



# ARIIA

## ATL 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: Bhilai Institute of Technology [ARI-C-16658]

### 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	Electronics Engineering	Research Unit / Park	Communication	UG / PG / PhD	Technical	360	19	12
2	Computer Science Engineering	Research Unit / Park	Computer Science	UG / PG / PhD	Technical	390	25	6
3	Electrical Electronics Engineering	Academic Department with lab facility	Electrical Electronics	UG / PG / PhD	Technical	188	11	6
4	Business Administration	Research Unit / Park	Management	UG / PG / PhD	Non-Technical	229	17	2
5	Computer Applications	Research Unit / Park	Software	UG / PG / PhD	Technical	102	6	2
6	Mechanical Engineering	Research Unit / Park	Mechanical	UG / PG / PhD	Technical	409	27	16
7	Information Technology	Academic Department with lab facility	Information Technology	UG / PG / PhD	Technical	185	12	2
8	Civil Engineering	Research Unit / Park	Civil	UG / PG / PhD	Technical	333	18	8
9	Electrical Engineering	Research Unit / Park	Electrical	UG / PG / PhD	Technical	328	18	9
10	Incubation Centre Approved by MSME New Delhi Govt. of India	Incubation Unit	Multidisciplinary	UG / PG / PhD	Technical	37	10	2
11	Applied Chemistry	Research Unit / Park	Science	UG / PG / PhD	Technical	13	5	2
12	Applied Physics	Research Unit / Park	Science	UG / PG / PhD	Technical	1	6	1
13	Applied Maths	Research Unit / Park	Mathematics	UG / PG / PhD	Technical	3	10	1

### 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 : IC202014267
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 of HEI in Innovation & Entrepreneurship Initiatives of Ministry of Education (Till Today)

Participation in National Education Alliance of Technology (NEAT)	Yes	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	Futuristic Trends in Electrical and Electronics Engineering for National Development	Innovation	Conference	Institute Lead Activity	Department of Electrical and Electronics Engineering	03-06-2019 00:00:00	04-06-2019 00:00:00	2	Within Campus	24	7	9	11	51	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 7281	No
2	What after Engineering	Innovation	Seminar	Institute Lead Activity	IEEE Student Branch, BIT, Durg	24-03-2020 00:00:00	24-03-2020 00:00:00	1	Within Campus	35	4	18	0	57	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 4800	No
3	Industrial Automation-PLC & SCADA	Entrepreneurship/Startup	Workshop	Institute Lead Activity	IEEE Student Branch, BIT - Durg	18-01-2020 00:00:00	19-01-2020 00:00:00	2	Within Campus	45	5	10	1	61	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 23000	No
4	Workshop on "Deep Learning and Neural Networks"	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Department of Information Technology, BIT Durg in collaboration with SkillIT Nation and IIT Roorkee	30-09-2019 00:00:00	01-10-2019 00:00:00	2	Within Campus	74	0	4	0	78	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 11000	No
5	Workshop on "Cyber Disease"	Entrepreneurship/Startup	Workshop	Institute Lead Activity	IEEE Computer Society, Department of Information Technology, BIT Durg	08-02-2020 00:00:00	09-02-2020 00:00:00	2	Within Campus	52	0	0	0	52	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 7200	No

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

6	Technologies that make a difference	Innovation	Seminar	Institute Lead Activity	IEEE Computer Society, Department of Information Technology, BIT Durg	08-03-2020 00:00:00	08-03-2020 00:00:00	1	Within Campus	94	0	0	0	94	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4700	No
7	Industry 4.0	Innovation	Workshop	Student Lead Activity	Department of Computer Science and Engineering	01-07-2019 00:00:00	14-07-2019 00:00:00	14	Within Campus	34	4	8	0	46	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	9500	No
8	Cloud Computing on AWS platform	Innovation	Workshop	Student Lead Activity	Department of Computer Science and Engineering	26-09-2019 00:00:00	28-09-2019 00:00:00	3	Within Campus	59	2	0	0	61	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	7600	No
9	Spectrum Insights Of Machine Learning Paradigms	Innovation	Training	Institute Lead Activity	Department of Computer Science and Engineering	11-11-2019 00:00:00	23-11-2019 00:00:00	13	Within Campus	0	8	0	32	40	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	470000	No
10	Workshop on Micro, Small and Medium Enterprise-Startups	Entrepreneurship/Startup	Workshop	Student Lead Activity	Entrepreneurship Development Cell, BIT Durg in association with District Industry Centre(DIC)-Durg	04-01-2020 00:00:00	04-01-2020 00:00:00	1	Within Campus	200	8	400	16	624	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4300	No
11	Intellectual Property Right	IPR	Seminar	Institute Lead Activity	Department of Computer Applications	29-02-2020 00:00:00	29-02-2020 00:00:00	1	Within Campus	20	25	24	40	109	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4400	No
12	Workshop on setting of new industries	Entrepreneurship/Startup	Workshop	Student Lead Activity	Entrepreneurship Development Cell, BIT Durg in association with District Industry Centre(DIC)-Durg	14-10-2019 00:00:00	14-10-2019 00:00:00	1	Within Campus	200	8	400	16	624	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3700	No

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

13	Idea Pitching Competition	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Incubation Centre, BIT, Durg	21-01-2020 00:00:00	21-01-2020 00:00:00	1	Within Campus	37	3	0	7	47	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5100	Award / Position / Recognition Secured	Five Teams selected	
																	Title of Innovation / Start-up Secured the Award / Recognition	Participate in New India Startup	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
14	Entrepreneurship Awareness Camp	Entrepreneurship/Startup	Awareness	Student Lead Activity	Entrepreneurship Development Cell, BIT, Durg	14-11-2019 00:00:00	16-11-2019 00:00:00	3	Within Campus	92	8	0	0	100	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	No		
15	Entrepreneurship Awareness Camp	Entrepreneurship/Startup	Awareness	Student Lead Activity	Entrepreneurship Development Cell, BIT, Durg	21-01-2020 00:00:00	23-01-2020 00:00:00	3	Within Campus	100	8	0	0	108	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	No		
16	Entrepreneurship Awareness and Career Development	Entrepreneurship/Startup	Workshop	Student Lead Activity	Department of Management	12-08-2019 00:00:00	12-08-2019 00:00:00	1	Within Campus	100	6	0	0	106	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	2800	No		
17	Business Reform Action Plan	Entrepreneurship/Startup	Workshop	Student Lead Activity	Entrepreneurship Development Cell	29-08-2019 00:00:00	29-08-2019 00:00:00	1	Within Campus	250	0	0	0	250	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3200	No		
18	Promote Start-up	Entrepreneurship/Startup	Workshop	Student Lead Activity	Entrepreneurship Development Cell, BIT DURG in association with District Industries Centre(DIC)-DURG	14-10-2019 00:00:00	14-10-2019 00:00:00	1	Within Campus	29	10	0	0	39	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3200	No		

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

19	Promote Start-up	Entrepreneurship/Startup	Seminar	Student Lead Activity	Incubation Centre, BIT DURG in association with District Industries Centre(DIC)-DURG	04-03-2020 00:00:00	04-03-2020 00:00:00	1	Within Campus	32	4	0	0	36	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4300	No
20	Energy Efficiency & Energy Conservation	Innovation	Workshop	Institute Lead Activity	Department of Civil Engineering	28-01-2020 00:00:00	28-01-2020 00:00:00	1	Within Campus	0	27	0	10	37	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	11073	No
21	Workshop on eSim Pandit Madan Mohan Malviya National Mission on Teachers and Teaching	Innovation	Workshop	Institute Lead Activity	Department Electronics and Telecommunication Engineering	21-09-2019 00:00:00	21-09-2019 00:00:00	1	Within Campus	0	12	0	8	20	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000	No
22	Business Opportunities	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Department of Management	30-06-2019 00:00:00	30-06-2019 00:00:00	1	Within Campus	30	2	150	0	182	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3400	No
23	Energy Conservation and Energy Efficiency for Small and Medium Enterprises	Innovation	Workshop	Institute Lead Activity	Department of Management	07-03-2020 00:00:00	07-03-2020 00:00:00	1	Within Campus	20	2	75	0	97	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4150	No
24	MSME Startups	Entrepreneurship/Startup	Workshop	Student Lead Activity	Department of Management	04-01-2020 00:00:00	04-01-2020 00:00:00	1	Within Campus	200	8	400	16	624	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3780	No
25	Workshop on Setting of New Industries	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Department of Management	14-10-2019 00:00:00	14-10-2019 00:00:00	1	Within Campus	200	8	400	16	624	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4150	No

