



# 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: National Institute of Technology Tiruchirappalli [ARI-U-0467]

### 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	Dept. of energy and environment	Academic Department with lab facility	Energy and Environment	UG / PG / PhD	Technical	68	9	3
2	Centre for Entrepreneurship Development and Incubation	Incubation Unit	Multisector/multi disciplinary	At all level	Technical	200	5	1
3	Octagon - Computer Center	Research Unit / Park	Computer Support Group	At all level	Technical	6952	1	40
4	Centre for Excellence in Artificial Intelligence	Centre of Excellence with Advance Tools & Equipment	Artificial Intelligence and Machine learning	UG / PG / PhD	Technical	300	25	0
5	Centre for Excellence in Energy Harvesting and Storage Technology	Centre of Excellence with Advance Tools & Equipment	Energy Harvesting	UG / PG / PhD	Technical	50	1	0
6	NRDC - Innovation Facility Centre	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Technology Development	At all level	Both	300	4	0
7	Industry Institute Interaction cell	Industry Institute Interface Unit	Industry-Institute Partnership	At all level	Both	200	1	0
8	IPR cell	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Multidisciplinary	At all level	Both	265	3	1
9	Sophisticated Instrumentation Facility	Research Unit / Park	Central facility	At all level	Technical	350	6	1
10	Siemen Centre for Excellence in Advanced Manufacturing	Centre of Excellence with Advance Tools & Equipment	Design & Production	At all level	Technical	5000	39	2
11	Institute Innovation Council	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Multidisciplinary	At all level	Technical	200	5	2
12	Space Technology Incubation Centre ISRO	Incubation Unit	Multidisciplinary	At all level	Technical	100	2	1
13	Centre for Excellence in Advanced Manufacturing and Automation	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Production	At all level	Both	100	3	1

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

14	Department of Architecture	Academic Department with lab facility	Architecture	UG / PG / PhD	Technical	242	19	3
15	Department of Chemical Engineering	Academic Department with lab facility	Chemical Engineering	UG / PG / PhD	Technical	396	25	5
16	Department of Civil Engineering	Academic Department with lab facility	Civil Engineering	UG / PG / PhD	Technical	700	35	5
17	Department of Computer Science and Engineering	Academic Department with lab facility	Computer Science and Engineering	UG / PG / PhD	Technical	590	25	5
18	Department of Electrical and Electronics Engineering	Academic Department with lab facility	Electrical and Electronics Engineering	UG / PG / PhD	Technical	617	39	5
19	Department of Electronics and Communication Engineering	Academic Department with lab facility	Electronics and Communication Engineering	UG / PG / PhD	Technical	633	38	6
20	Department of Instrumentation and Control Engineering	Academic Department with lab facility	Instrumentation and Control Engineering	UG / PG / PhD	Technical	487	23	5
21	Department of Mechanical Engineering	Academic Department with lab facility	Mechanical Engineering	UG / PG / PhD	Technical	671	41	7
22	Department of Metallurgical and Materials Engineering	Academic Department with lab facility	Metallurgical and Materials Engineering	UG / PG / PhD	Technical	416	19	3
23	Department of Production Engineering	Academic Department with lab facility	Production Engineering	UG / PG / PhD	Technical	620	44	10
24	Department of Chemistry	Academic Department with lab facility	Chemistry	UG / PG / PhD	Technical	79	15	4
25	Department of Physics	Academic Department with lab facility	Physics	UG / PG / PhD	Technical	146	23	4
26	Department of Mathematics	Academic Department with lab facility	Mathematics	UG / PG / PhD	Technical	40	17	2
27	Department of Computer Applications	Academic Department with lab facility	Computer Applications	UG / PG / PhD	Technical	424	18	3
28	Department of Management Studies	Academic Department with lab facility	Management Studies	UG / PG / PhD	Non-Technical	210	20	3
29	Department of Humanities and Social Sciences	Academic Department with lab facility	Humanities and Social Sciences	UG / PG / PhD	Non-Technical	41	13	2
30	Centre of Excellence in Corrosion and Surface Engineering (CECASE)	Centre of Excellence with Advance Tools & Equipment	Corrosion and Surface Engineering	UG / PG / PhD	Technical	13	16	3

