



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: Thiagarajar College of Engineering [ARI-C-26794]

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	Civil Engineering	Academic Department with lab facility	Civil Engineering - Eco friendly structures	UG / PG / PhD	Technical	472	24	12
2	Mechanical Engineering	Academic Department with lab facility	Mechanical Engineering - Automation	UG / PG / PhD	Technical	429	25	27
3	Electrical and Electronics Engineering	Academic Department with lab facility	Electrical and Electronics Engineering - Power and Energy	UG / PG / PhD	Technical	492	25	19
4	Electronics and Communication Engineering	Academic Department with lab facility	Electronics and Communication Engineering - Wireless Communication	UG / PG / PhD	Technical	443	22	7
5	Computer Science and Engineering	Academic Department with lab facility	Computer Science and Engineering - Knowledge Engineering	UG / PG / PhD	Technical	431	21	8
6	Information Technology	Academic Department with lab facility	Information Technology - Data Analytics	UG / PG / PhD	Technical	407	21	6
7	Mechatronics	Academic Department with lab facility	Mechatronics - Internet of Things, Automotives	UG / PG / PhD	Technical	214	11	3
8	Architecture	Academic Department with lab facility	Architecture - Heritage	UG / PG / PhD	Technical	346	27	3
9	Computer Applications	Academic Department with lab facility	Computer Applications - Business Intelligence	UG / PG / PhD	Technical	93	4	2
10	Data science	Academic Department with lab facility	Data analytics	UG / PG / PhD	Technical	41	6	1
11	Mathematics and English	Academic Department with lab facility	Mathematics - Modeling	UG / PG / PhD	Technical	853	17	1

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

12	Physics	Academic Department with lab facility	Physics - Materials science	UG / PG / PhD	Technical	853	8	2
13	Chemistry	Academic Department with lab facility	Chemistry - Solid Waste Management and Materials for Energy	UG / PG / PhD	Technical	853	8	2
14	TCE - Technology Business Incubator	Incubation Unit	Information technology Enabled services, Advanced Materials and Manufacturing, Communication Systems, Automation and Internet of Things	At all level	Technical	53	2	1
15	Entrepreneurship Development Cell and EDII Hub	Pre-incubation unit	Entrepreneurship Development	UG / PG / PhD	Technical	530	11	0
16	TS Srinivasan Centre for Automotive research	Centre of Excellence with Advance Tools & Equipment	Product design, development and testing	UG / PG / PhD	Technical	250	20	5
17	Industry Institute Interface unit	Industry Institute Interface Unit	Students' Training, Placement and Industrial training, consultancy and testing services	UG / PG / PhD	Technical	1900	5	1
18	IPR Cell	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Intellectual property rights training and patent filing	UG / PG / PhD	Technical	350	2	1
19	Environmental Data Centre	Centre of Excellence with Advance Tools & Equipment	Solid Waste management	UG / PG / PhD	Technical	450	4	1
20	TIFAC - Centre for Relevance and Excellence	Centre of Excellence with Advance Tools & Equipment	Wireless Technologies	UG / PG / PhD	Technical	60	10	2

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

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	NO	Not Required
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	Program Theme	Program Type	Program Category	Organizing	Program Start	Program End Date	Program Duration(i)	Program Location	Internal Participa	Internal Participa	External Participa	External Participa	Total Number	Had institute spent expenses either from own	Did any of the participants received any awards/recognition
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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

	(Full Name)			Department / Centre / Student Body Name	Date		n Days)		nts (Student)	nts (Faculty)	nts (Student)	nts (Faculty)	of Participants	resource/received fund to organise the program/activity/event?	for startup / innovation ideas / research?							
1	Innovation and Entrepreneurship Development Program for Faculty in EDII hub and spoke institutions	Entrepreneurship/Startup	Skill development	Institute Lead Activity	Entrepreneurship Development and Innovation Institute HUB - TCE	16-09-2019 00:00:00	19-09-2019 00:00:00	4	Within Campus	0	6	0	26	32	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 94000	No						
2	Tamil Nadu Student Innovator (TNSI) Contest Orientation Program	Entrepreneurship/Startup	Orientation Session	Institute Lead Activity	Entrepreneurship Development and Innovation Institute HUB - TCE	08-01-2020 00:00:00	08-01-2020 00:00:00	1	Within Campus	53	6	29	4	92	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 31338	No						
3	Student E-Leader Workshop	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Entrepreneurship Development and Innovation Institute HUB - TCE	08-01-2020 00:00:00	09-01-2020 00:00:00	2	Within Campus	11	0	29	0	40	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 32630	No						
4	Tamil Nadu Student Innovator IDEATION CAMP	Entrepreneurship/Startup	Ideation	Institute Lead Activity	Entrepreneurship Development and Innovation Institute HUB - TCE	30-01-2020 00:00:00	31-01-2020 00:00:00	2	Within Campus	16	0	62	0	78	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 55105	No						
5	Tamil Nadu Student Innovator BOOT CAMP	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	Entrepreneurship Development and Innovation Institute HUB - TCE	06-02-2020 00:00:00	08-02-2020 00:00:00	3	Within Campus	19	0	56	0	75	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees) 100737	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>2 Ideas</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>1.Resilience Booster, 2.Garland machine</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	2 Ideas	Title of Innovation / Start-up Secured the Award / Recognition	1.Resilience Booster, 2.Garland machine	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	2 Ideas																					
Title of Innovation / Start-up Secured the Award / Recognition	1.Resilience Booster, 2.Garland machine																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					

