



# ARIIA

## ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MoE**  
Ministry of Education  
Government of India

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

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

### 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	School of Basic Sciences	Academic Department with lab facility	interdisciplinary research in areas of Physics, Chemistry, Mathematics and Biosciences	UG / PG / PhD	Technical	189	40	7
2	School of Earth, Ocean and Climate Sciences	Academic Department with lab facility	Earth, Ocean and Climate Sciences	UG / PG / PhD	Technical	111	14	1
3	School of Electrical Sciences	Academic Department with lab facility	Computer Science & Engineering, Electronics & Communication Engineering and Electrical Engineering	UG / PG / PhD	Technical	827	30	10
4	School of Humanities, Social Sciences and Management	Academic Department with lab facility	Economics, Planning, Language, Literature, Culture, Social Policy, Technological Development, Psychological Behaviors, Public and Private values	UG / PG / PhD	Non-Technical	14	10	1
5	School of Infrastructure	Academic Department with lab facility	Civil Engineering and Infrastructure	UG / PG / PhD	Technical	391	21	5
6	School of Mechanical Sciences	Academic Department with lab facility	Energy & Environment, Advanced Manufacturing, Autonomous Robotics, Product Design and Agricultural automation	UG / PG / PhD	Technical	447	20	7
7	School of Minerals, Metallurgical and Materials Engineering	Academic Department with lab facility	Minerals, Metallurgical and Materials Engineering	UG / PG / PhD	Technical	154	14	2
8	S K DASH CENTER OF EXCELLENCE OF BIOSCIENCES AND ENGINEERING AND TECHNOLOGY	Centre of Excellence with Advance Tools & Equipment	Bio-molecular and food technology	Not Allowed	Technical	0	1	1

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

9	Centre of Excellence for Novel Energy Materials (CENEMA)	Centre of Excellence with Advance Tools & Equipment	Advanced Energy Materials	Not Allowed	Technical	0	6	0
10	Virtual and Augmented Reality Center of Excellence (VARCoE)	Research Unit / Park	Virtual Reality and Augmented Reality	Not Allowed	Technical	0	0	1
11	Design Innovation Centre	Centre of Excellence with Advance Tools & Equipment	Multidisciplinary	Not Allowed	Technical	0	0	4
12	Entrepreneurship cell	Pre-incubation unit	Multidisciplinary	Not Allowed	Not Allowed	0	0	1
13	Research Park	Incubation Unit	Multidisciplinary	Not Allowed	Technical	0	4	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 : IC201810523
Trained Innovation Ambassadors at HEI	NO	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 in National Education Alliance of Technology (NEAT)	No	Not Required

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

Srno	Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration (in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?
1	From Young Innovators to Entrepreneurs	Entrepreneurship/Startup, Innovation	Workshop	Institute Lead Activity	Continuing Education Programme	20-11-2019 00:00:00	21-11-2019 00:00:00	2	Within Campus	0	0	30	30	60	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 222815	No
2	E-Summit-20	Entrepreneurship/Startup	B-Plan Competitions	Student Lead Activity	E-Cell	10-01-2020 00:00:00	12-01-2020 00:00:00	3	Within Campus	250	3	750	0	1003	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 700000	No

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

3	MAZE SOLVER	Innovation	Innovation Contest	Student Lead Activity	WISSEN AIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	70	0	70	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																Title of Innovation / Start-up Secured the Award / Recognition	MAZE SOLVER	
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
4	ROBO WARS	Innovation	Innovation Contest	Student Lead Activity	WISSEN AIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	120	0	120	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																Title of Innovation / Start-up Secured the Award / Recognition	ROBO WARS	
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
5	KICK OFF	Innovation	Innovation Contest	Student Lead Activity	WISSEN AIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	120	0	120	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																Title of Innovation / Start-up Secured the Award / Recognition	KICK OFF	
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	

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

6	DRONE CHALLENGE	Innovation	Innovation Contest	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	25	0	25	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																	Title of Innovation / Start-up Secured the Award / Recognition	DRONE CHALLENGE
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
7	TREKKON	Innovation	Innovation Contest	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	80	0	80	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																	Title of Innovation / Start-up Secured the Award / Recognition	TREKKON
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
8	COLLOQUIA-CS	Innovation	Innovation Contest	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	3	0	3	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																	Title of Innovation / Start-up Secured the Award / Recognition	COLLOQUIA-CS
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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

9	COLLOQUIA-ELECTRICAL	Innovation	Innovation Contest	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	14	0	14	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 10000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																Title of Innovation / Start-up Secured the Award / Recognition	COLLOQUIA-ELECTRICAL
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
10	COLLOQUIA-MECHANICAL	Innovation	Innovation Contest	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	12	0	12	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 10000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																Title of Innovation / Start-up Secured the Award / Recognition	COLLOQUIA-MECHANICAL
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
11	COLLOQUIA-CIVIL	Innovation	Innovation Contest	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	0	0	23	0	23	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 10000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICATE
																Title of Innovation / Start-up Secured the Award / Recognition	COLLOQUIA-CIVIL
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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