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

31	Student Center For Innovation In Engineering And Technology	Research Unit / Park	Multidisciplinary	UG / PG / PhD	Technical	500	10	2
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**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 : IC201810650
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?			
																Award / Position / Recognition Secured	Winner		
1	Techstars Startup Weekend Trichy	Entrepreneurship/Startup, Innovation	Innovation Contest	Student Lead Activity	Entrepreneurship Cell NIT Trichy	30-08-2019 00:00:00	01-09-2019 00:00:00	3	Within Campus	106	3	35	0	144	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>60000</td> </tr> </table>	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	60000	Award / Position / Recognition Secured	Winner
Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	60000																		
																Title of Innovation / Start-up Secured the Award / Recognition	Coffee Reads		
															Award/Recognition/Achievement Received for				
2	Breakthrough	Entrepreneurship/Startup	Boot camp	Student Lead Activity	Entrepreneurship Cell NIT Trichy	10-09-2019 00:00:00	16-10-2019 00:00:00	37	Within Campus	30	3	0	0	33	No	No			

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3	Ventura	Entrepreneurship/Startup	B-Plan Competitions	Student Lead Activity	Entrepreneurship Cell NIT Trichy	23-10-2019 00:00:00	29-01-2020 00:00:00	99	Within Campus	235	4	170	2	411	No	<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>Tread, Photej</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td></td> </tr> </table>		Award / Position / Recognition Secured	Winner	Title of Innovation / Start-up Secured the Award / Recognition	Tread, Photej	Award/Recognition/Achievement Received for				
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4	Winter Startup Internship Program	Entrepreneurship/Startup	Skill development	Student Lead Activity	Entrepreneurship Cell NIT Trichy	01-12-2019 00:00:00	04-12-2019 00:00:00	4	Outside Campus	155	3	0	0	158	No	No										
5	E-Conclave	Entrepreneurship/Startup	Conference	Student Lead Activity	Entrepreneurship Cell NIT Trichy	19-01-2020 00:00:00	19-01-2020 00:00:00	1	Outside Campus	130	4	100	0	234	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>30000</td> </tr> </table>		Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	30000	No							
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6	E-Summit	Entrepreneurship/Startup	Conference	Student Lead Activity	Entrepreneurship Cell NIT Trichy	14-02-2020 00:00:00	16-02-2020 00:00:00	3	Within Campus	1616	20	300	4	1940	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>127000</td> </tr> </table>		Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	127000	No							
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7	Transfinitive v2.0, 36-hour hackathon	Innovation	Hackathon	Student Lead Activity	Technical Council of NIT Trichy, Student Council of NIT Trichy	07-02-2020 00:00:00	09-02-2020 00:00:00	3	Within Campus	300	25	0	0	325	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>200000</td> </tr> </table>		Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>First, Second, Third, Fourth in Software and Hardware</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Bosons, Mavericks, T-ceres, Akula, ENSEMBLE, CompileError, dCoders, Gryffindor</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>		Award / Position / Recognition Secured	First, Second, Third, Fourth in Software and Hardware	Title of Innovation / Start-up Secured the Award / Recognition	Bosons, Mavericks, T-ceres, Akula, ENSEMBLE, CompileError, dCoders, Gryffindor	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
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8	Entrepreneurship and Startup Incubation Program 2020	Entrepreneurship/Startup, Innovation	Seminar	Institute Lead Activity	CEDI, NIT Tiruchirappalli	22-01-2020 00:00:00	22-01-2020 00:00:00	1	Outside Campus	40	2	80	4	126	No	No						
9	Faculty Startup Initiative Program	Entrepreneurship/Startup, Innovation	Innovation Contest	Institute Lead Activity	CEDI, NIT Tiruchirappalli	14-06-2019 00:00:00	24-08-2019 00:00:00	72	Within Campus	0	8	0	0	8	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Start up Projects</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Person detection and recognition, Manufacture of Solar Cooking System, Somatosensory status evaluation</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Business Model/Start up</td> </tr> </table>	Award / Position / Recognition Secured	Start up Projects	Title of Innovation / Start-up Secured the Award / Recognition	Person detection and recognition, Manufacture of Solar Cooking System, Somatosensory status evaluation	Award/Recognition/Achievement Received for	Business Model/Start up
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**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	DRDO Dare to Dream	Innovation	Innovation Contest	Defence Research and Development Organisation	Govt. Agency (Central)	15-10-2019 00:00:00	15-10-2019 00:00:00	1	3000	0	3000	Yes	FIRST	Radome	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>FIRST</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Radome</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	FIRST	Title of Innovation / Start-up Secured the Award / Recognition	Radome	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
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2	Singapore - India Hackathon 2019	Innovation	Hackathon	MHRD Innovation Cell (MIC), All India Council for Technical Education (AICTE), Nanyang Technological University, Singapore (NTU Singapore)	Govt. Agency (Central)	28-09-2019 00:00:00	30-09-2019 00:00:00	3	100	10	110	Yes	Sixth	Aarogya	No	Award / Position / Recognition Secured	Sixth	Title of Innovation / Start-up Secured the Award / Recognition	Aarogya	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
3	Industrial Design Problem	Innovation	Innovation Contest	VIT Vellore	Educational Institute	12-10-2019 00:00:00	12-10-2019 00:00:00	1	100	10	110	Yes	First and Second	Industrial Designs	No	Award / Position / Recognition Secured	First and Second	Title of Innovation / Start-up Secured the Award / Recognition	Industrial Designs	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
4	Caterpillar IDP 2.0 (SHAAST RA 2020)	Innovation	Innovation Contest	IIT Madras	Educational Institute	03-01-2020 00:00:00	06-01-2020 00:00:00	4	54	3	57	Yes	First and Second	Caterpillar IDP 2.0	No	Award / Position / Recognition Secured	First and Second	Title of Innovation / Start-up Secured the Award / Recognition	Caterpillar IDP 2.0	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**

