjee2000@gmail.com			9836455551			

30	Harnessing The Power Of Lightening	Process Innovation	Technol ological		Stude nt	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>8000</div>	No	No
Name		Type			Gender		Email			Contact			
Abhishek Dutta		Student			Male		abhishek.dutta24@gmail.com			8617002929			

31	Efficacy of green synthesized zinc oxide nanoparticles against dental biofilm: Formulating a smart mouthwash	Product Innovation	Technol ological		Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>105000</div>	No	No
Name		Type			Gender		Email			Contact			
Moupriya Nag		Faculty			Female		moupriya.nag@uem.edu.in			8981427981			
Name		Type			Gender		Email			Contact			
Dibyajit lahiri		Faculty			Male		dibyajit.lahiri@uem.edu.in			8017259210			

32	Biopesticide for the biocontrol of brinjal shoot and fruit borer pest	Product Innovation	Technol ological		Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>150000</div>	No	No
Name		Type			Gender		Email			Contact			
Pratik Talukder		Faculty			Male		pratik.talukder@uem.edu.in			9433377397			

33	Investigation on machinability of Graphene Reinforced Al Alloys under Cryogenic and MQCL condition	Product Innovation	Technol ological		Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>100000</div>	No	No
Name		Type		Gender		Email		Contact					
Goutam Paul		Faculty		Male		gautam.paul@uem.edu.in		9123905213					

34	To develop and analyze the potential fertilizer formulation for reduced arsenic uptake by plants	Product Innovation	Technol ological		Facul ty	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	TRL 4 : Small scale protot ype built in a labor atory envir onme nt ("ugly protot ype).	Innovati on Develop ment Ongoing	No	No	<div>Grant Amount in Rs</div> <div>80000</div>	No	No
Name		Type		Gender		Email		Contact					
Susmita Mukherjee		Faculty		Female		susmita.mukherjee@uem.edu.in		9830534215					
Name		Type		Gender		Email		Contact					
Sonali Paul		Faculty		Female		sonali.paul@uem.edu.in		9830497462					



35	Design and implementation of equivalent electrical gene model for genetic disease diagnosis	Process Innovation	Technological		Faculty	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	Agency Name	Department of Science and Technology	No	No	No	No	
						Agency Type	Govt. Agency (Central)								
						Award / Position / Recognition Secured	Award								
Name					Type				Gender			Email			Contact
Tanusree Roy					Faculty				Female			tanusree.roy@uem.edu.in			9476398768
Name					Type				Gender			Email			Contact
Pranabesh Bhattacharjee					Student				Male			pranabesh.dream@gmail.com			8334800446

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

**No Data Filled!**

#### 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	MSME	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation,Mentoring,Seed fund	55	21-01-2020
2	European Union	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	10	01-10-2019
3	DST	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Seed fund	12	11-06-2019

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

**No Data Filled!**

**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	RYO, an intelligent rover to send stress signals in emergency through 360 degree single hemispheric surveillance	201931043975	National	2019 - 10	NA
2	VRTRA JABBERWOKY, an Intelligent hexa-copter to identify individuals through DNA and Tissue classification	201931043976	National	2019 - 10	Uploaded
3	An MIOT based Technique to detect the Probability of Brain Cancer through Extraction, Isolation And PCR	201931043977	National	2019 - 10	Uploaded
4	A tri folded Intelligent System to pre-monitor and predict tsunami, flood and earthquake based disasters and guide safer directions prior to occurrence	201931043978	National	2019 - 10	Uploaded
5	A decentralized system to rescue victims from natural and manmade post disasters through DTN, Offline Route Builder and Tracker	201911043980	National	2019 - 10	Uploaded
6	A Novel Composition of Multifunctional (antimicrobial, digestive, natural food life enhancer) Low Cost Herbal Food Additive	201931044618	National	2019 - 11	Uploaded
7	A novel approach to realize business profit on the basis of linear dependency, exponential growth and moving average	201911019831	National	2019 - 05	Uploaded

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

Srno	Title/Name of IP	Type of IP	IP Registration Number	Current Status of IP as on 31st March 2020	Copy of IP screenshot
1	Mango jelly with citrus peel extracted pectin – a novel natural product enhancing the total antioxidant value	PatentsHoldByInnovations	201931036822	Published	Uploaded
	Applicant Name		Applicant Type	Start-up/Innovator Name	
	Dr. Sonali Paul,Dr. Susmita Mukherjee		Incubatee Innovator	Dr. Sonali Paul,Dr. Susmi	

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

**No Data Filled!**

**List the patent Published & Granted to HEI**

**No Data Filled!**

## Declaration

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

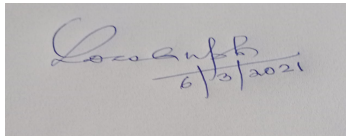
### Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Prof. Sajal Dasgupta (Head of Institute) and Dr. Shreemoyee Ganguly (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



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Prof. Sajal Dasgupta  
Head of the Institution,  
Kolkata, West Bengal

Nodal officer



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Dr. Shreemoyee Ganguly  
Nodal Officer,  
Kolkata, West Bengal

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