12	ELECTR ADE	Innovation	Innovation Contest	Student Lead Activity	WISSEN AIRE	01-02-20 20 00:00:00	01-02-20 20 00:00:00	1	Within Campus	2	0	2	0	4	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICA TE
																	Title of Innovation / Start-up Secured the Award / Recognition	ELECTRAD E
																	Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe
13	COUNTE R CYPHER	Innovation	Innovation Contest	Student Lead Activity	WISSEN AIRE	01-02-20 20 00:00:00	01-02-20 20 00:00:00	1	Within Campus	1	0	5	0	6	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICA TE
																	Title of Innovation / Start-up Secured the Award / Recognition	COUNTER CYPHER
																	Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe
14	CADED	Innovation	Innovation Contest	Student Lead Activity	WISSEN AIRE	01-02-20 20 00:00:00	01-02-20 20 00:00:00	1	Within Campus	0	0	8	0	8	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	Award / Position / Recognition Secured	PRIZE MONEY AND CERTIFICA TE
																	Title of Innovation / Start-up Secured the Award / Recognition	CADED
																	Award/Recog nition/Achieve ment Received for	Idea/Innova tion/Prototy pe

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

15	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	Innovation	Workshop	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	02-02-2020 00:00:00	2	Within Campus	1	0	112	0	113	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	Award / Position / Recognition Secured	CERTIFICATE	
																		Title of Innovation / Start-up Secured the Award / Recognition	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
																		Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
16	IOT WITH GOOGLE ASSISTANT	Innovation	Workshop	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	02-02-2020 00:00:00	2	Within Campus	0	0	65	0	65	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	Award / Position / Recognition Secured	CERTIFICATE	
																		Title of Innovation / Start-up Secured the Award / Recognition	IOT WITH GOOGLE ASSISTANT
																		Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
17	SOCIAL MEDIA MARKETING AND SEO	Innovation	Workshop	Student Lead Activity	WISSENAIRE	01-02-2020 00:00:00	02-02-2020 00:00:00	2	Within Campus	0	0	19	0	19	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	Award / Position / Recognition Secured	CERTIFICATE	
																		Title of Innovation / Start-up Secured the Award / Recognition	SOCIAL MEDIA MARKETING AND SEO
																		Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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

18	HEXAPOD	Innovation	Workshop	Student Lead Activity	WISSEN AIRE	01-02-2020 00:00:00	02-02-2020 00:00:00	2	Within Campus	2	0	42	0	44	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	Award / Position / Recognition Secured	CERTIFICATE	
																	Title of Innovation / Start-up Secured the Award / Recognition	HEXAPOD	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
19	WEB UI DESIGN WEBINAR	Innovation	Seminar	Student Lead Activity	WEB AND DESIGN SOCIETY	01-02-2020 00:00:00	02-02-2020 00:00:00	2	Within Campus	71	0	35	0	106	No	No			
20	Let's Build	Innovation	Skill development	Institute Lead Activity	Design Innovation Centre	11-07-2019 00:00:00	08-08-2019 00:00:00	29	Outside Campus	0	1	150	4	155	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	Award / Position / Recognition Secured	Certificate	
																	Title of Innovation / Start-up Secured the Award / Recognition	Lets Build	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
21	WISSEN AIRE	Innovation	B-Plan Competitions	Institute Lead Activity	Design Innovation Centre	31-01-2020 00:00:00	01-02-2020 00:00:00	2	Within Campus	300	10	0	0	310	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	No		
22	Open Day	Innovation	Exhibition	Institute Lead Activity	Design Innovation Centre	12-02-2020 00:00:00	12-02-2020 00:00:00	1	Within Campus	150	3	7000	250	7403	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	400000	No		



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

23	Workshop and hackathon on AR/VR	Innovation	Workshop	Institute Lead Activity	VARCOE	10-01-2020 00:00:00	12-01-2020 00:00:00	3	Within Campus	0	0	52	4	56	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	624940	Award / Position / Recognition Secured	Prize Money and Certificate
																	Title of Innovation / Start-up Secured the Award / Recognition	Workshop and hackathon on AR VR
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

**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	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 activity /event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research		
1	DIC Meet	Innovation	Exhibition	SPA, New Delhi	Educational Institute	26-11-2019 00:00:00	27-11-2019 00:00:00	2	0	5	5	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	75000	No	
2	BIITM FEST	Entrepreneurship/Startup	B-Plan Competitions	Biju patnaik college	Educational Institute	25-01-2020 00:00:00	25-01-2020 00:00:00	1	30	0	30	No	---	---	No	No		
3	Inter IIT Tech Meet	Innovation	Innovation Contest	IIT Roorkee	Educational Institute	20-12-2019 00:00:00	22-12-2019 00:00:00	3	5	0	5	Yes	2nd Position	Boschs Route Optimization Algorithm	Total Expense Amount Incurred by Institute? (In Rupees)	18368	Award / Position / Recognition Secured	2nd Position
																	Title of Innovation / Start-up Secured the Award / Recognition	Boschs Route Optimization Algorithm
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