5	Bajaj Robotics Challenge (SHAASRA 2020)	Innovation	Innovation Contest	IIT Madras	Educational Institute	05-01-2020 00:00:00	05-01-2020 00:00:00	1	39	3	42	Yes	First and Second	Bajaj Robotics Challenge	No	Award / Position / Recognition Secured	First and Second	Title of Innovation / Start-up Secured the Award / Recognition	Bajaj Robotics Challenge	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
6	Finathlon 2020	Innovation	B-Plan Competitions	Indian Institute of Management (IIM), Bangalore	Educational Institute	20-01-2020 00:00:00	25-01-2020 00:00:00	6	1632	5	1637	Yes	Third	Finathlon	No	Award / Position / Recognition Secured	Third	Title of Innovation / Start-up Secured the Award / Recognition	Finathlon	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
7	Boeing National Aeromodelling Competition (SHAASRA 2020)	Innovation	Innovation Contest	IIT Madras	Educational Institute	05-01-2020 00:00:00	06-01-2020 00:00:00	2	90	30	120	Yes	Finalist	Boeing National Aeromodelling	No	Award / Position / Recognition Secured	Finalist	Title of Innovation / Start-up Secured the Award / Recognition	Boeing National Aeromodelling	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	The Professional Entrepreneur	IPR	Elective/Core Credit Course	Credit Course (Elective)	Humanities and Social Sciences	01-08-2019	27-11-2019	119	Offline	10	36

2	Intellectual Property Rights	IPR	Elective/Core Credit Course	Credit Course (Elective)	Metallurgical and Materials Engineering	01-01-2020	23-04-2020	114	Offline	125	40
3	Knowledge Management and Innovation	IPR, Innovation	Elective/Core Credit Course	Credit Course (Elective)	Management Studies	01-08-2019	25-11-2019	117	Offline	11	34
4	Entrepreneurship Development	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Electrical and Electronics Engineering	01-08-2019	17-12-2019	139	Offline	31	36
5	ENTREPRENEURSHIP DEVELOPMENT	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Humanities and Social Sciences	01-01-2020	15-04-2020	106	Offline	34	36
6	BUSINESS AND ENTREPRENEURSHIP FOR ENGINEERS	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Metallurgy and Materials Engg	01-08-2019	17-12-2019	139	Offline	23	37
7	Intellectual property rights Technology Development and Startup	IPR, Entrepreneurship/Startup, Innovation	Short term Course	Short Term Certificate Course	IPR Cell	09-12-2019	13-12-2019	5	Offline	72	40