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

26	Business Reform Action Plan	Entrepreneurship/Startup	Workshop	Student Lead Activity	Department of Management	29-04-2019 00:00:00	29-04-2019 00:00:00	1	Within Campus	250	0	0	0	250	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4800	No						
27	Hackathon - Software & Hardware	Innovation	Hackathon	Institute Lead Activity	Department of Computer Science Engineering	04-02-2020 00:00:00	05-02-2020 00:00:00	2	Within Campus	32	0	8	0	40	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4800	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Winner</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Clamp on flow Metering</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Winner	Title of Innovation / Start-up Secured the Award / Recognition	Clamp on flow Metering	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Winner																						
Title of Innovation / Start-up Secured the Award / Recognition	Clamp on flow Metering																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
28	Vikram Sarabhai Centenary Program in association with ISRO and Chhattisgarh Council of Science and Technology	Innovation	Exhibition	Institute Lead Activity	Bhilai Institute of Technology Durg	19-12-2019 00:00:00	20-12-2019 00:00:00	2	Within Campus	2800	179	4700	560	8239	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	100000	No						

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29	9th International Science Congress	Innovation	Conference	Institute Lead Activity	Bhilai Institute of Technology, Durg in association with International Science Community Association	08-12-2019 00:00:00	09-12-2019 00:00:00	2	Within Campus	0	25	0	175	200	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	30000	Award / Position / Recognition Secured	International Young Scientist for Best Oral Presentation	
																	Title of Innovation / Start-up Secured the Award / Recognition	Assessment of Indoor and Outdoor background gamma radiation levels and related radiological health hazards in Bemetra District of Chhattisgarh State, India	
																	Award/Recognition/Achievement Received for	Novel Research Paper/Work	
30	HULT PRIZE - Social Entrepreneurship Competition	Entrepreneurship/Start-up	Start-up Yatra	Student Lead Activity	Bhilai Institute of Technology . DURG in association with Hult International Business School and the United Nations Foundation.	18-09-2019 00:00:00	19-09-2019 00:00:00	2	Within Campus	132	6	72	2	212	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	Award / Position / Recognition Secured	Winner presented the proposal at Vietnam HULT prize - Next Level	
																	Title of Innovation / Start-up Secured the Award / Recognition	Green Technology	
																	Award/Recognition/Achievement Received for	Business Model/Start up	
31	Head Start-Startup Saturday	Entrepreneurship/Start-up	Start-up Yatra	Student Lead Activity	Technohub Club	27-07-2019 00:00:00	27-07-2019 00:00:00	1	Within Campus	32	2	16	0	50	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3000	Award / Position / Recognition Secured	Winner - Cash Prize of Rs 5000	
																	Title of Innovation / Start-up Secured the Award / Recognition	Annapurna	
																	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	Data Sciences and Artificial Intelligence	Innovation	Workshop	Indian Institute of Technology Bhilai	Educational Institute	02-07-2019 00:00:00	04-07-2019 00:00:00	3	0	3	3	No	---	---	No	No	
2	Ethical Hacking Workshop	Entrepreneurship/Start-up	Workshop	Kyron Technologies Pvt. Ltd. and Visvesvaraya National Institute of Technology Nagpur	Non-Govt. Agencies	22-02-2020 00:00:00	23-02-2020 00:00:00	2	1	0	1	No	---	---	No	No	
3	Cyber Security and Blockchain Technologies	Innovation	Workshop	International Institute of Information Technology, Naya Raipur and ICT academy of PDPM IITDM Jabalpur	Educational Institute	04-12-2019 00:00:00	08-12-2019 00:00:00	5	0	2	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	1500	No
4	Data Science and its Application	Innovation	Workshop	National Institute of Technology, Raipur	Educational Institute	09-12-2019 00:00:00	13-12-2019 00:00:00	5	0	3	3	No	---	---	No	No	
5	Workshop on Arduino	Innovation	Workshop	Indian Institute of Technology, Bombay	Educational Institute	08-02-2020 00:00:00	14-02-2020 00:00:00	7	0	1	1	No	---	---	No	No	
6	Introduction to Data Science	Entrepreneurship/Start-up	Training	Guntur Engineering College, Guntur	Educational Institute	15-03-2020 00:00:00	18-03-2020 00:00:00	4	0	1	1	No	---	---	No	No	
7	Internet of Things and Aerial Mesh Network	Entrepreneurship/Start-up	Workshop	Indian Institute of Technology Allahabad	Educational Institute	19-12-2019 00:00:00	20-12-2019 00:00:00	2	0	1	1	No	---	---	No	No	



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8	Introduction to Blockchain Technology and Its Applications	Innovation	Workshop	Princeton University, New Jersey	Educational Institute	24-02-2020 00:00:00	31-03-2020 00:00:00	37	0	1	1	No	---	---	No	No		
9	Concept behind the Solar and Electric Vehicles	Entrepreneurship/Startup	Training	AMT MotoCorp, MP	Non-Govt. Agencies	11-09-2019 00:00:00	15-09-2019 00:00:00	5	2	0	2	No	---	---	No	No		
10	Budding Entrepreneur Program	Entrepreneurship/Startup	Workshop	IIM Bangalore Entrepreneurship and Innovation Summit Eximus	Non-Govt. Agencies	30-09-2019 00:00:00	01-10-2019 00:00:00	2	1	0	1	No	---	---	No	No		
11	Student Solar Ambassadors	Entrepreneurship/Startup	Workshop	Dept of Energy Science and Engineering, IIT Bombay	Govt. Agency (Central)	02-10-2019 00:00:00	02-10-2019 00:00:00	1	1	0	1	No	---	---	No	No		
12	Real World Applications of Microcontrollers	Innovation	Training	NITTTR, Chandigarh	Govt. Agency (Central)	15-06-2019 00:00:00	19-06-2019 00:00:00	5	0	1	1	No	---	---	No	No		
13	Artificial Neural Networks and Fuzzy Logic	Innovation	Training	NITTTR, Chandigarh	Govt. Agency (Central)	22-06-2019 00:00:00	26-06-2019 00:00:00	5	0	1	1	No	---	---	No	No		
14	Recent Trends in Renewable Energy and Sustainable Global Development	Innovation	Conference	Bhilai Institute of Technology, Raipur	Educational Institute	30-01-2020 00:00:00	31-01-2020 00:00:00	2	0	3	3	No	---	---	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>6000</td> </tr> </table>	Total Total Expense Amount Incurred by Institute? (In Rupees)	6000	No
Total Total Expense Amount Incurred by Institute? (In Rupees)	6000																	
15	Solar Study Lamp Assembly	Innovation	Awareness	Indian Institute of Technology Bombay	Educational Institute	01-05-2019 00:00:00	31-12-2019 00:00:00	24	0	2	2	No	---	---	No	No		