**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**

4	Inter IIT Tech Meet	Innovation	Ideation	IIT Roorkee	Educational Institute	20-12-2019 00:00:00	22-12-2019 00:00:00	3	5	0	5	Yes	3rd Position	BARC Outreach exercise for new Technology ideas in TV Audience Measurement	Total 28717	Award / Position / Recognition Secured	3rd Position	Title of Innovation / Start-up Secured the Award / Recognition	BARC Outreach exercise for new Technology ideas in TV Audience Measurement	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
5	Inter IIT Tech Meet	Innovation	Innovation Contest	IIT Roorkee	Educational Institute	20-12-2019 00:00:00	22-12-2019 00:00:00	3	4	0	4	Yes	1st Position	Ashokas tech for change	Total 20983.50	Award / Position / Recognition Secured	1st Position	Title of Innovation / Start-up Secured the Award / Recognition	Ashokas tech for change	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
6	Inter IIT Tech Meet	Innovation	Hackathon	IIT Roorkee	Educational Institute	20-12-2019 00:00:00	22-12-2019 00:00:00	3	3	0	3	Yes	2nd Position	Coding Hackathon	Total 14786.90	Award / Position / Recognition Secured	2nd Position	Title of Innovation / Start-up Secured the Award / Recognition	Coding Hackathon	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

**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**

7	Google Hash Code 2020	Innovation	Innovation Contest	Google	Non-Govt. Agencies	20-02-2020 00:00:00	31-03-2020 00:00:00	41	4	0	4	Yes	National rank 7th and International rank 244th	Google Hash Code 2020	No	Award / Position / Recognition Secured		National rank 7th and International rank 244th		
																Title of Innovation / Start-up Secured the Award / Recognition		Google Hash Code 2020		
																Award/Recognition/Achievement Received for		Idea/Innovation/Prototype		
8	Inter IIT Tech Meet	Innovation	Ideation	IIT Roorkee	Educational Institute	20-12-2019 00:00:00	22-12-2019 00:00:00	3	2	0	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)		13020	No		
9	Inter IIT Tech Meet	Innovation	Ideation	IIT Roorkee	Educational Institute	20-12-2019 00:00:00	22-12-2019 00:00:00	3	4	0	4	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)		28886	No		
10	Inter IIT Tech Meet	Innovation	Ideation	IIT Roorkee	Educational Institute	20-12-2019 00:00:00	22-12-2019 00:00:00	3	5	0	5	Yes	3rd Position	Payatus Infosec Challenge	Total Total Expense Amount Incurred by Institute? (In Rupees)		28858	Award / Position / Recognition Secured		3rd Position
															Title of Innovation / Start-up Secured the Award / Recognition		Payatus Infosec Challenge	Award/Recognition/Achievement Received for		Idea/Innovation/Prototype
11	Inter IIT Tech Meet	Innovation	Ideation	IIT Roorkee	Educational Institute	20-12-2019 00:00:00	22-12-2019 00:00:00	3	2	0	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)		28886	No		

**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)
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1	Operations management	Entrepreneurship/Startup	Elective/Core Credit Course	Master	School of Mechanical Sciences	01-07-2019	30-11-2019	153	Offline	22	35
2	Robotics and Automation	Innovation	Full time Program	Bachelor	School of Mechanical Sciences	01-01-2020	30-04-2020	121	Offline	50	42
3	Automobile Component Design	Innovation	Full time Program	Diploma	Skill Development	01-07-2019	30-11-2019	153	Offline	20	42
4	Image and Video Processing	Innovation	Full time Program	Diploma	Electronics and Telecommunication	01-07-2019	30-11-2019	153	Offline	20	42

**Section 2 > ii : List the Employment Generation Skill Development Programs Organized by the HEI on Innovation, IPR and Entrepreneurship Development During the Academic Period (2019-20)**

**No Data Filled!**

**Section 2 > iii : List the Full Time Faculties had with a Degree (UG/PG/PhD) in Innovation/IPR/Entrepreneurship and (or) Received Specialized Training program of I&E, IPR (MDP, EDP, FDP, Short-term Certificate Course, of minimum 30 hours Duration) conducted by various State, Central Govt. agencies, and Knowledge Agencies in the Academic Period (2019-20)**