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

Srno	Title of the Training Program	Program Theme	Type of Course	Course Offering Department/Centre/ Unit Name	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Numbers of Participants	Total Numbers of Contact Hours of Course ( Minimum 30 Contact hours)
1	Mechatronics System to the students of Indian Institute of Information Technology Tiruchirappalli	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	08-04-2019	17-04-2019	10	Online	8	80
2	Empowering Teachers in 21st Century Education	Innovation	FDP in I&E / IPR	Dept of HSS	29-04-2019	03-05-2019	5	Online	24	40
3	Recent Advances in Solar Energy Technologies for Sustainable Development	Innovation	MDP in I&E / IPR	Dept Mechanical Engg	29-04-2019	11-05-2019	13	Online	23	104
4	Solar Photovoltaic System Design and MPPT implementation	IPR	MDP in I&E / IPR	Dept of EEE	15-05-2019	19-05-2019	5	Online	76	40
5	Mechatronics System to the students of Indian National Institute of Technology Calicut Kerala	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	22-05-2019	29-05-2019	8	Online	1	40
6	LV Switch Gear products Distribution Panel LVS-WPD	IPR	MDP in I&E / IPR	Siemens CoE in Manufacturing	23-05-2019	27-05-2019	5	Online	10	40
7	Speech and Language Processing	Innovation	MDP in I&E / IPR	Dept of CA	27-05-2019	31-05-2019	5	Online	44	40
8	a BHEL E-Bus project involving Design Validation of 12m Electric Bus components using NX CAD and Nastran to the students of National Institute of Technology Tiruchirappalli	Innovation	EDP in I&E / IPR	Siemens CoE in Manufacturing	20-05-2019	28-06-2019	40	Online	8	320
9	Process Optimization and Control	Innovation	MDP in I&E / IPR	Dept of ICE Chemical Engg	03-06-2019	07-06-2019	5	Online	35	40



10	Robotics Advanced Manufacturing CNC Machines Controller Automation and Mechatronics	IPR	MDP in I&E / IPR	Siemens CoE in Manufacturing	10-06-2019	10-07-2019	31	Online	6	248
11	BIOENERGY BIOFUELS and BIOREFINING	Innovation	MDP in I&E / IPR	Dept of Chemical Engg	10-06-2019	15-06-2019	6	Online	25	48
12	Design and Analysis of Mechanical Systems (DAMS)	Innovation	MDP in I&E / IPR	Dept Mechanical Engg	10-06-2019	15-06-2019	6	Online	36	48
13	Forensic Engineering and Failure Analysis	Innovation	MDP in I&E / IPR	Dept of CE	10-06-2019	21-06-2019	12	Online	38	96
14	IoT	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	19-06-2019	25-06-2019	7	Online	10	56
15	NX CAD Beginner	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	24-06-2019	28-06-2019	5	Online	16	40
16	Test Lab Structures Rotating Machineries	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	24-06-2019	28-06-2019	5	Online	11	40
17	Emerging Power Conversion Techniques and Challenges for Renewable Energy and Electric Vehicle Applications	Innovation	MDP in I&E / IPR	Dept of EEE	24-06-2019	28-06-2019	5	Online	43	40
18	IoT	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	26-06-2019	30-06-2019	5	Online	33	40
19	Mechatronics System	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	05-07-2019	11-07-2019	7	Online	9	56
20	Basics of Automation	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	05-07-2019	11-07-2019	7	Online	10	56
21	Application of soft computing tools in disaster modelling	Innovation	MDP in I&E / IPR	Dept of CE	29-07-2019	02-08-2019	5	Online	39	40
22	Programming Automation system for Filling Caping unit of Beverage Industry by using Siemens S7 - 1200 PLC to the	IPR	MDP in I&E / IPR	Siemens CoE in Manufacturing	30-07-2019	03-08-2019	5	Online	10	40
23	Robotics Advanced Manufacturing CNC Machines Controller Automation Product Design and validation Structures Rotating Machineries Process Instrumentation Electrical and Energy Saving and Mechatronics	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	20-07-2019	08-08-2019	20	Online	5	160
24	Industrial Process Automation	Innovation	MDP in I&E / IPR	Dept of ICE Production Engg	02-08-2019	08-08-2019	7	Online	45	56
25	Modern Techniques for Wireless Communication Networks and Signal Processing	Innovation	MDP in I&E / IPR	Dept of ICE ECE	19-08-2019	23-08-2019	5	Online	244	40
26	NX CAD Beginner NX Sheet Metal to the student of National Institute of Technology Trichy	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	19-09-2019	03-10-2019	15	Online	31	120
27	Basic human and basic robot simulation NX CAD Beginner Mechatronics system Basics of Automation and IoT	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	09-09-2019	15-12-2019	98	Online	41	784