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6	Tamil Nadu ILLam Innovator Challenge Contest	Entrepreneurship/Startup	Training	Institute Lead Activity	Entrepreneurship Development and Innovation Institute HUB - TCE	11-01-2020 00:00:00	12-01-2020 00:00:00	2	Outside Campus	6	0	263	0	269	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	35179	Award / Position / Recognition Secured	Tamil Nadu ILLam Innovator Award
																	Title of Innovation / Start-up Secured the Award / Recognition	Design for self covering of clothes during rainy season
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
7	Workshop on Lateral Thinking	IPR	Seminar	Institute Lead Activity	Intellectual Property Rights Cell	23-01-2020 00:00:00	23-01-2020 00:00:00	1	Within Campus	48	5	0	0	53	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	No	
8	Hands on Arduino Workshop	Innovation	Workshop	Institute Lead Activity	CDIO Maker space and EDC cell and TCE-TBI	31-01-2020 00:00:00	01-02-2020 00:00:00	2	Within Campus	50	5	0	0	55	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	18000	No	
9	Workshop on lateral thinking	IPR	Workshop	Institute Lead Activity	Intellectual Property Rights Cell TCE	24-01-2020 00:00:00	24-01-2020 00:00:00	1	Within Campus	48	5	0	0	53	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8000	No	
10	Workshop on Patentability	IPR	Workshop	Institute Lead Activity	Intellectual Property Rights Cell TCE	09-10-2019 00:00:00	09-10-2019 00:00:00	1	Within Campus	0	8	0	0	8	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	3000	No	
11	Discussion on patents and Research projects	IPR	Workshop	Institute Lead Activity	Intellectual Property Rights Cell TCE	10-10-2019 00:00:00	10-10-2019 00:00:00	1	Within Campus	0	8	0	0	8	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	2000	No	

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

12	Appathon	Innovation	Hackathon	Institute Lead Activity	Thiagarajar College of Engineering	10-01-2020 00:00:00	10-01-2020 00:00:00	1	Within Campus	150	0	0	0	150	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	7197	Award / Position / Recognition Secured	Cash Prize for Top 3 Innovators
																Title of Innovation / Start-up Secured the Award / Recognition	Atoms Mini - Creation of website and Mobile app development for Madurai Parliamentary Constituency	
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
13	One credit course on "14CE1E0--Precast Technology in Buildings" on 13-14 April 2019	Innovation	Training	Institute Lead Activity	Department of Civil Engineering	13-04-2019 00:00:00	14-04-2019 00:00:00	2	Within Campus	47	1	0	0	48	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	14748	No	
14	One credit course	Entrepreneurship/Startup	Workshop	Institute Lead Activity	IT	29-02-2020 00:00:00	01-03-2020 00:00:00	2	Within Campus	42	0	0	0	42	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	14030	No	
15	One credit course on "14ITV0-Building Scalable Applications with Microservices"	Innovation	Workshop	Institute Lead Activity	IT	22-02-2020 00:00:00	23-03-2020 00:00:00	31	Within Campus	13	1	0	0	14	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15495	No	
16	The guest lecture program on "Unbiased Machine Learning"	Innovation	Training	Institute Lead Activity	IT	20-01-2020 00:00:00	21-01-2020 00:00:00	2	Within Campus	17	1	0	0	18	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000	No	

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

17	3 days FDP on "Industrial robot programming for collaborative applications"	Entrepreneurship/Startup	Workshop	Institute Lead Activity	IT	11-12-2019 00:00:00	13-12-2019 00:00:00	3	Within Campus	24	2	0	0	26	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	38000	No
18	Pre-certification face-to-face workshop on building Innovation for international educators	Innovation	Workshop	Institute Lead Activity	Indo Universal Collaboration for Engineering Education - TCE Hub	01-04-2019 00:00:00	03-04-2019 00:00:00	3	Within Campus	0	30	0	0	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	67000	No
19	one-day workshop on "Product Design"	Innovation	Workshop	Institute Lead Activity	TCE-Indo Universal Collaboration for Engineering Education hub	19-10-2019 00:00:00	19-10-2019 00:00:00	1	Within Campus	0	30	0	0	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
20	Workshop on Professional Skills and Engineering Ethics	Innovation	Workshop	Institute Lead Activity	Indo Universal Collaboration for Engineering Education - TCE hub	18-11-2019 00:00:00	18-11-2019 00:00:00	1	Within Campus	0	30	0	0	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	28500	No
21	Workshop on Design of Experiments and Engineering Education Research	Innovation	Workshop	Institute Lead Activity	Indo Universal Collaboration for Engineering Education	18-11-2019 00:00:00	18-11-2019 00:00:00	1	Within Campus	0	30	0	0	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	14000	No
22	Workshop on Project-Based Learning and Professional Skills in curriculum	Innovation	Workshop	Institute Lead Activity	Indo Universal Collaboration for Engineering Education - TCE Hub	19-11-2019 00:00:00	19-11-2019 00:00:00	1	Within Campus	0	30	0	0	30	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	14000	No