Srno	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	Dr. Satya Narayan Panigrahi	Intellectual Property Rights IPRs- IIT Bhubaneswar	Associate Professor (PIC-IPR)	No	No
2	Dr. Satya Narayan Panigrahi	Design Innovation Centre	Associate Professor (PIC-DIC)	No	No
3	Dr. Mihir Kumar Pandit	Design Innovation Centre	Associate Professor (PIC-DIC)	No	No
4	Dr. Arun Kumar Pradhan	Design Innovation Centre	Associate Professor (PIC-DIC)	No	No

**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	ROBOTICS AND INTELLIGENT SYSTEMS CLUB	Innovation Club	2010	Co-working Space, Work Stations	Innovation Labs	5	HARIKESH VERMA	secyrobotics.sg@iitbbs.ac.in	8889212939

**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?
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**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)**

1	Technology Incubation center under E cell (Activities run through various Institute Labs on requirement basis)	Innovation Centre	2016	Co-working Space	Innovation Labs	Innovation Labs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Gaurav Bartarya</td> </tr> <tr> <td>Facility Incharge Email</td> <td>pic.ece11@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9450612482</td> </tr> </table>	Facility Incharge Name	Dr. Gaurav Bartarya	Facility Incharge Email	pic.ece11@iitbbs.ac.in	Facility Incharge Phone	9450612482	0	No	No	No
Facility Incharge Name	Dr. Gaurav Bartarya																
Facility Incharge Email	pic.ece11@iitbbs.ac.in																
Facility Incharge Phone	9450612482																
2	Design Innovation Center (DIC) -MMME Satellite Center	Tinkering Lab	2019	Co-working Space,3D Printing & Prototype Equipment	Innovation Labs	Innovation Labs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Parlapalli Venkata Satyam (Head of School of SMMM E)</td> </tr> <tr> <td>Facility Incharge Email</td> <td>hos.smmme@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>06747136903</td> </tr> </table>	Facility Incharge Name	Prof. Parlapalli Venkata Satyam (Head of School of SMMM E)	Facility Incharge Email	hos.smmme@iitbbs.ac.in	Facility Incharge Phone	06747136903	2	Yes	No	Yes
Facility Incharge Name	Prof. Parlapalli Venkata Satyam (Head of School of SMMM E)																
Facility Incharge Email	hos.smmme@iitbbs.ac.in																
Facility Incharge Phone	06747136903																
				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		MOE		Govt. Agency (Central)		150000							
3	AR/VR Satellite Center -Process Modelling and Simulation Lab	Innovation Centre	2019	Work Stations	Innovation Labs	Innovation Labs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Parlapalli Venkata Satyam (Head of School of SMMM E)</td> </tr> <tr> <td>Facility Incharge Email</td> <td>hos.smmme@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>06747136903</td> </tr> </table>	Facility Incharge Name	Prof. Parlapalli Venkata Satyam (Head of School of SMMM E)	Facility Incharge Email	hos.smmme@iitbbs.ac.in	Facility Incharge Phone	06747136903	3	Yes	No	Yes
Facility Incharge Name	Prof. Parlapalli Venkata Satyam (Head of School of SMMM E)																
Facility Incharge Email	hos.smmme@iitbbs.ac.in																
Facility Incharge Phone	06747136903																

**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)**

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		IIT Bhubaneswar		Govt. Agency (Central)		100000.00					
4	AIM Lab	Tinkering Lab	2014	Co-working Space, Work Stations	Incubation Unit	Incubation Unit	0	Yes	No	Yes	
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		IIT Bhubaneswar		Govt. Agency (Central)		0					
Facility Incharge Name		Dr. V. Pandu Ranga		Facility Incharge Email		pandu@iitbbs.ac.in		Facility Incharge Phone		06747137122	
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		IIT Bhubaneswar		Govt. Agency (Central)		0					
5	M&M Lab	Tinkering Lab	2009	Co-working Space	Incubation Unit	Incubation Unit	0	Yes	No	Yes	
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		IIT Bhubaneswar		Govt. Agency (Central)		0					
Facility Incharge Name		Dr. B. P. Ramai ah		Facility Incharge Email		pattabhi@iitbbs.ac.in		Facility Incharge Phone		06747137124	
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		IIT Bhubaneswar		Govt. Agency (Central)		0					
6	AM Lab	Tinkering Lab	2009	Co-working Space, 3D Printing & Prototype Equipment	Incubation Unit	Incubation Unit	0	Yes	No	Yes	
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		IIT Bhubaneswar		Govt. Agency (Central)		0					
Facility Incharge Name		Dr. S. Mullick		Facility Incharge Email		suvradip@iitbbs.ac.in		Facility Incharge Phone		06747137142	

**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)**

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		IIT Bhubaneswar		Govt. Agency (Central)		0	