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16	Energy Systems and Information Processing	Innovation	Conference	Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai	Educational Institute	02-07-2019 00:00:00	09-07-2019 00:00:00	8	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	6000	No						
17	Innovations in Power, Energy and Intelligent Control Systems	Innovation	Conference	Vignans University Hyderabad	Educational Institute	08-08-2019 00:00:00	10-08-2019 00:00:00	3	0	1	1	No	---	---	No	No							
18	MHRD Smart India Hackathon 2020	Innovation	Hackathon	AICTE and Ministry of Human Resource Development Innovation Cell	Govt. Agency (Central)	08-07-2019 00:00:00	12-07-2019 00:00:00	5	3	0	3	Yes	Selected for Final Round	Criminal Navigation	Total Total Expense Amount Incurred by Institute? (In Rupees)	9000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Selected for Final Round</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Criminal Navigation</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Selected for Final Round	Title of Innovation / Start-up Secured the Award / Recognition	Criminal Navigation	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Selected for Final Round																						
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Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
19	Mood Indigo 2019	Innovation	B-Plan Competitions	Indian Institute of Technology Bombay	Educational Institute	26-12-2019 00:00:00	29-12-2019 00:00:00	4	4	0	4	No	---	---	No	No							
20	e-Yantra Robotics Competition	Innovation	B-Plan Competitions	Indian Institute of Technology Bombay	Educational Institute	25-10-2019 00:00:00	25-10-2019 00:00:00	1	30	0	30	Yes	Semifinalist	Robotics	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Semifinalist</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Robotics</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Semifinalist	Title of Innovation / Start-up Secured the Award / Recognition	Robotics	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
Award / Position / Recognition Secured	Semifinalist																						
Title of Innovation / Start-up Secured the Award / Recognition	Robotics																						
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21	Artificial Intelligence with Machine Learning	Innovation	Training	Kyriion Technologies Private Limited At Indian Institute of Technology Bhilai	Educational Institute	12-10-2019 00:00:00	13-10-2019 00:00:00	2	1	0	1	No	---	---	No	No			
22	Defect Function alization of 2D Stanene Nano structure FET as Gas Sensor Ab initio modelling	Innovation	Conference	Indian Institute of Science Education and Research Bhopal	Educational Institute	28-02-2020 00:00:00	29-02-2020 00:00:00	2	0	1	1	No	---	---	No	No			
23	A New Lightweight Authentication Protocol for IOT based Healthcare Monitoring System	Innovation	Conference	Chhattisgarh Swami Vivekanand Technical University Bhilai	Educational Institute	30-01-2020 00:00:00	31-01-2020 00:00:00	2	0	2	2	No	---	---	No	No			
24	Design and Analysis of Area and Power Optimized Sram Cell for High Speed Processor	Innovation	Conference	National Institute of Technology (NIT), Raipur	Educational Institute	04-01-2020 00:00:00	05-01-2020 00:00:00	2	1	0	1	No	---	---	No	No			
25	Women in Technology, Employment and Life Skill	Innovation	Workshop	National Institute of Technology Raipur	Govt. Agency (Central)	11-05-2019 00:00:00	15-05-2019 00:00:00	5	0	2	2	No	---	---	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>3000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)	3000	No
Total Total Expense Amount Incurred by Institute? (In Rupees)	3000																		
26	Carbon Capture and Store	Innovation	Workshop	National Institute of Technology Rourkela	Govt. Agency (Central)	15-07-2019 00:00:00	19-07-2019 00:00:00	5	0	1	1	No	---	---	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>2000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)	2000	No
Total Total Expense Amount Incurred by Institute? (In Rupees)	2000																		

**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**

27	Improving the Efficiency of Ensemble Classifier Adaptive Random Forest with Meta Level Learning for Real Time Date	Innovation	Seminar	Dayanand Sagar University Bengaluru	Educational Institute	07-06-2019 00:00:00	08-06-2019 00:00:00	2	0	2	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	6000	No						
28	International Conference on Applied Machine Learning	Innovation	Conference	Indian Institute of Technology Bhubaneswar	Educational Institute	25-10-2019 00:00:00	26-10-2019 00:00:00	2	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	6000	No						
29	DST Texas Instruments India Innovation Design Contest	Innovation	Innovation Contest	Texas Instruments	Corporate / Industry Association	22-01-2020 00:00:00	22-01-2020 00:00:00	1	5	1	6	Yes	Semi finalist	KISAN MITRA	Total Total Expense Amount Incurred by Institute? (In Rupees)	16000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Semi finalist</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>KISAN MITRA</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Semi finalist	Title of Innovation / Start-up Secured the Award / Recognition	KISAN MITRA	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Semi finalist																						
Title of Innovation / Start-up Secured the Award / Recognition	KISAN MITRA																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
30	Recent Advances in Physical Sciences	Innovation	Conference	International Academy of Physical Sciences	Educational Institute	19-11-2019 00:00:00	20-11-2019 00:00:00	2	0	2	2	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	1800	No						
31	Power, Control and Computing Technologies	Innovation	Conference	National Institute of Technology, Raipur	Educational Institute	03-01-2020 00:00:00	05-01-2020 00:00:00	3	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	6000	No						
32	Natural Language Processing ICON 2019	Innovation	Conference	Indian Institute of Technology Hyderabad	Govt. Agency (Central)	17-12-2019 00:00:00	22-12-2019 00:00:00	6	0	1	1	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	6000	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**

33	Emerging Research Trends in Computer Science and Information Technology	Innovation	Skill development	Bharati Vidyapeeths Institute of Computer Applications and Management, New Delhi	Educational Institute	04-12-2019 00:00:00	08-12-2019 00:00:00	5	0	1	1	No	---	---	No	No
34	Cyber Technology and Blockchain Technologies	Innovation	Skill development	International Institute of Information Technology, Naya Raipur and Indian Institute of Information Technology, Design and Manufacturing, Jabalpur	Educational Institute	02-07-2019 00:00:00	04-07-2019 00:00:00	3	0	2	2	No	---	---	No	No
35	Recent Trends in Data Science and Information Security	Innovation	Skill development	D Y Patil University Navi Mumbai	Educational Institute	11-11-2019 00:00:00	23-11-2019 00:00:00	13	0	1	1	No	---	---	No	No
36	Recent Trends in Microwave Millimeter Wave Technology and their applications in Wireless Communication and Defense of Electronics Engineering	Innovation	Skill development	Indian Institute of Technology, Varanasi	Educational Institute	18-12-2019 00:00:00	21-12-2019 00:00:00	4	0	1	1	No	---	---	No	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**

37	Global Student Entrepreneurship Award(G SEA)	Entrepreneurship/Startup	Start-up Yatra	John Cook School of Business (Saint Louis University)	International Agencies	08-08-2019 00:00:00	09-08-2019 00:00:00	2	250	7	257	Yes	Winner - State level (Cash Prize of Rs 100000)	Development of App for Stock Market	No	Award / Position / Recognition Secured	Winner - State level (Cash Prize of Rs 100000)
																Title of Innovation / Start-up Secured the Award / Recognition	Development of App for Stock Market
																Award/Recognition/Achievement Received for	Business Model/Start up
38	Competition for Designing an App for Customers	Innovation	Innovation Contest	Hero Motor Corp	Corporate / Industry Association	21-11-2019 00:00:00	21-11-2019 00:00:00	1	3500	0	3500	Yes	Selected in Round 1- Among Top 40	Designed the App	No	Award / Position / Recognition Secured	Selected in Round 1- Among Top 40
																Title of Innovation / Start-up Secured the Award / Recognition	Designed the App
																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	Innovative and Entrepreneurial Skills	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Information Technology	18-07-2019	29-11-2019	135	Offline	56	35
2	Managerial Skills	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Information Technology	07-01-2020	22-05-2020	137	Offline	57	35
3	Innovation and Entrepreneur Skills	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Mechanical Engineering	18-07-2019	15-09-2019	60	Offline	126	41
4	Management Concepts and Techniques	IPR	Elective/Core Credit Course	Bachelor	Electronics and Telecommunication	01-01-2020	01-06-2020	153	Offline	104	30
5	Managerial Skills	IPR	Elective/Core Credit Course	Bachelor	Electronics and Telecommunication	01-01-2020	01-06-2020	153	Offline	104	30
6	Medical Electronics	Innovation	Elective/Core Credit Course	Bachelor	Electrical and Electronics Engineering	25-07-2020	26-09-2020	64	Offline	52	32