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

23	TCE-HBTU Hackathon	Innovation	Hackathon	Institute Lead Activity	Department of Information Technology, TCE and Harcourt Butler technological University	27-01-2020 00:00:00	28-01-2020 00:00:00	2	Within Campus	105	5	110	4	224	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	63048	Award / Position / Recognition Secured	Three Prizes for Innovative solutions	
																	Title of Innovation / Start-up Secured the Award / Recognition	Sensor for solid waste management	
																	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	RESFEST 2019, Vietnam	Innovation	Hackathon	Vietnam	Educational Institute	15-08-2019 00:00:00	15-08-2019 00:00:00	1	1	4	5	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	153823	No	
2	innoWAH 2019	Innovation	Hackathon	Tamil Nadu PALS Association	Educational Institute	26-02-2020 00:00:00	26-02-2020 00:00:00	1	1	20	21	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	6000	No	
3	Enduro Student India 2020 Contest	Innovation	Innovation Contest	Enduro Student India	Non-Govt. Agencies	07-02-2020 00:00:00	10-02-2020 00:00:00	4	8	1	9	Yes	19th position in India	Cash prize for Better Design and Endurance	Total Expense Amount Incurred by Institute? (In Rupees)	280000	Award / Position / Recognition Secured	19th position in India
																	Title of Innovation / Start-up Secured the Award / Recognition	Cash prize for Better Design and Endurance
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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

4	SAE Baja 2020 main Event	Innovation	Innovation Contest	Society for Automobile Engineers	Non-Govt. Agencies	22-01-2020 00:00:00	26-01-2020 00:00:00	5	8	2	10	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	300000	No	
5	Bharath Formula Karting	Innovation	Innovation Contest	CADD Technologies - School of Design Pvt. Ltd	Corporate / Industry Association	31-07-2019 00:00:00	31-07-2019 00:00:00	1	5	1	6	Yes	3rd Position out of 69 teams	Best Design and Validation award	Total Expense Amount Incurred by Institute? (In Rupees)	30000	Award / Position / Recognition Secured	3rd Position out of 69 teams
																	Title of Innovation / Start-up Secured the Award / Recognition	Best Design and Validation award
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
6	Go Kart Design Challenge	Innovation	Innovation Contest	Society of Mechanical and Automotive Engineers	Corporate / Industry Association	10-02-2020 00:00:00	14-02-2020 00:00:00	5	8	1	9	Yes	1st price	Best design in 130 cc category	Total Expense Amount Incurred by Institute? (In Rupees)	28000	Award / Position / Recognition Secured	1st price
																	Title of Innovation / Start-up Secured the Award / Recognition	Best design in 130 cc category
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
7	Manipal Hackathon	Innovation	Hackathon	Manipal Institute of Technology (MIT), Manipal	Educational Institute	11-10-2019 00:00:00	12-10-2019 00:00:00	2	12	1	13	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	39000	No	
8	IITM Research Park Visit - PALS	Entrepreneurship/Startup	Exposure visit	IITM Research park	Educational Institute	19-09-2019 00:00:00	20-09-2019 00:00:00	2	9	1	10	No	---	---	Total Expense Amount Incurred by Institute? (In Rupees)	19000	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

9	International Conference on Industry 4.0 and Advanced Manufacturing	Innovation	Workshop	Indian Institute of Science	Educational Institute	28-06-2019 00:00:00	29-06-2019 00:00:00	2	23	1	24	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	7693	No
10	Advances in Robotics (AIR-2019) conference	Innovation	Workshop	IIT	Educational Institute	02-07-2019 00:00:00	05-07-2019 00:00:00	4	15	1	16	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	13538	No
11	IUCEE Leadership Summit 2019	Entrepreneurship/Startup	Workshop	International Center	Educational Institute	11-07-2019 00:00:00	13-07-2019 00:00:00	3	19	2	21	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	53129	No
12	Two days workshop on IUCEE - EPICS	Entrepreneurship/Startup	Training	CMR College of Engineering and Tech	Educational Institute	30-10-2019 00:00:00	31-10-2019 00:00:00	2	21	3	24	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	34111	No
13	National Workshop on Blockchain and Smart Contract Technologies	Innovation	Training	NIT	Educational Institute	08-11-2019 00:00:00	10-11-2019 00:00:00	3	16	1	17	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	4090	No
14	Two day International Conference Smart City Concepts Opportunities and Challenges	Entrepreneurship/Startup	Workshop	Courtyard by Marriott	Corporate / Industry Association	12-11-2019 00:00:00	13-11-2019 00:00:00	2	23	3	26	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	23750	No
15	Three days Indo-US workshop on Metal Additive Manufacturing - Technology Gaps and Research Directions	Entrepreneurship/Startup	Training	PSG Institute	Educational Institute	16-12-2019 00:00:00	18-12-2019 00:00:00	3	17	1	18	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	10486	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