7	MTM lab	Maker's Space	2009	Co-working Space	Incubation Unit	Incubation Unit	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. V. Pandu Ranga</td> </tr> <tr> <td>Facility Incharge Email</td> <td>pandu@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>06747137122</td> </tr> </table>	Facility Incharge Name	Dr. V. Pandu Ranga	Facility Incharge Email	pandu@iitbbs.ac.in	Facility Incharge Phone	06747137122	0	Yes	No	Yes
Facility Incharge Name	Dr. V. Pandu Ranga																
Facility Incharge Email	pandu@iitbbs.ac.in																
Facility Incharge Phone	06747137122																

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		IIT Bhubaneswar		Govt. Agency (Central)		0	

**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	S K Dash Centre of Excellence of BioSciences and Engineering and Technology (SKBET)	2014	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Saroj Nayak</td> </tr> <tr> <td>Facility Incharge Email</td> <td>nayaks@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>916747135140</td> </tr> </table>	Facility Incharge Name	Prof. Saroj Nayak	Facility Incharge Email	nayaks@iitbbs.ac.in	Facility Incharge Phone	916747135140	3	No	No	Yes
Facility Incharge Name	Prof. Saroj Nayak														
Facility Incharge Email	nayaks@iitbbs.ac.in														
Facility Incharge Phone	916747135140														

Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)	
Funding Agency		Dr. Dash Foundation		International Agencies		55000000	

**Section 3 > ii > b : List the Centre of Excellence (CoE) Facilities with Advance Tools and Equipment at the HEI (>= 1000 Sq. Ft. Floor Area)**

2	Center of Excellence for Novel Energy Materials (CENEMA)	2014	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof.S aroj Nayak</td> </tr> <tr> <td>Facility Incharge Email</td> <td>nayaks @iitbb s.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>91674 71351 40</td> </tr> </table>	Facility Incharge Name	Prof.S aroj Nayak	Facility Incharge Email	nayaks @iitbb s.ac.in	Facility Incharge Phone	91674 71351 40	7	No	No	Yes
Facility Incharge Name	Prof.S aroj Nayak														
Facility Incharge Email	nayaks @iitbb s.ac.in														
Facility Incharge Phone	91674 71351 40														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)								
Funding Agency		Ministry of Education			Govt. Agency (Central)		37500000								
3	Virtual and Augmented Reality centre of Excellence (VARCoE)	2019	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Prasan t Kum Sahu</td> </tr> <tr> <td>Facility Incharge Email</td> <td>pic.var coe@ii tbbs.ac .in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94371 40138</td> </tr> </table>	Facility Incharge Name	Dr. Prasan t Kum Sahu	Facility Incharge Email	pic.var coe@ii tbbs.ac .in	Facility Incharge Phone	94371 40138	1	Yes	No	Yes
Facility Incharge Name	Dr. Prasan t Kum Sahu														
Facility Incharge Email	pic.var coe@ii tbbs.ac .in														
Facility Incharge Phone	94371 40138														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)								
Funding Agency		Ms.Susmita Bagchi (ii) Govt of Odisha (iii)STPI			Govt. Agency (State)		75000000								
4	Design Innovation Centre	2014	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Satya Naraya n Panigr ahi</td> </tr> <tr> <td>Facility Incharge Email</td> <td>psatya n@iitb bs.ac.i n</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>95562 73389</td> </tr> </table>	Facility Incharge Name	Dr. Satya Naraya n Panigr ahi	Facility Incharge Email	psatya n@iitb bs.ac.i n	Facility Incharge Phone	95562 73389	4	No	No	No
Facility Incharge Name	Dr. Satya Naraya n Panigr ahi														
Facility Incharge Email	psatya n@iitb bs.ac.i n														
Facility Incharge Phone	95562 73389														

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

1	Startup centre up IIT Bhubaneswar	2016	Pre-Incubation, Innovation Labs, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	VARCOE Funding	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Sabari malai Manikandan</td> </tr> <tr> <td>Facility Incharge Email</td> <td>pic.startupcentre@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>78944 47889</td> </tr> </table>	Facility Incharge Name	Dr Sabari malai Manikandan	Facility Incharge Email	pic.startupcentre@iitbbs.ac.in	Facility Incharge Phone	78944 47889	1	Yes	No	Yes
Facility Incharge Name	Dr Sabari malai Manikandan														
Facility Incharge Email	pic.startupcentre@iitbbs.ac.in														
Facility Incharge Phone	78944 47889														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)								
Funding Agency		STPI, MSME Dept. Odisha, Mr. and Mrs. Subrato Bagchi			Govt. Agency (State)		75000000								

**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	IIT Bhubaneswar Research and Entrepreneurship Park	2017	Pre-Incubation, Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	VARCOE Funding	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Sabari malai Manikandan</td> </tr> <tr> <td>Facility Incharge Email</td> <td>pic.startupcentre@iitbbs.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>78944 47889</td> </tr> </table>	Facility Incharge Name	Dr Sabari malai Manikandan	Facility Incharge Email	pic.startupcentre@iitbbs.ac.in	Facility Incharge Phone	78944 47889	1	Yes	<table border="1"> <thead> <tr> <th colspan="2">Yes</th> </tr> </thead> <tbody> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>592167</td> </tr> </tbody> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	0	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	592167	Yes
Facility Incharge Name	Dr Sabari malai Manikandan																						
Facility Incharge Email	pic.startupcentre@iitbbs.ac.in																						
Facility Incharge Phone	78944 47889																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)	0																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0																						
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	592167																						
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)																
Funding Agency		STPI, MSME Dept. Odisha, Mr and Mrs Subrato Bagchi			Govt. Agency (State)		75000000																

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

No Data Filled!