7	Power Apparatus System	IPR	Elective/Core Credit Course	Bachelor	Electrical and Electronics Engineering	28-08-2019	30-10-2019	64	Offline	56	36
8	Bio Medical Instrumentation	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Electrical Engineering	07-01-2020	18-03-2020	72	Offline	55	37
9	Electrical Estimation and Costing	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Electrical Engineering	07-01-2020	18-03-2020	72	Offline	55	37
10	Optimization Techniques	IPR	Elective/Core Credit Course	Master	Electrical Engineering	06-01-2020	18-03-2020	73	Offline	55	35
11	E-Commerce and Strategic Planning	IPR	Elective/Core Credit Course	Bachelor	Computer Science and Engineering	18-07-2019	15-10-2019	90	Offline	93	31
12	Cyber Crime Investigation and Cyber Forensic	Innovation	Elective/Core Credit Course	Master	Computer Science and Engineering	18-07-2019	21-09-2019	66	Offline	3	30
13	Social Media Analytics	Innovation	Elective/Core Credit Course	Master	Computer Science and Engineering	18-07-2019	21-09-2019	66	Offline	2	30
14	Big Data and Hadoop	Innovation	Elective/Core Credit Course	Bachelor	Computer Science and Engineering	16-12-2019	22-02-2020	69	Offline	79	36
15	Enterprise Resource Planning	IPR	Elective/Core Credit Course	Master	Computer Application	05-08-2019	19-10-2019	76	Offline	37	39
16	Cloud Computing	Innovation	Elective/Core Credit Course	Master	Computer Application	05-08-2019	19-10-2019	76	Offline	37	39
17	Big Data Analytics	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Computer Application	05-08-2019	19-10-2019	76	Offline	31	42
18	Disaster Management	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Civil Engineering	07-01-2020	14-03-2020	68	Offline	60	32
19	Ecology and Sustainable Development	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Civil Engineering	07-01-2020	14-03-2020	68	Offline	62	35
20	Construction Management	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Civil Engineering	07-01-2020	14-03-2020	68	Offline	65	40
21	Project Planning Management and Evaluation	Entrepreneurship/Startup	Elective/Core Credit Course	Bachelor	Information Technology	16-12-2019	29-02-2020	76	Offline	52	38
22	Innovation and Technology Management	Innovation	Elective/Core Credit Course	Master	Business Administration	01-07-2020	24-10-2020	116	Offline	111	47
23	Entrepreneurship Management	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Business Administration	19-08-2019	22-11-2019	96	Offline	111	30
24	Management of SME and Family Business	Entrepreneurship/Startup	Elective/Core Credit Course	Master	Business Administration	07-01-2020	14-03-2020	68	Offline	60	30
25	Safety Engineering	Innovation	Elective/Core Credit Course	Bachelor	Mechanical Engineering	16-12-2019	22-02-2020	69	Offline	134	48

**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	Graphics and Multimedia	Entrepreneurship/Startup	Employment Generation Training Programs	Information Technology	09-08-2019	16-10-2019	69	Offline	4	45
2	Electronics Manufacturing Services	IPR	Employment Generation Training Programs	Electronics and Telecommunication	09-08-2019	16-10-2019	69	Offline	8	45
3	Advancements in Electric Drives and Control and their Socio - Environmental Impacts	Innovation	FDP in I&E / IPR	Electrical Engineering	04-11-2019	16-11-2019	13	Offline	42	48
4	Spectrum Insights of Machine Learning Paradigms	Innovation	FDP in I&E / IPR	Bhilai Institute of Technology Durg	11-11-2019	23-11-2019	13	Offline	42	48
5	Software Development	Entrepreneurship/Startup	Employment Generation Training Programs	Computer Science Engineering	11-08-2020	08-10-2020	59	Offline	12	38
6	Banking Finance Services and Insurance	Entrepreneurship/Startup	Employment Generation Training Programs	Business Administration	08-01-2020	05-03-2020	58	Offline	14	33
7	Structural Engineering Design and Practice	Innovation	FDP in I&E / IPR	Civil Engineering	14-10-2019	19-10-2019	6	Offline	43	36

**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. Judith Gomes	Management	Assistant Professor	No	Yes				
	<b>Training Name</b>	<b>Training Theme</b>	<b>Type of Course</b>	<b>Training Agency Name</b>	<b>Training Agency Type</b>	<b>Training Start Date</b>	<b>Training End Date</b>	<b>Training Duration (in Days)</b>	<b>Mode of Delivery</b>
	Faculty Development Program Transition Management	Entrepreneurship/Startup	FDP in I&E, IPR	Pandit Madan Mohan Malviya National Mission for Teachers and Teaching MHRD	Govt. Agency (Central)	02-05-2020 00:00:00	06-05-2020 00:00:00	5	Online
2	Shrawan Pandey	Management	Assistant Professor	No	Yes				
	<b>Training Name</b>	<b>Training Theme</b>	<b>Type of Course</b>	<b>Training Agency Name</b>	<b>Training Agency Type</b>	<b>Training Start Date</b>	<b>Training End Date</b>	<b>Training Duration (in Days)</b>	<b>Mode of Delivery</b>
	Faculty Development Program Scientific Innovation	Innovation	FDP in I&E, IPR	Vigyan Bharti Rajasthan	Govt. Agency (State)	22-05-2020 00:00:00	25-05-2020 00:00:00	4	Online
3	Dr Satya Vardhan Tiwari	Management	Associate Professor	Yes	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	Innovation Club	Innovation Club	2018	Co-working Space	Innovation Labs	15	Siddharth Chakravarty	sidchakra01@gmail.com	9051965820
2	Startup Club	Startup Club	2019	Co-working Space	Pre-Incubation Unit, Centre of Excellence with Advance Tools	9	Samarjeet Singh Chhabra	samarjeetsinghking@gmail.com	9179227444

**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	Entrepreneurship Development Centre	EDC	2011	Co-working Space	Incubation Unit, Centre of Excellence with Advance Tools, Student Clubs	Incubation Unit, Centre of Excellence with Advance Tools, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Sanjay Kumar Guha</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sanguh a65@gmail.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>942413 2898</td> </tr> </table>	Facility Incharge Name	Dr Sanjay Kumar Guha	Facility Incharge Email	sanguh a65@gmail.com	Facility Incharge Phone	942413 2898	12	Yes	No	Yes
Facility Incharge Name	Dr Sanjay Kumar Guha																
Facility Incharge Email	sanguh a65@gmail.com																
Facility Incharge Phone	942413 2898																
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)											
Funding Agency		Department of Science and Technology		Govt. Agency (Central)		700000											
2	Research & Development	Innovation Centre	2018	Work Stations	Incubation Unit, Centre of Excellence with Advance Tools, Student Clubs	Incubation Unit, Centre of Excellence with Advance Tools, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Partho Roy</td> </tr> <tr> <td>Facility Incharge Email</td> <td>patsroy @gmail.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>940620 4557</td> </tr> </table>	Facility Incharge Name	Dr Partho Roy	Facility Incharge Email	patsroy @gmail.com	Facility Incharge Phone	940620 4557	04	Yes	No	Yes
Facility Incharge Name	Dr Partho Roy																
Facility Incharge Email	patsroy @gmail.com																
Facility Incharge Phone	940620 4557																
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		Bhilai Institute of Technology, Durg		Educational Institute		231080											