16	Industrial visit to TVS Motor Company Limited	Innovation	Exposure visit	TVS Motor Company Limited	Corporate / Industry Association	17-12-2019 00:00:00	17-12-2019 00:00:00	1	24	8	32	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	21278	No						
17	Dynafusion-Automotive Testing Expo 2020	Innovation	Workshop	Automotive Testing Expo	Corporate / Industry Association	24-01-2020 00:00:00	24-01-2020 00:00:00	1	20	2	22	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	9242	No						
18	Indo Universal Collaboration for Engineering Education - EPICS Innovation Contest	Innovation	Innovation Contest	Indo Universal Collaboration for Engineering Education	Non-Govt. Agencies	08-01-2020 00:00:00	09-01-2020 00:00:00	2	8	2	10	Yes	Winner	Automatic Match Stick Marshall	Total Total Expense Amount Incurred by Institute? (In Rupees)	119000	<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>Automatic Match Stick Marshall</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	Automatic Match Stick Marshall	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Winner																						
Title of Innovation / Start-up Secured the Award / Recognition	Automatic Match Stick Marshall																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
19	Design Thinking Course in collaboration with IUCEE and Purdue University	Innovation	Training	Indo Universal Collaboration for Engineering Education and Purdue University	International Agencies	02-12-2019 00:00:00	31-03-2020 00:00:00	12	0	14	14	Yes	Distinction	Distinction in Design thinking course	Total Total Expense Amount Incurred by Institute? (In Rupees)	3500	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Distinction</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Distinction in Design thinking course</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Distinction	Title of Innovation / Start-up Secured the Award / Recognition	Distinction in Design thinking course	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Distinction																						
Title of Innovation / Start-up Secured the Award / Recognition	Distinction in Design thinking course																						
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

20	IIT Pals Innovawah Flnals	Entrepreneurship/Startup	Innovation Contest	IIT Pals	Non-Govt. Agencies	26-02-2020 00:00:00	26-02-2020 00:00:00	1	5	1	6	Yes	Rs.5000 cash prize for being finalist	A novel energy efficient cost effective air compressor for cold storage for farm produce	Total Total Expense Amount Incurred by Institute? (In Rupees)	20000	Award / Position / Recognition Secured	Rs.5000 cash prize for being finalist	
																	Title of Innovation / Start-up Secured the Award / Recognition	A novel energy efficient cost effective air compressor for cold storage for farm produce	
																	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	Foundational course on Entrepreneurship Development	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	Civil Engineering and Entrepreneurship Development Cell	19-06-2019	30-10-2019	134	Offline	35	40
2	Research Methodology and IPR for Communication Engineers	IPR	Elective/Core Credit Course	Credit Course (Compulsory)	Intellectual Property right Cell	20-12-2019	22-04-2020	125	Offline	16	30
3	Certificate course on Effective patent search and drafting - PATDRAFT 2019	IPR	Short term Course	Short Term Certificate Course	Intellectual Property Rights Cell	25-11-2019	29-11-2019	5	Offline	45	40
4	Engineering Exploration and Lateral Thinking	Innovation	Elective/Core Credit Course	Credit Course (Compulsory)	TCE IUCEE Hub and TCE Teaching Learning Centre	25-07-2019	04-11-2019	103	Offline	800	40
5	Design Thinking and Project Management	Innovation	Elective/Core Credit Course	Credit Course (Compulsory)	TCE-Teaching learning Centre and TCE-IUCEE Hub	20-12-2019	06-04-2020	109	Offline	800	30
6	System Thinking and Engineering Design Project	Innovation	Elective/Core Credit Course	Credit Course (Compulsory)	TCE-Teaching Learning centre and TCE- IUCEE Hub	20-12-2019	06-04-2020	109	Offline	800	30

7	Capstone Design Project	Innovation	Elective/Core Credit Course	Credit Course (Compulsory)	TCE - Teaching learning Centre and TCE- IUCEE Hub	06-06-2019	25-10-2019	142	Offline	800	30
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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	Tamil Nadu Student innovator Orientation and E-leader Program	Entrepreneurship/Startup	EDP in I&E / IPR	Entrepreneurship Development and Innovation Institute - Hub	07-01-2020	10-01-2020	4	Offline	40	30
2	Faculty Development Program	Entrepreneurship/Startup	FDP in I&E / IPR	Entrepreneurship Development And Innovation institute hub institute	16-09-2020	19-09-2020	4	Offline	34	30