28	Advanced Tools and Techniques for Research in Engineering Problems	Innovation	MDP in I&E / IPR	Dept of Production and Mechanical Engg	18-11-2019	23-12-2019	36	Online	56	368
29	NX CAD Intermediate	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	18-11-2019	23-11-2019	6	Online	8	48
30	IoT	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	25-11-2019	30-11-2019	6	Online	7	48
31	IoT	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	02-12-2019	07-12-2019	6	Online	8	48
32	Basic of Automation	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	02-12-2019	07-12-2019	6	Online	9	48
33	Industrial Robot Programming	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	06-12-2019	10-12-2019	5	Online	7	40
34	Basics of Automation to the students of National Institute of Technology Tiruchirappalli	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	09-12-2019	13-12-2019	5	Online	6	40
35	IoT	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	09-12-2019	13-12-2019	5	Online	7	40
36	Basics of Process Instrumentation	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	02-12-2019	07-12-2019	6	Online	10	48
37	Robotics to the student of Sathyabama Institute of Science and Technology Chennai	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	16-12-2019	20-12-2019	5	Online	6	40
38	CNC Certification Program	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	16-12-2019	20-12-2019	5	Online	10	40
39	IoT	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	16-12-2019	20-12-2019	5	Online	7	40
40	CNC Certification Program	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	16-12-2019	20-12-2019	5	Online	7	40
41	IoT Automation Test and Optimization Process Instrumentation of NIT Trichy	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	23-12-2019	31-12-2019	9	Online	5	72
42	Basic of Automation	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	06-01-2020	10-01-2020	5	Online	15	40
43	Basics of Automation	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	20-01-2020	24-01-2020	5	Online	8	40
44	NX CAD	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	11-02-2020	15-02-2020	5	Online	4	40
45	IoT	Innovation	MDP in I&E / IPR	Siemens CoE in Manufacturing	24-02-2020	28-02-2020	5	Online	8	40
46	Perspectives of Teaching and Learning of Engineering Sciences for Outcome-based Education	Innovation	FDP in I&E / IPR	Dept of EEE	15-06-2020	20-06-2020	6	Online	81	48
47	Tools Training Workshop Phase I	Entrepreneurship/Startup	Employment Generation Training Programs	SCIENT	16-09-2019	20-09-2019	5	Offline	40	40
48	Tools Training Workshop Phase II	Entrepreneurship/Startup	Employment Generation Training Programs	SCIENT	07-10-2019	11-10-2019	5	Offline	40	40

49	MDP on Talent Management and Career Progression-1	Innovation	MDP in I&E / IPR	Department of Management Studies	16-12-2019	20-12-2019	5	Offline	31	40
50	MDP on Talent Management and Career Progression-2	Innovation	MDP in I&E / IPR	DoMS	23-12-2019	27-12-2019	5	Offline	33	40
51	MDP on Talent Management and Career Progression-3	Innovation	MDP in I&E / IPR	DoMS	30-12-2019	03-01-2020	5	Offline	30	40
52	MDP on Talent Management and Career Progression-4	Innovation	MDP in I&E / IPR	DoMS	06-01-2020	10-01-2020	5	Offline	32	40
53	MDP on Talent Management and Career Progression-5	Innovation	MDP in I&E / IPR	DoMS	13-01-2020	17-01-2020	5	Offline	32	40
54	MDP on Talent Management and Career Progression-6	Innovation	MDP in I&E / IPR	DoMS	20-01-2020	24-01-2020	5	Offline	31	40
55	MDP on Talent Management and Career Progression-7	Innovation	MDP in I&E / IPR	DoMS	27-01-2020	31-01-2020	5	Offline	33	40
56	MDP on Talent Management and Career Progression-8	Innovation	MDP in I&E / IPR	DoMS	03-02-2020	07-02-2020	5	Offline	31	40
57	MDP on Talent Management and Career Progression-9	Innovation	MDP in I&E / IPR	DoMS	10-02-2020	14-02-2020	5	Offline	33	40
58	MDP on Talent Management and Career Progression-10	Innovation	MDP in I&E / IPR	DoMS	17-02-2020	21-02-2020	5	Offline	33	40
59	MDP on Talent Management and Career Progression-11	Innovation	MDP in I&E / IPR	DoMS	24-02-2020	28-02-2020	5	Offline	32	40