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

No Data Filled!

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

No Data Filled!

**Section 4 : List all the Innovations Generated Developed, Completed and Implemented in Ground with Support of Pre-incubation & Incubation facilities at the HEI and Recognitions Received**

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation/ Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation/ Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Converted into Venture/Startup/SME Unit during the financial period 2019-20	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019
1	Electric Cycle	Reverse Engineering	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	No	No	No
				<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>	
				Devesh Ramteke		Student		Male		drt10@iitbbs.ac.in		7240946353	

Name	Type	Gender	Email	Contact
Kuldeep Baghel	Student	Male	kb22@iitbbs.ac.in	8959209084
Subesh chandra Sonthalia	Student	Male	scs11@iitbbs.ac.in	8058606214
Harikesh Verma	Student	Male	hu13@iitbbs.ac.in	8889212939

2	Design & Development of Snake Robot	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Bharadwaj Reddy	Student	Male	phr11@iitbbs.ac.in	7008436930

3	RC Vehicle	Process Innovation	Technological	Design Innovation Center	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Completed	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Sanjeet Patra	Student	Male	sp81@iitbbs.ac.in	8668401950

Name	Type	Gender	Email	Contact
Prateem Prakash Singh	Student	Male	pps15@iitbbs.ac.in	8175989819
Pranav Nedungadi V	Student	Male	npv12@iitbbs.ac.in	7735994049
Ghag Omkar Arvind	Student	Male	goa11@iitbbs.ac.in	9082740223
Divesh Digambar Shet	Student	Male	dds12@iitbbs.ac.in	8806481059

4	Designing 3 Phase Controller for BLDC	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Y K Surya	Student	Male	vks11@iitbbs.ac.in	9500730217

Name	Type	Gender	Email	Contact
Sri Abinesh Thinakaran	Student	Male	sat10@iitbbs.ac.in	6374157565
Guru Diwakar	Faculty	Male	rjd10@iitbbs.ac.in	6374157565

5	Portable Wireless ECG Machine	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Alan Sankar B	Student	Male	asb15@iitbbs.ac.in	9400011990

Name	Type	Gender	Email	Contact
Nithaj R	Student	Male	nr15@iitbbs.ac.in	8218838474

6	Carbide Robot	Product Innovation	Technological	Design Innovation Center	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Vikash Singh	Student	Male	vs30@iitbbs.ac.in	6397790434

Name	Type	Gender	Email	Contact
Rahul Raj Singh	Student	Male	rrs12@iitbbs.ac.in	7374097763
Ansh Mishra	Student	Male	am59@iitbbs.ac.in	8269939408
Bharat Mishra	Student	Male	bm28@iitbbs.ac.in	8824212762
Arpit Kesharwani	Student	Male	ak82@iitbbs.ac.in	7735903032

7	Sensor Based Car	Process Innovation	Technological	Design Innovation Center	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Tejraj Singh Hada	Student	Male	tsh12@iitbbs.ac.in	8302736368

Name	Type	Gender	Email	Contact
Nagsen B Waghmare	Student	Male	wnb10@iitbbs.ac.in	-
Sanskar Mishra	Student	Male	sm85@iitbbs.ac.in	-

8	Design of Alternative joints for Prosthesis	Process Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	No	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>			<b>Email</b>		<b>Contact</b>
T Siddharth					Student			Male			ts14@iitbbs.ac.in		9422007687
9	Telescope Positioning System	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>			<b>Email</b>		<b>Contact</b>
Advait Desmukh					Student			Male			daj10@iitbbs.ac.in		9657747551
<b>Name</b>					<b>Type</b>			<b>Gender</b>			<b>Email</b>		<b>Contact</b>
Kuldeep Baghel					Student			Male			kb22@iitbbs.ac.in		8959209084
10	Ultra Light remote controlled Plane	Process Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	No	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>			<b>Email</b>		<b>Contact</b>
Alapan Mondal					Student			Male			am45@iitbbs.ac.in		7076884901

11	Design & Development of mobile manipulator for space application	Process Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Rohan vailala Thoma	Student	Male	rt18@iitbbs.ac.in	7013313694