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

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.S.Chandran	Entrepreneurship Development Cell	Associate Dean (Entrepreneurship)	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Faculty Development Program	Entrepreneurship/Startup	FDP in I&E, IPR	Entrepreneurship Development and Innovation Institute	Govt. Agency (State)	16-09-2019 00:00:00	19-09-2019 00:00:00	4	Offline
2	Dr.S.Balaji	Entrepreneurship Development cell	College level Coordinator	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Faculty Development Program	Entrepreneurship/Startup	FDP in I&E, IPR	Entrepreneurship Development and Innovation Institute	Govt. Agency (State)	16-04-2019 00:00:00	19-04-2019 00:00:00	4	Offline
3	Dr.A.Emil Selvan	Computer science and Engineering	Assistant Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Faculty Development Program	Entrepreneurship/Startup	FDP in I&E, IPR	Entrepreneurship Development and Innovation Institute	Govt. Agency (State)	16-09-2019 00:00:00	19-09-2019 00:00:00	4	Offline
4	Dr.K.Hariharan	Electronics and Communication Engg	Associate Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Faculty Development Program	Entrepreneurship/Startup	FDP in I&E, IPR	Entrepreneurship Development and Innovation Institute	Govt. Agency (State)	16-09-2019 00:00:00	19-09-2019 00:00:00	4	Offline

5	Ms.Nisha Angeline	Information Technology	Assistant Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Faculty Development Program	Entrepreneurship/Startup	EDP in I&E, IPR	Entrepreneurship Development and Innovation Institute	Govt. Agency (State)	16-09-2019 00:00:00	19-09-2019 00:00:00	4	Offline
6	Dr.B.Sathya Bama	Intellectual Property Cell	College level Coordinator	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
	Certificate course on Effective patent search and drafting - PATDRAFT 2019	IPR	Short term Certificate	Anna University	Educational Institute	25-11-2019 00:00:00	29-11-2019 00:00:00	5	Offline
7	Dr.B.Yogameena	Department of Electronics and Communication	Associate Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
8	Dr.MSK.Manikandan	Department of electronics and Communication Engg	Associate Professor	No	Yes				
	Training Name	Training Theme	Type of Course	Training Agency Name	Training Agency Type	Training Start Date	Training End Date	Training Duration (in Days)	Mode of Delivery
9	Dr.V.Abhaikumar	Electronics and Communication Engineering	Principal	No	No				

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

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	Entrepreneurship Development Cell	Startup Club	2010	3D Printing	Pre-Incubation Unit	10	Ms.Srinidhi	srinidhi59128@student.tce.edu	9080234301
2	TCE- CDIO Maker Space	Innovation Club	2019	3D Printing	Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	2	Mr.A.N.Subbiah	subbiah@student.tce.edu	9597708197
3	Society for Automobile Engineers - Baja	Innovation Club	2010	Work Stations	Incubation Unit, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	5	Mr.S .Arunkumar	arun98tce@gmail.com	9442071736

4	Robotics Club	Innovation Club	2010	Work Stations	Incubation Unit, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	5	Mr. Shyam Sundar	shyamsundar@student.tce.edu	7538835502
5	E-Vehicle Club	Innovation Club	2019	Work Stations	Incubation Unit, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	1	Mr. D. Shyamsundar	Shyamsundar@student.tce.edu	7538835502

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)

Smo	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?
							Facility Incharge Name	Facility Incharge Email			Yes		
1	TCE- CDIO Maker Space	Maker's Space	2019	Co-working Space, 3D Printing & Prototype Equipment, Work Stations	Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Facility Incharge Name	Dr. S. Balaji	12	Yes	Total Annual Income from Training and Skill Development Services (In Rupees)	16000	Yes
							Facility Incharge Email	sbalaji@tce.edu			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	
							Facility Incharge Phone	9788869535			Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	

Section 3 > ii > a : List the Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Centre/Startup Cell) (>= 600 Sq. Ft. Floor Area)

Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)											
Institute's Own Fund / Resource		Thiagarajar College of Engineering		Educational Institute		370279											
2	Prime Minister Yuva Yojana Office	EDC	2018	Co-working Space	Innovation Labs, Innovation Park/Research Park, IPR Cell/Technology Transfer Centre, Student Clubs	Innovation Labs, Innovation Park/Research Park, IPR Cell/Technology Transfer Centre, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.S.Chandran</td> </tr> <tr> <td>Facility Incharge Email</td> <td>deanind@tce.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9444108500</td> </tr> </table>	Facility Incharge Name	Dr.S.Chandran	Facility Incharge Email	deanind@tce.edu	Facility Incharge Phone	9444108500	3	No	No	Yes
Facility Incharge Name	Dr.S.Chandran																
Facility Incharge Email	deanind@tce.edu																
Facility Incharge Phone	9444108500																
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		Ministry of Skill Development and Entrepreneurship		Govt. Agency (Central)		147050											
3	TCE Data Centre	Design Centre	2003	Work Stations	Incubation Unit, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	Incubation Unit, Innovation Park/Research Park, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.S.Mercy Shalinee</td> </tr> <tr> <td>Facility Incharge Email</td> <td>principal@tce.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>7540078734</td> </tr> </table>	Facility Incharge Name	Dr.S.Mercy Shalinee	Facility Incharge Email	principal@tce.edu	Facility Incharge Phone	7540078734	5	No	No	Yes
Facility Incharge Name	Dr.S.Mercy Shalinee																
Facility Incharge Email	principal@tce.edu																
Facility Incharge Phone	7540078734																
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		Thiagarajar College of Engineering		Educational Institute		6000000											
4	Automobile Development Centre	Tinkering Lab	2010	Work Stations	Incubation Unit, Innovation Labs, IPR Cell/Technology Transfer Centre, Student Clubs	Incubation Unit, Innovation Labs, IPR Cell/Technology Transfer Centre, Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.B.Karthikeyan</td> </tr> <tr> <td>Facility Incharge Email</td> <td>bkmec h@tce.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9443421659</td> </tr> </table>	Facility Incharge Name	Dr.B.Karthikeyan	Facility Incharge Email	bkmec h@tce.edu	Facility Incharge Phone	9443421659	5	Yes	No	Yes
Facility Incharge Name	Dr.B.Karthikeyan																
Facility Incharge Email	bkmec h@tce.edu																
Facility Incharge Phone	9443421659																