**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)**

3	Computer Aided Manufacturing Centre	Innovation Centre	2018	3D Printing & Prototype Equipment	Centre of Excellence with Advance Tools, Student Clubs	Centre of Excellence with Advance Tools, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Anjul Rai</td> </tr> <tr> <td>Facility Incharge Email</td> <td>anjulrai12@gmail.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>07882321163</td> </tr> </table>	Facility Incharge Name	Anjul Rai	Facility Incharge Email	anjulrai12@gmail.com	Facility Incharge Phone	07882321163	07	Yes	No	Yes
Facility Incharge Name	Anjul Rai																
Facility Incharge Email	anjulrai12@gmail.com																
Facility Incharge Phone	07882321163																
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		Bhilai Institute of Technology, Durg		Educational Institute		120000											

**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	Texas Instruments Innovation Centre	2016	Pre-Incubation, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Manisha Sharma</td> </tr> <tr> <td>Facility Incharge Email</td> <td>manishasharma1@rediffmail.com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9425234261</td> </tr> </table>	Facility Incharge Name	Dr. Manisha Sharma	Facility Incharge Email	manishasharma1@rediffmail.com	Facility Incharge Phone	9425234261	04	Yes	No	Yes
Facility Incharge Name	Dr. Manisha Sharma														
Facility Incharge Email	manishasharma1@rediffmail.com														
Facility Incharge Phone	9425234261														
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)									
Funding Agency		Edgate Technologies		Corporate / Industry Association		300000									

**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	Centre of Excellence for Machine Learning	2019	Pre-Incubation, Student Clubs		Facility Incharge Name	Sudeep Bhattacharya	03	Yes	No	Yes
					Facility Incharge Email	sudip.bhattacharya@bitdurg.ac.in				
					Facility Incharge Phone	7770939762				
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)	
Institute's Own Fund / Resource				Bhilai Institute of Technology, DURG			Educational Institute		763182	

**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	Internet of Things Lab	2018	Innovation Labs, Centre of Excellence with Advance Tools, Student Clubs		Facility Incharge Name	Mr Sarang Pitale	03	Yes	No	Yes
					Facility Incharge Email	sarang.pitale@bitdurg.ac.in				
					Facility Incharge Phone	8770284540				
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)	
Institute's Own Fund / Resource				Bhilai Institute of Technology, DURG			Educational Institute		1408000	

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

2	Siemens Programmable Logic Controller (PLC)	2015	Pre-Incubation, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Nagendra Tripathi</td> </tr> <tr> <td>Facility Incharge Email</td> <td>n.tripathi@bitdurg.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9827153504</td> </tr> </table>	Facility Incharge Name	Dr. Nagendra Tripathi	Facility Incharge Email	n.tripathi@bitdurg.ac.in	Facility Incharge Phone	9827153504	03	No	No	Yes
	Facility Incharge Name	Dr. Nagendra Tripathi													
	Facility Incharge Email	n.tripathi@bitdurg.ac.in													
Facility Incharge Phone	9827153504														
Source of Grant / Fund				Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)							
Institute's Own Fund / Resource				Bhilai Institute of Technology, DURG		Educational Institute		570000							
3	Computerized Four stroke 4 cylinder Diesel Engine Test Rig	2018	Innovation Labs	AICTE - MODROBS	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Mr Manish Kumar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>manish.pandey@bitdurg.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9407908833</td> </tr> </table>	Facility Incharge Name	Mr Manish Kumar	Facility Incharge Email	manish.pandey@bitdurg.ac.in	Facility Incharge Phone	9407908833	02	No	No	Yes
	Facility Incharge Name	Mr Manish Kumar													
	Facility Incharge Email	manish.pandey@bitdurg.ac.in													
Facility Incharge Phone	9407908833														
Source of Grant / Fund				Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)							
Institute's Own Fund / Resource				Bhilai Institute of Technology, DURG		Educational Institute		1200000							
4	Machine Tool Technology Lab	2017	Pre-Incubation, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Shiena Shekhar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>shiena.shekhar@bitdurg.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9827408902</td> </tr> </table>	Facility Incharge Name	Dr. Shiena Shekhar	Facility Incharge Email	shiena.shekhar@bitdurg.ac.in	Facility Incharge Phone	9827408902	03	No	No	Yes
	Facility Incharge Name	Dr. Shiena Shekhar													
	Facility Incharge Email	shiena.shekhar@bitdurg.ac.in													
Facility Incharge Phone	9827408902														
Source of Grant / Fund				Agency Name		Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)							
Institute's Own Fund / Resource				Bhilai Institute of Technology, DURG		Educational Institute		192100							

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

5	Accelerated Curing Tank	2004	Pre-Incubation, Centre of Excellence with Advance Tools, Student Clubs		Facility Incharge Name	Mr Tushar Saxena	03	Yes	No	Yes
					Facility Incharge Email	tushar.saxena@bitdurg.ac.in				
					Facility Incharge Phone	9301772667				
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)			
Institute's Own Fund / Resource		Bhilai Institute of Technology, DURG			Educational Institute		56430			
6	Diffused light Research Self Poloriscope	2017	Centre of Excellence with Advance Tools, Student Clubs		Facility Incharge Name	Dr Shubhrata Nagpal	03	No	No	Yes
					Facility Incharge Email	shubhrata.nagpal@bitdurg.ac.in				
					Facility Incharge Phone	9826640188				
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)			
Institute's Own Fund / Resource		Bhilai Institute of Technology, DURG			Educational Institute		218800			
7	Stress Freezing Oven	2017	Pre-Incubation, Centre of Excellence with Advance Tools, Student Clubs		Facility Incharge Name	Dr Shubhrata Nagpal	03	No	No	Yes
					Facility Incharge Email	shubhrata.nagpal@bitdurg.ac.in				
					Facility Incharge Phone	9826640188				
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)			
Institute's Own Fund / Resource		Bhilai Institute of Technology, DURG			Educational Institute		83500			

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

8	3 - phase Transformer fault detection system	2008	Pre-Incubation, Centre of Excellence with Advance Tools, Student Clubs		Facility Incharge Name	Mr Alok Kumar	02	No	No	Yes
					Facility Incharge Email	alok.kumar@bitdurg.ac.in				
					Facility Incharge Phone	9981892643				
Source of Grant / Fund		Agency Name			Agency Type			Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)		
Institute's Own Fund / Resource		Bhilai Institute of Technology, DURG			Educational Institute			250000		
9	Real Time Analysis- D Space Software	2019	Pre-Incubation, Centre of Excellence with Advance Tools, Student Clubs		Facility Incharge Name	Dr Sanjay Kumar Sahu	02	No	No	Yes
					Facility Incharge Email	sk.sahu@bitdurg.ac.in				
					Facility Incharge Phone	997581767				
Source of Grant / Fund		Agency Name			Agency Type			Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)		
Institute's Own Fund / Resource		Bhilai Institute of Technology, DURG			Educational Institute			670000		
10	Laser Cutting Machine	2020	Pre-Incubation, Centre of Excellence with Advance Tools, Student Clubs		Facility Incharge Name	Dr Manoj Kumar Pal	04	No	No	Yes
					Facility Incharge Email	manoj.pal@bitdurg.ac.in				
					Facility Incharge Phone	9893283543				
Source of Grant / Fund		Agency Name			Agency Type			Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)		
Institute's Own Fund / Resource		Bhilai Institute of Technology, DURG			Educational Institute			460200		

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

11	Power Research & Development - Transmission Line system	2012	Pre-Incubation, Centre of Excellence with Advance Tools, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Archan a Gupta</td> </tr> <tr> <td>Facility Incharge Email</td> <td>archan a.gupta@bitdurg.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>98261 10851</td> </tr> </table>	Facility Incharge Name	Dr Archan a Gupta	Facility Incharge Email	archan a.gupta@bitdurg.ac.in	Facility Incharge Phone	98261 10851	02	No	No	Yes
Facility Incharge Name	Dr Archan a Gupta														
Facility Incharge Email	archan a.gupta@bitdurg.ac.in														
Facility Incharge Phone	98261 10851														
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)								
Institute's Own Fund / Resource		Bhilai Institute of Technology, DURG			Educational Institute		650000								