12	Polariser Spectacles	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	No	No	No
----	----------------------	--------------------	---------------	--------------------------	---------	--	---	--------------------------------	----	----	----	----	----

Name	Type	Gender	Email	Contact
Bhoomika R.S	Student	Female	brs14@iitbbs.ac.in	8277392246

13	Delta wing glider	Process Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Challa Sai	Student	Male	cs14@iitbbs.ac	8074563628

Name	Type	Gender	Email	Contact
P Raghuvendra Dheeraj	Student	Male	prd10@iitbbs.ac.in	83141727770
saif Ali Khan	Student	Male	sak10@iitbbs.ac.in	9588669633
Chanakya Ajit Ekbote	Student	Male	ca10@iitbbs.ac.in	9986659698

14	Development of Solar powered infrasonic sound generator	Process Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	No	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>
Shobhit Mishra					Student			Male		sm42@iitbbs.ac.in			9407295560
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>
Krushnarjuna Parida					Student			Male		kp25@iitbbs.ac.in			9348146546
15	Sign Language to Audio	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	No	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>
Krishna Modak					Student			Male		km20@iitbbs.ac.in			7064122001
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>
Ambarish Banarjee					Student			Male		akb14@iitbbs.ac.in			7042515573



16	Maze solver Robot	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No
Name		Type			Gender		Email		Contact				
Paryul Singhai		Student			Male		ps39@iitbbs.ac.in		7084680310				
Name		Type			Gender		Email		Contact				
Prajwal Kumar Sahu		Student			Male		pks29@iitbbs.ac.in		8249173880				
17	Vertical Wind Energy Generator	Process Innovation	Technological	Design Innovation Center	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No
Name		Type			Gender		Email		Contact				
Sankar Sevak Soren		Student			Male		sss19@iitbbs.ac.in		8584925836				
18	Maze Solver Bot	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	No	No	No	No

Name	Type	Gender	Email	Contact
Kushagra Gupta	Student	Male	kg16@iitbbs.ac.in	8249213475

Name	Type	Gender	Email	Contact
Vikas Singh	Student	Male	vs30@iitbbs.ac.in	6397790434
Arpit Keshawani	Student	Male	ak82@iitbbs.ac.in	7735903032

19	Arduino Bot	Product Innovation	Technological	Design Innovation Center	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Sushant Kumar	Student	Male	sk91@iitbbs.ac.in	9113376209

20	Water Droplet Illusion	Process Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Completed	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Dharmendra Patel	Student	Male	dcp12@iitbbs.ac.in	7021121094

Name	Type	Gender	Email	Contact
Nihar Ranjan Sahoo	Student	Male	nrs12@iitbbs.ac.in	7008532419

21	Ultrasonic Navigator	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	No	No	No
					<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
					Vinay Kumar Soni		Student		Male		vks16@iitbbs.ac.in		8319563101
					<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
					Sakshi Kanoje		Student		Male		sk82@iitbbs.ac.in		8982833560
22	Speed Motion Sensing Led Light	Reverse Engineering	Technological	Design Innovation Center	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	No	No	No
					<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
					Krishna Dutta Tripathi		Student		Male		kdt13@iitbbs.ac.in		8707405385
					<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
					-		Student		Male		slk12@iitbbs.ac.in		6281682590
					Sarang Mehrotra		Student		Male		sm84@iitbbs.ac.in		9315118771

23	Development of a Quadcopter	Reverse Engineering	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	No	No	No
					<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
					Ayush Raj Arya		Student		Male		ara10@iitbbs.ac.in		7008442623
					<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
					Shashank Seth		Student		Male		ss115@iitbbs.ac.in		9873777648
					Dev Kunwar Singh Chauhan		Student		Male		dkc10@iitbbs.ac.in		7065901423
24	Modelling and stimulation of Li-Ion Batteries	Reverse Engineering	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	No	No	No
					<b>Name</b>		<b>Type</b>		<b>Gender</b>		<b>Email</b>		<b>Contact</b>
					P Rama Sai		Student		Male		ps22@iitbbs.ac.in		9178440349
25	Pneumatic Load Sharing Mechanism	Process Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Ongoing	No	No	No	No	No

Name	Type	Gender	Email	Contact
Challa Sai	Student	Male	cs14@iitbbs.ac.in	8074563628

Name	Type	Gender	Email	Contact
P Raghuvendra Dheeraj	Student	Male	prd10@iitbbs.ac.in	7780703770

26	Electric Skateboard	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Prateem Prakash Singh	Student	Male	pps15@iitbbs.ac.in	8175989819

Name	Type	Gender	Email	Contact
Divesh Shet	Student	Female	dds12@iitbbs.ac.in	8806481059
Nedungadi Pranav V	Student	Female	npv12@iitbbs.ac.in	9512184371
Hudson Samuel	Student	Female	ths12@iitbbs.ac.in	8138008986
Sanjeet Patra	Student	Female	sp81@iitbbs.ac.in	8668401950
Omakr A Ghag	Student	Female	goa11@iitbbs.ac.in	9082740223