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

Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)																	
Funding Agency		TVS Motor Company Ltd		Corporate / Industry Association		90000000																	
3	Environmental Information system	2018	Incubation Unit, Innovation Park/Research Park, IPR Cell/Technology Transfer Centre	Resource Partner in Plastic Waste Management for ENVIS scheme under Ministry of Environment, Forest and Climatic change	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.R.V asudevan</td> </tr> <tr> <td>Facility Incharge Email</td> <td>deane ca@tce.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94864 86728</td> </tr> </table>	Facility Incharge Name	Dr.R.V asudevan	Facility Incharge Email	deane ca@tce.edu	Facility Incharge Phone	94864 86728	5	No	<table border="1"> <thead> <tr> <th colspan="2">Yes</th> </tr> </thead> <tbody> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>655000</td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td>2859070</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>0</td> </tr> </tbody> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	655000	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	2859070	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	Yes
Facility Incharge Name	Dr.R.V asudevan																						
Facility Incharge Email	deane ca@tce.edu																						
Facility Incharge Phone	94864 86728																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)	655000																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	2859070																						
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)																	
Funding Agency		Ministry of Forest, Environment and Climatic change		Govt. Agency (Central)		15000000																	
4	Centre for excellence in Materials technology	2006	Incubation Unit, Innovation Labs, IPR Cell/Technology Transfer Centre, Student Clubs	Industry supported funding (Titan Company Limited, Venus Home Appliances)	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.S.B alaji</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sbalaji @tce.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>97888 69535</td> </tr> </table>	Facility Incharge Name	Dr.S.B alaji	Facility Incharge Email	sbalaji @tce.edu	Facility Incharge Phone	97888 69535	4	No	<table border="1"> <thead> <tr> <th colspan="2">Yes</th> </tr> </thead> <tbody> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td>250000</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>0</td> </tr> </tbody> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	0	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	250000	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	Yes
Facility Incharge Name	Dr.S.B alaji																						
Facility Incharge Email	sbalaji @tce.edu																						
Facility Incharge Phone	97888 69535																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)	0																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	250000																						
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0																						

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

Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)	
Funding Agency		Department of Science and technology		Govt. Agency (Central)		13750000	
Funding Agency		Defence Research and Development Organization		Govt. Agency (Central)		4300000	
Funding Agency		University Grants Commission		Govt. Agency (Central)		515000	

5	Centre for Robotics	2019	Pre-Incubation, Incubation Unit, Innovation Labs, IPR Cell/Technology Transfer Centre, Student Clubs	Management Funding	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.M.P alanina tharaja</td> </tr> <tr> <td>Facility Incharge Email</td> <td>deanpad@tce.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>98940 94155</td> </tr> </table>	Facility Incharge Name	Dr.M.P alanina tharaja	Facility Incharge Email	deanpad@tce.edu	Facility Incharge Phone	98940 94155	5	Yes	No	Yes
Facility Incharge Name	Dr.M.P alanina tharaja														
Facility Incharge Email	deanpad@tce.edu														
Facility Incharge Phone	98940 94155														

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		Thiagarajar College of Engineering		Educational Institute		7400000	

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 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?													
								Yes	No														
1	Thiagarajar College of Engineering - Technology Business Incubator (TCE- TBI)	2015	Pre-Incubation, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs	Innovation Voucher Program, Entrepreneurship Development and Innovation Institute	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.V.A bhaikumar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>ceotbi@tce.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>99524 23335</td> </tr> </table>	Facility Incharge Name	Dr.V.A bhaikumar	Facility Incharge Email	ceotbi@tce.edu	Facility Incharge Phone	99524 23335	4	Yes	<table border="1"> <thead> <tr> <th colspan="2">Yes</th> </tr> </thead> <tbody> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td>104955</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>1079180</td> </tr> </tbody> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	0	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	104955	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	1079180	Yes
Facility Incharge Name	Dr.V.A bhaikumar																						
Facility Incharge Email	ceotbi@tce.edu																						
Facility Incharge Phone	99524 23335																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)	0																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	104955																						
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	1079180																						

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

Source of Grant / Fund	Agency Name	Agency Type	Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)
Funding Agency	Department of Science and technology	Govt. Agency (Central)	14655000