**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.Ruben Sudhakar D	Energy and Environment	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>
	IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell	IPR, Entrepreneurship/Startup, Innovation	Short term Certificate	IIC, MHRD, New Delhi	Govt. Agency (Central)	28-04-2020 00:00:00	22-05-2020 00:00:00	25	Online

**Section 3 > i : List Idea/Innovation Centric Student Clubs Are Functional at the HEI with Access to Co-working Space/Work-stations for Students with Facilities & Equipment Available to promote and Support Innovation, Entrepreneurship and IPR Activities in Campus**

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
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1	Entrepreneurship Cell	Innovation Club	2005	Co-working Space,3D Printing	Incubation Unit,Innovation Labs, Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre	6	Aditya Rohan Narra	info@ecell-nitt.org	963367937
2	Robotics and Machines Intelligence	Innovation Club	2015	Co-working Space,3D Printing	Incubation Unit,Innovation Labs, Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre	10	Nitish Gudapati	111117036@nitt.edu	043125032
3	Spider	Innovation Club	2013	Co-working Space,Work Stations	Incubation Unit,Innovation Labs, Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre	7	Jack Samuel	111117040@nitt.edu	9791016018
4	Designer consortium	Innovation Club	2015	Co-working Space,3D Printing	Incubation Unit,Innovation Labs, Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre	11	Premkumar	dc.pdc.nitt@gmail.com	9842930002
5	Social Entrepreneurship Club	Startup Club	2018	Co-working Space,Work Stations	Incubation Unit,Innovation Labs, Centre of Excellence with Advance Tools,IPR Cell/Technology Transfer Centre	3	Sachin Johari	215118074@nitt.edu	9106856583

**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)**

**No Data Filled!**

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

1	Siemens CoE in Manufacturing	2018	Pre-Incubation, Incubation Unit, Innovation Labs, IPR Cell/Technology Transfer Centre, Student Clubs	Siemens AG and NIT Tiruchirappalli	Facility Incharge Name	Dr. D. Sriram Kumar	30	Yes	Yes		Yes	
					Facility Incharge Email	srk@nitt.edu			Total Annual Income from Training and Skill Development Services (In Rupees)	1750944		
					Facility Incharge Phone	94860 01131			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	80108		
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0		
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)			
-				-			-		1723400000			

**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	Center for Entrepreneurship Development and Incubation (CEDI)	2012	Innovation Labs, IPR Cell/Technology Transfer Centre, Student Clubs	Incubation SEED FUND, Idea mentoring, Startup	Facility Incharge Name	Dr. M. Umappa	7	No	Yes		Yes
					Facility Incharge Email	umappa@nitt.edu			Total Annual Income from Training and Skill Development Services (In Rupees)	0	
					Facility Incharge Phone	9443013136			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	24000	
									Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	34500	
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)		
2	SPACE TECHNOLOGY INCUBATION CENTRE	2019	Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	ISRO STIC	Facility Incharge Name	Dr. G. Uma	3	No	No		Yes
					Facility Incharge Email	guma@nitt.edu			Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)		
					Facility Incharge Phone	04312503359					
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)		
Funding Agency				ISRO			Govt. Agency (Central)		15974990		

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

No Data Filled!