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

<b>No Data Filled!</b>
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**Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

<b>No Data Filled!</b>
------------------------

**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	Dr Satya Vardhan Tiwari	Associate Professor	Entrepreneurship/Startup Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Bhimsaria Polymers Private Ltd		Outside	U36103CT1997PTC011685
	Earthen Ceramics Private Ltd		Outside	U26911CT2008PTC020529
	Magniro Global Private Limited		Outside	U27109CT2020PTC010119
	NJOY Tourist Infra Private Limited		Outside	U70109GJ2020PTC117318

**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	Mr Abhiroop Roy	Entrepreneurship/Startup Development	Structured Mentorship

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

	Structured Mentorship Program Name	Start Date	End Date	Total No of Days of Mentorship Program	No of Mentors Involved	Mentorship Cohort Size (No. of Mentee)	Type of Mentee
	Machine Learning	06-01-2020	16-03-2020	71	03	05	Innovation/Prototype
	Conversational AI Chatbot	13-08-2019	16-10-2019	65	02	04	Innovation/Prototype
2	Mr Tushar Bopche	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								
1	Franchisee Seeker	Product Innovation	Technological	Centre of Excellence for Machine learning	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	<table border="1"> <tr> <td>Agency Name</td> <td>Bodex Pvt Ltd.</td> </tr> <tr> <td>Agency Type</td> <td>Not-Govt. Agencies</td> </tr> <tr> <td>Award / Position / Recognition Secured</td> <td>Winner</td> </tr> </table>	Agency Name	Bodex Pvt Ltd.	Agency Type	Not-Govt. Agencies	Award / Position / Recognition Secured	Winner	No	<table border="1"> <tr> <td>Grant Amount in Rs</td> <td>3400</td> </tr> </table>	Grant Amount in Rs	3400	No	No
Agency Name	Bodex Pvt Ltd.																				
Agency Type	Not-Govt. Agencies																				
Award / Position / Recognition Secured	Winner																				
Grant Amount in Rs	3400																				
Name		Type		Gender		Email		Contact													
Shiv Shankar Kumar		Student		Male		way2shivkr@gmail.com		8319342298													
Name		Type		Gender		Email		Contact													
Ghanshyam Singh Netam		Student		Male		a.inetam3076@gmail.com		7000082359													



2	Digital Valuation System	Product Innovation	Technological	Research & Development	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Adopted and Implemented at Ground	No	No	Grant Amount in Rs 4300	No	No
Name		Type			Gender		Email			Contact			
Mr. Sarang Pitale		Faculty			Male		sense.sarang@gmail.com			9981359849			
3	Admission Management System	Product Innovation	Technological	Research & Development	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Adopted and Implemented at Ground	No	No	Grant Amount in Rs 3800	No	No
Name		Type			Gender		Email			Contact			
Mr. Sarang Pitale		Faculty			Male		sense.sarang@gmail.com			9981359850			
4	Attendance Management System	Product Innovation	Technological	Entrepreneurship Development Centre	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Adopted and Implemented at Ground	No	No	Grant Amount in Rs 3300	No	No

Name		Type							Gender		Email		Contact	
Mr. Sarang Pitale		Faculty							Male		sense.sarang@gmail.com		9981359851	
5	Automated Basti Preparation Machine	Product Innovation	Technological	Entrepreneurship Development Centre	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	Grant Amount in Rs 4200	No	No	
	Name		Type							Gender		Email		Contact
	Aarya Gupta		Student							Male		aaryakumargupta@gmail.com		8877680694
	Name		Type							Gender		Email		Contact
	Rohan Jaiswal		Student							Male		rohan1312jaiswal@gmail.com		8340443573
	Himanshu Sen		Student							Male		sgoku7401@gmail.com		7007442264
	Kshitiz Sinha		Student							Male		kshitizsinha321@gmail.com		9575246673
Aman Mandal		Student							Male		mandal.aman101@gmail.com		7225952566	
Akanksha Patil		Student							Female		aditi13p@gmail.com		9827275158	
6	Aprakshan	Product Innovation	Technological	Centre of Excellence for Machine learning	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	Grant Amount in Rs 3200	No	No	
	Name		Type							Gender		Email		Contact
Rajan Sahu		Student							Male		rsahu609@gmail.com		8871477746	

Name	Type	Gender	Email	Contact
Anukriti Banerjee	Student	Female	anukriti.banerjee16@gmail.com	7692866726
Virendra Pratap Jangde	Student	Male	virujangde@gmail.com	9165968066
V. Vibha Sharma	Student	Female	vvibha2646@gmail.com	8982304204
Mohit Kumar Agrawal	Student	Male	mohitkumaragrawal1590@gmail.com	9407684488
Kritika Singh	Student	Female	kritikasingh141998@gmail.com	9111425625

7	Opinion Mining of tourism sector of India using Machine Learning algorithm from reviews collected through social media	Service Innovation	Technological	Centre of Excellence for Machine learning	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	Grant Amount in Rs 300000	No	No
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Name	Type	Gender	Email	Contact
Dr. Smita Selot	Faculty	Female	smitaselot504@gmail.com	9893458493

Name	Type	Gender	Email	Contact
Mr. Sreejit Panicker	Faculty	Male	sreejit.bhilai@gmail.com	9977018998
Dr. Ani Thomas	Faculty	Female	ani.thomas@bitdurg.ac.in	7987975905

8	To facilitate the sales of rural products and arts of Chhattisgarh through E-Commerce using Data Mining, Data Science and Soft Computing Techniques	Service Innovation	Technological	Centre of Excellence for Machine learning	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	Grant Amount in Rs 120000	No	No
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Name	Type	Gender	Email	Contact
Mr. Aditya Tiwari	Faculty	Male	adityarise0609@gmail.com	8770196540

Name	Type	Gender	Email	Contact
Dr. Jyothi Pillai	Faculty	Female	jyothi.pillai@bitdurg.ac.in	9300827591

9	An ICT approach towards enhancing English speaking skills	Service Innovation	Technological	Research & Development	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	Grant Amount in Rs 150000	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Dr. Seema Arora		Faculty			Female		seema.shekar45@gmail.com			9893732320			
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Mr. Amrendra Singh		Faculty			Male		amrendrakumar83@gmail.com			700129484			
Dr. Madhu Kamra		Faculty			Male		kamra61@yahoo.com			7024101095			
10	Enhancement of security in bluetooth pairing schemes	Service Innovation	Technological	Research & Development Centre	Faculty	TRL 6 : Prototype system tested in intended environment close to expected performance.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	Grant Amount in Rs 4000	No	No
<b>Name</b>		<b>Type</b>			<b>Gender</b>		<b>Email</b>			<b>Contact</b>			
Dr. Sanjeev Karmakar		Faculty			Male		dr.karmakars@gmail.com			9340403165			
11	Effect of application of epoxy coating on cold form structural steel plate subjected to tension	Process Innovation	Technological	Research & Development	Faculty	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	Grant Amount in Rs 100999	No	No

Name	Type	Gender	Email	Contact
Dr. M.K. Gupta	Faculty	Male	info@mohangupta.com	9340447442

Name	Type	Gender	Email	Contact
Mrs. Shraddha Sharma	Faculty	Female	shraddha.sharma@bitdurg.ac.in	8602100885

12	Effect of glass wool in property of concrete	Product Innovation	Technological	Civil Engineering	Student-Faculty	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	Grant Amount in Rs 3800	No	No
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Name	Type	Gender	Email	Contact
Dr. S.K. Jaiswal	Faculty	Male	sk.jaiswal@bitdurg.ac.in	9826390893