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

Srno	Name of Innovation Park/Research Park Facility	Year of Establishment	Innovation Park / Research Park with Access to Other I & E Facilities at the HEI	Name of the Funding Schemes Available with Research/Innovation Park, if any (Optional)	Facility Details		Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Research Park/Innovation Park Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by Research Park/Innovation Park?		Had the Research Park/Innovation Park Provided any Funding Support for Idea/Prototype/Innovation/Start up/Venture Development and implementation during the Financial Year 2019-20?		
					Facility Incharge Name	Facility Incharge Email			Facility Incharge Phone	Yes		No	
1	Thiagarajar Advanced Research Centre	2005	Incubation Unit, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre, Student Clubs		Dr.V.A bhaikumar	director@tce.edu	9952423335	8	Yes	0	1250000	150000	No

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/Start up/Venture Development and implementation during the Financial Year 2019-20?	
					Facility Incharge Name	Facility Incharge Email					Facility Incharge Phone
1	TCE - IPR Cell	2017	Pre-Incubation, Incubation Unit, Innovation Labs, Centre of Excellence with Advance Tools, Student Clubs		Dr.B.S athya Bama	sbece@tce.edu	9843394792	10	Yes	No	Yes

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

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	Management Funding	Educational Institute	893500

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.S.Chandran	Associate Dean (Entrepreneurship)	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Automatic Garland machine	Within		
2	Dr.S.Balaji	College level Coordinator	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Automatic garland machine	Within		
3	Dr.V.Abhaikumar	Director	Idea/Innovation Development,Entrepreneurship/Startup Development,IPR Protection & Commercialization	38
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Thiagarajar Telekom Solutions private limited		Within	
	Thiagarajar Extended Reality Pvt. Limited		Within	
	Development of Magneto Dielectric Substrates for Miniaturized Antennas		Within	
	Development of Electromagnetic Absorber paints and tiles		Within	

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

Srno	Name of the External Expert/Agency as Mentor	Mentor Expert Area	Type of Mentorship					
1	National Entrepreneur Network	Entrepreneurship/Startup Development	Structured Mentorship					
	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
	Foundation Course on Entrepreneurship Development		20-06-2019	06-11-2019	140	4	35	Innovation/Prototype
	IUCEE Mentorship on Innovation and Product Design		18-10-2019	19-10-2019	3	3	20	Innovation/Prototype
2	Dr.Ardhendu G. Pathak and Dr.Raviprakash	Idea/Innovation 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
	WOrkshop on Product Design	18-10-2019	19-10-2019	2	2	20	Innovation/Prototype
3	Prof. Claire Komives	Idea/Innovation Development				Structured Mentorship	
	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
	Workshop on Design of Experiments	18-11-2019	19-11-2019	2	1	20	Idea
4	Dr.Ranji Vaidhyanathan, Oklahoma State University	Entrepreneurship/Startup Development				Unstructured Mentorship	
5	Mr.IAS. Balamurugan, Managing Director, Anicut Capital LLC	Entrepreneurship/Startup Development				Unstructured Mentorship	
6	Thiagarajar Entrepreneurs Network (TEN)	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 Convert ed 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	Design and development of Image processing system for grading of fruit with respect to quality	Product Innovation	Technological	Department of Electronics and Communication Engg	Faculty	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	Agency Name Indian Institute of Food Processing Technology	Agency Type Govt. Agency (Central)	Award / Position / Recognition Secured Best Innovation	No	Grant Amount in Rs 50000	No	No
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Name	Type	Gender	Email	Contact
Dr.B.Sathyabama	Faculty	Female	bmece@tce.edu	04522482240

2	Automatic Match stick marshallers	Product Innovation	Technological	IUCEE EPICS Centre	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly prototype).	Innovation Development Ongoing	Agency Name Indo Universal Collaboration for Engineering Education	Agency Type Not-Govt. Agencies	Award / Position / Recognition Secured Winner of IUCEE EPICS Design Contest	No	Grant Amount in Rs 5000	No	No
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Name	Type	Gender	Email	Contact
Dr.B.Yogameena	Faculty	Female	ymece@tce.edu	04522482240

Name	Type	Gender	Email	Contact
Dr.S.Saravana Perumal	Faculty	Male	sspmech@tce.edu	04522482240

3	Modular Helmet	Product Innovation	Technological	TCE-IUCEE Hub	Student-Faculty	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	Agency Name Indo Universal Collaboration for Engineering Education	No	Grant Amount in Rs 10000	No	No
									Agency Type International Agencies				
									Award / Position / Recognition Secured Design Thinking Contest - Third Prize				

Name	Type	Gender	Email	Contact
Mr.B.Sankar	Faculty	Male	sspmech@tce.edu	04522482240

6	Solid Waste Management using smart bin technology	Product Innovation	Technological	ENVIS Centre @ TCE	Staff	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Ongoing	Agency Name	IIT PAL S	No	No	No	No
									Agency Type	Not-Govt. Agencies				
									Award / Position / Recognition Secured	Finalist in IIT PAL S INNOVATION Contest				

Name	Type	Gender	Email	Contact
Dr.A.Ramalinga Chandrasekar	Staff	Male	arcchem@tce.edu	9894532757