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

Srno	Name of IPR Cell/Technology Transfer Centre Facility	Year of Establishment	IPR Cell/Technology Transfer Centre with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with IPR Cell/Technology Transfer Centre, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the IPR Cell/Technology Transfer Centre 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 IPR Cell/Technology Transfer Centre?	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation/Startup/Venture Development and implementation during the Financial Year 2019-20?
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**Section 3 > ii > e : List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

1	IPR Cell	2013	Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, Student Clubs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.S.M uthuku maran</td> </tr> <tr> <td>Facility Incharge Email</td> <td>smuthu@nitt.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94420 69381</td> </tr> </table>	Facility Incharge Name	Dr.S.M uthuku maran	Facility Incharge Email	smuthu@nitt.edu	Facility Incharge Phone	94420 69381	10	Yes	No	No
Facility Incharge Name	Dr.S.M uthuku maran														
Facility Incharge Email	smuthu@nitt.edu														
Facility Incharge Phone	94420 69381														

**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**

Srno	Name of the External Expert/Agency as Mentor	Mentor Expert Area	Type of Mentorship
1	Altacit Global	IPR Protection & Commercialization	Unstructured Mentorship
2	Dr.B.Shanmugasundaram	Idea/Innovation Development	Unstructured Mentorship
3	Shri.P.V.Kannan	Idea/Innovation Development	Unstructured Mentorship
4	Shri.Susilkumar	Entrepreneurship/Startup Development	Unstructured Mentorship
5	Shri.Annamalai	Entrepreneurship/Startup Development	Unstructured Mentorship
6	Shri.Aravindan	Idea/Innovation Development	Unstructured Mentorship
7	Shri.Renukaprasad	Entrepreneurship/Startup Development	Unstructured Mentorship
8	Shri.Sunilshah	Idea/Innovation Development	Unstructured Mentorship

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

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation/ Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation/ Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Converted into Venture/Startup/SME Unit during the financial period 2019-20	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019
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1	AIDVISION SOLUTION PVT LTD	Product Innovation	Technological	CEDI	Faculty	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	Yes	Grant Amount in Rs 300000	No	No
Name		Type			Gender		Email			Contact			
Dr. S. Domic		Faculty			Male		domic@nitt.edu			9994904763			
2	Thirumathi Kart	Product Innovation	Technological	Department of Science and Technology, Ministry of Science and Technology	Faculty	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	TRL 9 : Full commercial application, technology available for consumers.	Innovation Development Completed	No	No	Grant Amount in Rs 2720000	No	No
Name		Type			Gender		Email			Contact			
M. Sridevi		Faculty			Female		msridevi@nitt.edu			9894013610			
Name		Type			Gender		Email			Contact			
M. Brindha		Faculty			Female		brindham@nitt.edu			4312503218			
3	Low-cost street vacuum cleaner for Trichirappalli corporation	Product Innovation	Technological	Alumni of NIT Tiruchirappalli	Student-Faculty	TRL 9 : Full commercial application, technology available for consumers.	TRL 9 : Full commercial application, technology available for consumers.	Innovation Development Completed	No	No	Grant Amount in Rs 900000	No	No



Name		Type							Gender			Email		Contact
Designer Consortium, NIT Tiruchirappalli		Faculty and Student							Female			dc.pdc.nitt@gmail.com		9655527709
4	Solar Cooking System Manufacture	Service Innovation	Technological	CEDI	Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Dropped	No	No	No	No		No
	Name		Type							Gender			Email	
Dr.K.Pannirselvam		Faculty							Male			pannir@nitt.edu		9488059034
5	Trawello Healthcare	Service Innovation	Non-Technological / Social / Community Innovation	CEDI, NIT Tiruchirappalli	Alumni	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	No	No		No
	Name		Type							Gender			Email	
Mr. Shrinath		Alumni Entrepreneur							Male			shrinath@trawello.in		9902533255
6	Ramani Educational and Charity Trust	Service Innovation	Non-Technological / Social / Community Innovation	CEDI, NIT Tiruchirappalli	External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	No	No	No		No
	Name		Type							Gender			Email	

Name	Type	Gender	Email	Contact
G.Kowsalya	Incubatee Entrepreneur	Female	react3078@gmail.com	9965135399