Name	Type	Gender	Email	Contact
Pavan Kumar Jaiswal	Student	Male	pavanjaiswal213@gmail.com	7582974334

13	Waste foundry sand as partial replacement of fine aggregate in concrete	Product Innovation	Technological	Civil Engineering	Student-Faculty	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	Grant Amount in Rs 3800	No	No
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Name	Type	Gender	Email	Contact
Dr. S.K. Jaiswal	Faculty	Male	sk.jaiswal@bitdurg.ac.in	9826390893

Name	Type	Gender	Email	Contact
Somya Madvariya	Student	Female	somyamadvariya@gmail.com	9691775691

14	Development of Intermediate Pyrolysis Reactor for characterization of Herbal Product	Process Innovation	Technological	Research & Development Centre	Faculty	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	Grant Amount in Rs 300000	No	No
Name		Type			Gender		Email			Contact			
Jay Singh Gaharwar		Faculty			Male		jaysingh.vnit23@gmail.com			9893541322			
15	IoT based Smart Waste Management System	Product Innovation	Technological	Electronics and Telecommunication Engineering	Student	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 2 : Technology formulation . Concept and application have been formulated.	Innovation Development Completed	No	No	Grant Amount in Rs 2000	No	No
Name		Type			Gender		Email			Contact			
Gunjan Singh		Student			Female		gunjan14singh10@gmail.com			7470656186			
16	An IoT based Health monitoring System using Raspberry Pi	Product Innovation	Technological	Internet of Things lab - Incubation facility	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	Grant Amount in Rs 15000	No	No
Name		Type			Gender		Email			Contact			
Gagandeep Singh		Student			Male		gagan8uu@gmail.com			7828088410			

17	Ocean Oil Extraction and Plastic Remover IoT Based Robot	Product Innovation	Technological	Internet of Things Lab - Incubation Facility	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	Grant Amount in Rs 4000	No	No
Name		Type			Gender		Email		Contact				
Bipul Biswas		Student			Male		bipulbiswas089@gmail.com		9109726144				
Name		Type			Gender		Email		Contact				
Deepak Kumar		Student			Male		deepak9407@gmail.com		9475557626				
18	Smart Trolley for Visually and Hearing Disability People with Product Safety	Product Innovation	Technological	Texas Instruments Innovation Centre	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	Grant Amount in Rs 7000	No	No
Name		Type			Gender		Email		Contact				
Neha Sahu		Student			Female		nehasahu22501@gmail.com		8982047557				
Name		Type			Gender		Email		Contact				
Mukesh Bharadwaj		Student			Male		mukeshbharadwaj97@gmail.com		8817251293				

19	IoT Based Smart Voice Controlled Bed with Real Time Health Monitoring	Product Innovation	Technological	IoT Lab - Incubation facility	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	Grant Amount in Rs 3000	No	No
Name		Type			Gender		Email		Contact				
Bhupesh Kumar Verma		Student			Male		bhupesh.verma09@gmail.com		7898418522				
Name		Type			Gender		Email		Contact				
Bharti Nirmalkar		Student			Female		bnirmalkar1102@gmail.com		9131281128				
20	Tailoring the Bio-conjunction low dimensional material for bio FET ab-initio Modelling	Process Innovation	Technological	Texas Instruments Innovation Centre	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	Grant Amount in Rs 9500	No	No
Name		Type			Gender		Email		Contact				
Swati Verma		Student			Female		swareet251088@gmail.com		9407658131				



21	MediRobot	Product Innovation	Technological	Texas Instruments Innovation Centre	Student	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Adopted and Implemented at Ground	Agency Name	AICTE	Yes	Grant Amount in Rs	80000	No	No
									Agency Type	Govt. Agency (Central)					
									Award / Position / Recognition Secured	Shortlisted for Chhatra Vishvakarma Award					

Name	Type	Gender	Email	Contact
Akansha Shrivastava	Student	Female	akanshasrivastavanda@gmail.com	9113185230

22	Criminal Navigation Project	Service Innovation	Technological	Centre of Excellence for Machine learning	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	Agency Name	AICTE	No	Grant Amount in Rs	3000	No	No
									Agency Type	Govt. Agency (Central)					
									Award / Position / Recognition Secured	Participated in finals of Smart India Hackathon					

Name	Type	Gender	Email	Contact
Abhishek Agrawal	Student	Male	abhishekagrawal8888@gmail.com	8871637776

Name	Type	Gender	Email	Contact
Kuldeep Patel	Student	Male	patelkuldeep0001@gmail.com	7000728570
Ayushi Singal	Student	Female	ayushisinghal.2000@gmail.com	7000439932
Abhay Choudhary	Student	Male	acabhaychoudhary562@gmail.com	7389594634
Anchal Gupta	Student	Female	anhalgupta26032000@gmail.com	7999185561
Nayan Sori	Student	Male	sorinayan@gmail.com	7587097855

23	Detection of Child Predator	Process Innovation	Technological	Centre of Excellence for Machine learning	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	Agency Name	AICTE	No	6000	No	No
									Agency Type	Govt. Agency (Central)		Grant Amount in Rs		
									Award / Position / Recognition Secured	Participated in finals of Smart India Hackathon				

Name	Type	Gender	Email	Contact
Pranjalya Tiwari	Student	Male	pranjalya.tiwari10@gmail.com	8226064719

Name	Type	Gender	Email	Contact
Md. Faizan	Student	Male	faizaanazim@gmail.com	8226064719
Akash Kumar	Student	Male	akashkumar2k10@gmail.com	9955116389
Manas Sharma	Student	Male	manask.sharma@gmail.com	9826415959
Gauri Saraswat	Student	Female	gaurisaraswat@gmail.com	9977638950
Kriti Ajwani	Student	Female	kritiajwani6148@gmail.com	8349199901

24	Soldier Strap	Product Innovation	Technological	Texas Instruments Centre of Excellence	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	Grant Amount in Rs 3000	No	No
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Name	Type	Gender	Email	Contact
G. Sai Krishna	Student	Male	sai.krishna221b@gmail.com	8878793816

Name	Type	Gender	Email	Contact
Harshad Khedkar	Student	Male	harshad87khedkar@gmail.com	9131701159

25	Clamp-on Flow Metering	Product Innovation	Technological	Research & Development	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	Grant Amount in Rs 5000	No	No
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Name	Type	Gender	Email	Contact
Pratik Sahu	Student	Male	pratiksahu184@gmail.com	9479278539

Name	Type	Gender	Email	Contact
Swamil Jain	Student	Male	swamil.jain2016@gmail.com	7987417030
Sampada Chopde	Student	Female	sampadachopde20@gmail.com	9584965000
Lori Surana	Student	Female	lorisurana1610@gmail.com	9425517998
Samiksha Banchhor	Student	Female	rkssamiksha00@gmail.com	9644072295
Vinay Agrawal	Student	Male	vinayagrawalbhilai29@gmail.com	8319464088

26	Pothole Challenge	Process Innovation	Technological	Internet of Things lab	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	Grant Amount in Rs 4000	No	No
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Name	Type	Gender	Email	Contact
Srijan Sharma	Student	Male	srijans38@gmail.com	9340925986

Name	Type	Gender	Email	Contact
Abhishek Bagarti	Student	Male	abhishekbagarti@gmail.com	9039726063
Atinder Pal Singh	Student	Male	atinder999@gmail.com	7000787208
Pooja Verma	Student	Female	pooja08109@gmail.com	9981209850
S Salman	Student	Male	ssalmany09@gmail.com	7987349770
Sohail Memon	Student	Male	sohailmemon10@gmail.com	6263497358

27	Online - FIR	Service Innovation	Technological	Internet of Things Lab	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	Grant Amount in Rs 1000	No	No
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Name	Type	Gender	Email	Contact
G S Rohit	Student	Male	rohits2000@gmail.com	6266218189