Name	Type	Gender	Email	Contact
Prasanna S. S	Student	Male	prasannass@student.tce.edu	4522482240

7	Smart Companion for visually challenged	Product Innovation	Technological	Depart	Student	TRL 2 : Technology formulation . Concept and application have been formulated.	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Innovation Development Completed	Agency Name	IIT PAL S	No	No	No	No
									Agency Type	Not-Govt. Agencies				
									Award / Position / Recognition Secured	Finalist in IIT PAL S Innovation Contest				

Name	Type	Gender	Email	Contact
A.Nandha Kumar	Student	Male	nandhakumar16d70@student.tce.edu	4522482240

Name	Type	Gender	Email	Contact
A.Shanskruthan	Student	Male	shanskruthan@student.tce.edu	4522482240

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

Sr no	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/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	Geons Logix Pvt. Ltd	Product Innovation	Technological	1146	Alumni	<div style="background-color: #003366; color: white; padding: 5px; text-align: center;"> Venture with Corporate Identification Number (CIN) Registration </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> U72900TN2019PTC128890 </div>	2019-20	Received Incubation Support from Incubation Unit	No	No	No	Amount Received in Rs. 85500	Yes									
					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name</th> <th style="width: 50%;">DIN number</th> </tr> </thead> <tbody> <tr> <td>Mr.Vinod Krishnan</td> <td>083431964</td> </tr> </tbody> </table>		Name	DIN number	Mr.Vinod Krishnan	083431964	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Type</th> <th style="width: 25%;">Gender</th> </tr> </thead> <tbody> <tr> <td>Alumni Entrepreneur</td> <td>Male</td> </tr> </tbody> </table>		Type	Gender	Alumni Entrepreneur	Male	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Email</th> <th style="width: 50%;">Contact</th> </tr> </thead> <tbody> <tr> <td>vkcri1990@gmail.com</td> <td>8680857285</td> </tr> </tbody> </table>		Email	Contact	vkcri1990@gmail.com	8680857285
Name	DIN number																					
Mr.Vinod Krishnan	083431964																					
Type	Gender																					
Alumni Entrepreneur	Male																					
Email	Contact																					
vkcri1990@gmail.com	8680857285																					

2	Techocupar	Product Innovation	Technological	1146	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	ccc	2019-20	Received Incubation Support from Incubation Unit	No	No	No	Amount Received in Rs.	9000	No
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Name	DIN number	Type	Gender	Email	Contact
Sathishkumar	08598788	Incubatee Entrepreneur	Male	info@techocupar.com	9894991093

T.G.Sathyapriya	08598789	Incubatee Entrepreneur	Female	info@techocupar.com	-
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3	Mavel technologies	Product Innovation	Technological	1146	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	123456789	2019-20	Received Incubation Support from Incubation Unit	No	No	No	Amount Received in Rs.	770750	Yes
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Name	DIN number	Type	Gender	Email	Contact
Mr.Murali Kumar	07953218	Incubatee Entrepreneur	Male	info@maveltechnologies.com	9442266711

Shaji mathew	00521849	Incubatee Entrepreneur	Male	info@maveltechnologies.com	-
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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	National Entrepreneurship Network	Non-Govt. Agencies	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Pre-incubation, Mentoring	15	31-07-2019

Section 8 > ii : List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner**No Data Filled!****Section 8 > iii : List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner**

Srno	Title/Name of Patent	IP Registration Number	Date of Filed/Published (Year, Month)	Application Level	Copy of receipt / application screenshot [PDF or Image]
1	Novel System and Energy Harvesting Method and Device for Wearable Medical Device	201841029494	National	2020 - 02	Uploaded
2	Novel system and Design of an Optimistic approach of clustering algorithm for real time Telecom System	201841028531	National	2020 - 02	Uploaded
3	System and Methods for on the Fly Intelligent Knowledge Acquisition and Context Aware Scribing Using IoT	201841023572	National	2020 - 01	Uploaded
4	Novel System, Method And Device for Multiple Print Screen Option of a Computer Keyboard	201841029658	National	2020 - 02	Uploaded
5	Novel System, Method and Design for Portable Livestock Shelter Remote Monitoring System	201841029659	National	2020 - 02	Uploaded
6	Novel System for Air Pollution Detection and Control by Traffic Monitoring	201841030822	National	2020 - 02	Uploaded
7	Novel System Design for Prevention of Accidents in No-Man Level Crossings Using GPS Mobile Alerts	201841030823	National	2020 - 02	Uploaded
8	Automatic Saline Monitoring System	201941022631	National	2019 - 06	Uploaded
9	Shredding Organic Waste Using Crowd Sourced Manual Power	201941046061	National	2019 - 09	Uploaded
10	A computer implemented method using EMG signal's bispectrum for feature extraction	201941029982	National	2019 - 07	Uploaded
11	Novel Design of Autonomous Guided Vehicle with Servo Steering Control Mechanism	201841029503	National	2020 - 02	Uploaded
12	Novel System for Tracking Overloaded Vehicles	201841030824	National	2020 - 02	Uploaded