27	Robotic Hand	Product Innovation	Technological	Design Innovation Center	Student	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	No	No	No	No
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Name	Type	Gender	Email	Contact
Mohammad Abdurrah	Student	Male	mar10@iitbbs.ac.in	9637533074

Name	Type	Gender	Email	Contact
K Harsha Vardhan Kumar	Student	Male	kvk12@iitbbs.ac.in	9515517959

28	Biped Robot	Product Innovation	Technological	Design Innovation Center	Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	No	No	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>
Mrudul Katla					Student			Male		km16@iitbbs.ac.in			9078814707
29	Learn -O- Little	Product Innovation	Technological		Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	No	No	No
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>
Neha Tuli					Student			Female		nehatuli1107@gmail.com			7888868524
<b>Name</b>					<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>
Gurwinder Singh					Student			Male		-			9565030181

30	AR with IoT	Product Innovation	Technological		Student	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	No	No	No
Name		Type			Gender		Email			Contact			
Rahul Talukdar		Student			Male		pic.varcoe@iitbbs.ac.in			9565030181			
31	Smart home automation	Product Innovation	Technological	Technology Incubation centre	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No
Name		Type			Gender		Email			Contact			
Dr. Bharathram Ramkumar		Faculty			Male		barathram@iitbbs.ac.in			6747135710			
Name		Type			Gender		Email			Contact			
Dr. Srinivas Bhaskar Karanki		Faculty			Male		skaranki@iitbbs.ac.in			06747135746			
Dr. M. Sabarimalai Manikandan		Faculty			Male		msm@iitbbs.ac.in			06747135726			
32	IoT enabled power quality monitoring devices	Product Innovation	Technological	Technology Incubation centre	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No

Name		Type		Gender		Email		Contact					
Dr Srinivas B. Karanki		Faculty		Male		skaranki@iitbbs.ac.in		6747135746					
Name		Type		Gender		Email		Contact					
Dr. Bharathram Ramkumar		Faculty		Male		barathram@iitbbs.ac.in		06747135710					
Dr. M. Sabarimalai Manikandan		Faculty		Male		msm@iitbbs.ac.in		06747135726					
33	Smart Sensing and Monitoring Devices	Product Innovation	Technological	Technology Incubation centre	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	No	No	No	No	No
Name		Type		Gender		Email		Contact					
Dr. M. Sabarimalai Manikandan		Faculty		Male		msm@iitbbs.ac.in		6747135726					
Name		Type		Gender		Email		Contact					
Dr. Bharathram Ramkumar		Faculty		Male		barathram@iitbbs.ac.in		6747135710					
Dr. Srinivas Bhaskar Karanki		Faculty		Male		skaranki@iitbbs.ac.in		6747135746					
34	Improvised Multichamber Biodigester for Converting Vegetable Waste and Food Waste to Biogas	Process Innovation	Technological	Technology Incubation centre	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 2 : Technology formulation. Concept and application have been formulated.	Innovation Development Ongoing	No	No	No	No	No
Name		Type		Gender		Email		Contact					
Dr. P.Rath		Faculty		Male		prath@iitbbs.ac.in		9437419774					

**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	Startup Odisha	Govt. Agency (State)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation,Incubation,Mentoring,Networking,Investment,Seed fund	9	03-12-2020
2	Central Tool room and Training Centre (CTTC)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation,Incubation,Mentoring	2	29-01-2019

**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	Water assisted underwater direct laser welding method and processing set-up	201931022198	National	2019 - 06	Uploaded
2	Light weight and low cost tube cross section for improved thermal performance of two phase heat exchanger	201931039188	National	2019 - 09	Uploaded
3	Methodology to Develop An Elliptical Rod from Circular Rod using Two and Half Axis CNC machine	202031003800	National	2020 - 01	Uploaded
4	Miller Indices Generator in Virtual Environment	202031011728	National	2020 - 03	Uploaded

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

**No Data Filled!**

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

**No Data Filled!**

## Declaration

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

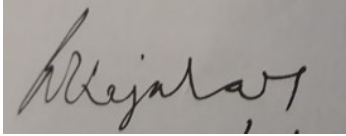
### Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Prof. R. V. Rajakumar (Head of Institute) and Mr. Bibhuti Bhusan Sahoo (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

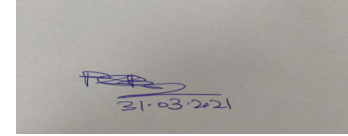
The Head of Institute



---

Prof. R. V. Rajakumar  
Head of the Institution,  
Bhubaneswar, Odisha

Nodal officer



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Mr. Bibhuti Bhusan Sahoo  
Nodal Officer,  
Bhubaneswar, Odisha