Name	Type	Gender	Email	Contact
V Rahul	Student	Male	vrahul200023@gmail.com	9098301903
Vaibhav Saxena	Student	Male	vaibhav.1865@gmail.com	9589001042
Shivam Shukla	Student	Male	shukla54shivam@gmail.com	8602727372
Vikas Dewangan	Student	Male	vikasdewangan336@gmail.com	9770300599
Shivani Shamra	Student	Female	shivaniGOPISHARMA@gmail.com	7424960498

28	Technological intervention for value addition of agricultural products	Process Innovation	Technological	Internet of Things Lab	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 Completed	No	No	Grant Amount in Rs 2000	No	No
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Name	Type	Gender	Email	Contact
Devanshu Biswas	Student	Male	devanshu62@gmail.com	9713044748

Name	Type	Gender	Email	Contact
Nidhi Potai	Student	Female	nidhipotai422@gmail.com	6260169625
Ritika Tolani	Student	Female	ritikatolani11@gmail.com	9340657402
Ram Kumar	Student	Male	ramkr165055@gmail.com	7634095650
Jyoti Prajapati	Student	Female	jyotipp98@gmail.com	9399402908
Ankur Pashine	Student	Male	ankurpashine27@gmail.com	7024980480

29	Gamification of Health Data Collection	Service Innovation	Technological	Centre of Excellence for Machine Learning	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	Grant Amount in Rs 1000	No	No
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Name	Type	Gender	Email	Contact
Kartikey Rawat	Student	Male	rawatkari554@gmail.com	8839256099
Name	Type	Gender	Email	Contact
Agney Deshkar	Student	Male	agneydeshkar111@gmail.com	6261731565
K Rohit	Student	Male	rohit.apex1999@gmail.com	8085233238
Aditya Hirwani	Student	Male	thegreataditya.1999@gmail.com	9131974181
Shuchi Agrawal	Student	Female	shuchiagrawal2000@gmail.com	9893010932
Kshitija Agrawal	Student	Female	kshitijaagrawal2000@gmail.com	7049252909

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Design aid to IS 800-2007 safe load for angle struts	Service Innovation	Technol ogical	Researc h & Develop ment	Stude nt- Facul ty	TRL 1 : Basic resea rch. Princi ples postu lated and obser ved but no exper iment al proof availa ble.	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	Innovati on Develop ment Ongoing	No	No	No	4050	Grant Amount in Rs	No	No
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Name	Type	Gender	Email	Contact
Dr. M.K. Gupta	Faculty	Male	info@mohangupta.com	9340447442
Name	Type	Gender	Email	Contact
VIDHI CHOPRA	Student	Female	vidhichopra95@gmail.com	8982596001

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Analysis of irregular RCC framed structure for fundamental natural period	Process Innovation	Technol ogical	Researc h & Develop ment Centre	Stude nt- Facul ty	TRL 1 : Basic resea rch. Princi ples postu lated and obser ved but no exper iment al proof availa ble.	TRL 3 : Appli ed resea rch. First labor atory tests comp leted; proof of conc ept.	Innovati on Develop ment Ongoing	No	No	No	No	No	No
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Name		Type		Gender		Email		Contact					
Mr Hitesh Sharma		Faculty		Male		hitesh.sharma@bitdurg.ac.in		6261799390					
Name		Type		Gender		Email		Contact					
VINOD		Student		Male		ronie.vinod22@gmail.com		8827815476					
32	Generating CARBON CREDITS through agriculture	Process Innovation	Technological	Internet of Things Lab	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	Grant Amount in Rs 2500	No	No
Name		Type		Gender		Email		Contact					
Vinayak Rawat		Student		Male		vinayakrawat292@gmail.com		6261731565					
33	Aerial Painting Drone	Product Innovation	Technological	Research & Development Centre	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	Grant Amount in Rs 30000	No	No
Name		Type		Gender		Email		Contact					
Mr Sachet Sabard		Student		Female		sachetsabard@gmail.com		7722874355					

34	3D modeling of Thagda Dam Park and Recreation	Service Innovation	Technological	Research & Development Centre	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
Akshay Sharma	Student	Male	akshaysharma@gmail.com	08770478295

35	App for Stock Market	Process Innovation	Technological		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 Completed	Agency Name	Global Student Entrepreneur Awards-Saint Louis University,	No	Grant Amount in Rs	3000	No	No
									Agency Type	International Agencies					
									Award / Position / Recognition Secured	Winner - Award Rs One Lakh only					

Name	Type	Gender	Email	Contact
Bharat Aggarwal	Student	Male	bharat@intradae.com	9111346676

Name	Type	Gender	Email	Contact
Sachet Sabarad	Student	Male	sachetsabaradics@gmail.com	7722874355





1	Mechatronic Enterprises Private Ltd	Product Innovation	Technological	3949	Student	Venture with Corporate Identification Number (CIN) Registration U31909BR2020PTC047602	2019-20	Received Incubation Support from Incubation Unit	Agency Name AICTE	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured Shortlisted for Chhatra Vishwakarma Award	Grant Amount in Rs 10000	No	No	No
	Name Aakansha Shrivastava		DIN number 08772701		Type Student	Gender Female	Email akanshasrivastavanda@gmail.com	Contact 9113185230							
2	AUTOLOGIC TECHNOLOGY PRIVATE LIMITED	Product Innovation	Technological	3949	Student	Venture with Corporate Identification Number (CIN) Registration U72200CT2019PTC009131	2018-19	Graduated from the Incubation unit	No	Grant Amount in Rs 200000	No	No	No		
	Name Rakesh Choudhary		DIN number JBPA07165E		Type Alumni Entrepreneur	Gender Male	Email rakesh.rchoudhary01@gmail.com	Contact 7000239040							

### 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	Globusoft Pvt Ltd	Non-Govt. Agencies	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Mentoring	02	12-03-2020
2	Arosys Technologies Private Limited	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	03	03-03-2020
3	TATA STEEL Ltd	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring	04	09-07-2019
4	GoBaskt Inc	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation	17	18-11-2019

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

Srno	Title/Name of IP(Copyright & Designs Only)	Type of IP(Copyright & Designs Only)	IP(Copyright & Designs Only) Registration Number of Copyright/Design	Application Level	Date of Copyright / Design IP Filed/ Published (Year, Month)	Copy of receipt / application screenshot [PDF or Image]	Current Status of IP(Copyright & Designs Only) as on 31st March 2020	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	Medical Image Water Marking	IPRFiledPublished	SW-12388/2019	National	2019 - 05	Uploaded	Granted	No
Department/Centre Name Electronics and Telecommu								

2	Biometric Vehicle Ignition System	IPRFiledPublished	SW-12926/2019	National	2019 - 10	Uploaded	Granted	No
Department/Centre Name								
Information Technology								
3	Innovative Training Algorithm of Back Propagation Neural Network up to Global Minima for N Parametric Forecast and its Software Implementation through JAVA	IPRFiledPublished	SW-12848/2019	National	2019 - 09	Uploaded	Granted	No
Department/Centre Name								
Computer Application								
4	Pixel Peak Based Fractal Image Compression for Grayscale Images An Innovative Algorithm and its Software Implementation using MATLAB	IPRFiledPublished	SW-12857/2019	National	2019 - 09	Uploaded	Granted	No
Department/Centre Name								
Computer Application								
5	Innovative Algorithms to obtain Optimum Back Propagation Neural Network (OBPN) for CHAOS Prediction and its Software Implementation by using JAVA	IPRFiledPublished	SW-12864/2019	National	2019 - 09	Uploaded	Granted	No
Department/Centre Name								
Computer Application								

**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	Front wheel drive system for Motorcycle	201721018569	National	2019 - 06	Uploaded