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

Srno	Name of the Venture/Startup/SME Unit Established with the Support of HEI	Type of Innovation of Venture/Startup/SME Unit	Nature of Innovation	Name of the Pre-Incubation/Incubation Unit of HEI Supported Innovation Development	Venture Founded by	Venture Registered as	Year of Registration	What is the current status of Pre-Incubation/Incubation Support to Venture/Startup/SME Unit as on 31st March 2020?	Had the Venture Received any Recognition at State, National, International Level Programs 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 Venture establishment during the financial period 2019-20	Had the venture/startup 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 venture/startup for the pre-incubation/incubation support and the services offered by Pre-incubation or institute during the financial period 2019-20	Has the Start-up Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2019-20
1	AIDVISION SOLUTION PVT LTD	Product Innovation	Technological	1467	Faculty	Venture with Corporate Identification Number (CIN) Registration 00000000	2019-20	Received Incubation Support from Incubation Unit	No	Grant Amount in Rs 300000	No	No	No
Name		DIN number		Type		Gender		Email		Contact			
Dr S Dominic		8721755		Faculty		Male		domnic@nitt.edu		944290049			
2	Trawello Health Care Services(P). Ltd	Service Innovation	Technological	572	Alumni	Venture with Corporate Identification Number (CIN) Registration U74999KA2018PTC119378	2018-19	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact			
Mr. Shrinath		8302382		Alumni Entrepreneur		Male		shrinath@trawello.in		9902533255			

Mr. Dusmant Pati		8302382			Innovator/Entrepreneur External to Institute		Male		dusmant@trawello.in		6366109109	
3	Ramani Education and Charity Trust	Service Innovation	Non-Technological	572	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration 0000000	2019-20	Received Incubation Support from Incubation Unit	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact		
G.Kowsalya		00000		Incubatee Entrepreneur		Female		react3078@gamil.com		9965135399		

### 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	Society for Applied Microwave Electronics Engineering & Research (SAMEER), Chennai	Govt. Agency (Central)	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation, Mentoring	0	23-06-2020
2	NVIDIA Corporation, Bangalore	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation, Mentoring	2	23-06-2020
3	Indian Institute of Delhi (IIT Delhi)	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation, Mentoring	0	22-06-2020
4	Tamilnadu National Law University (TNLU), Trichy	Educational Institute	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation, Mentoring	0	16-08-2019
5	Texas Instruments India Private Limited (TI), Bangalore	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation, Mentoring	0	16-09-2019

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

<b>No Data Filled!</b>
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### 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	A mold for casting pervious concrete and method thereof	202041011873	National	2020 - 03	Uploaded
2	A Natural Fiber Processing Technique for Uniform GSM Fabrics	201941020952	National	2019 - 05	Uploaded
3	A Solid Waste Barrier Liner Composition for Landfill with Clay and Microsilica	201941043080	National	2019 - 10	Uploaded
4	An elastoplastic deformation processing, tool and method thereof	202041006504	National	2020 - 02	Uploaded
5	Biodiesel from non-edible semecarpus anacardium seed oil and method thereof	201941050564	National	2019 - 12	Uploaded

6	Double Shoulder Friction Stir Processing Tool for Coating Applications	201741041009	National	2019 - 05	Uploaded
7	Method for Extracting the I-V Curve of the Photovoltaic (PV) Module	201941037604	National	2019 - 09	Uploaded
8	Real-Time Digital Fault Monitoring System for Transmission Lines in Autonomous Power Grids and Method Thereof	201941022285	National	2019 - 06	Uploaded
9	Solar Reverse Thermoelectric Power Generation System and Method Thereof	201941021210	National	2019 - 05	Uploaded
10	Thermomagnetic temperature indicator and method thereof	202041005420	National	2020 - 02	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. MINI SHAJI THOMAS (Head of Institute) and Dr. RUBEN SUDHAKAR D (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

Dr. MINI SHAJI THOMAS

31.03.2021

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Prof. MINI SHAJI THOMAS  
Head of the Institution,  
Tiruchirappalli, Tamil Nadu

Nodal officer



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Dr. RUBEN SUDHAKAR D  
Nodal Officer,  
Tiruchirappalli, Tamil Nadu