



# ARIIA

## ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MoE**  
Ministry of Education  
Government of India

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

Institute Name: Indian Institute of Technology Palakkad [ARI-A-44612]

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

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)
CSquare Innovation Lab	Pre-incubation unit	Multidisciplinary	At all level	Technical	900	8	2

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

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	Yes	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	Yes	IIC Registration ID : IC201811499
Trained Innovation Ambassadors at HEI	Yes	Not Required
Participation in Smart India Hackathon (SIH)	Yes	Not Required
Facilitated listing start-ups/ technologies in Young India combating COVID with Knowledge, Technology and Innovation (YUKTI 2.0) portal of MIC	Yes	Not Required
Participation in National Education Alliance of Technology (NEAT)	Yes	Not Required

### Details of Co-curricular events/programs related to Innovation, IPR and Entrepreneurship/Start-up Conducted by the HEI

Srno	Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration (in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Did any of the participants received any awards/recognition for startup / innovation ideas / research?		
1	Robotics Club Activity	Innovation	Ideation	Student Lead Activity	Robotics Club, IIT Palakkad	15-08-2019 00:00:00	15-11-2019 00:00:00	93	Within Campus	125	1	0	0	126	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>26250</td> </tr> </table>	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	26250	No
Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	26250																	

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

2	Data Analysis Club Activity	Innovation	Ideation	Student Lead Activity	Data Analysis Club, IIT Palakkad	01-12-2019 00:00:00	31-01-2020 00:00:00	62	Within Campus	360	2	0	0	362	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	8250	No
3	Coding Club Activity	Innovation	Skill development	Student Lead Activity	Yet Another Coding Club, IIT Palakkad	15-08-2019 00:00:00	15-11-2019 00:00:00	93	Within Campus	495	2	0	0	497	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	24000	No
4	CSquare Summer Program	Innovation	Ideation	Institute Lead Activity	CSquare Innovation Lab	01-05-2019 00:00:00	31-05-2019 00:00:00	31	Within Campus	20	6	0	0	26	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	45000	No

**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	E-Yantra 2019	Innovation	Innovation Contest	IIT Bombay	Educational Institute	01-08-2019 00:00:00	31-03-2020 00:00:00	24	30	2	32	Yes	Second Round	TBA	Total Expense Amount Incurred by Institute? (In Rupees)	20000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Second Round</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>TBA</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Second Round	Title of Innovation / Start-up Secured the Award / Recognition	TBA	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Second Round																						
Title of Innovation / Start-up Secured the Award / Recognition	TBA																						
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																						
2	ICPC 2019-20	Innovation	Innovation Contest	ICPC Foundation	International Agencies	18-12-2019 00:00:00	18-12-2019 00:00:00	1	6	0	6	No	---	---	No	No							

**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**

3	Young Innovators Program	Innovation	Innovation Contest	Kerala Development and Innovation Strategic Counsel (KDISC)	Govt. Agency (State)	21-10-2019 00:00:00	31-12-2019 00:00:00	72	13	2	15	Yes	All 3 teams final round mentorship fund for 3 years	Mentorship fund to implement their idea	Total Total Expense Amount Incurred by Institute? (In Rupees)	20000	Award / Position / Recognition Secured	All 3 teams final round mentorship fund for 3 years	
																	Title of Innovation / Start-up Secured the Award / Recognition	Mentorship fund to implement their idea	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
4	Smart India Hackathon	Innovation	Innovation Contest	AICTE Ministry of Education, MoE Innovation cell	Govt. Agency (Central)	02-01-2020 00:00:00	30-03-2020 00:00:00	89	32	2	34	Yes	Finalist in the Hardware Category	Warm patient Mattress	No		Award / Position / Recognition Secured	Finalist in the Hardware Category	
																	Title of Innovation / Start-up Secured the Award / Recognition	Warm patient Mattress	
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype	
5	Tech4Seva Workshop	Innovation	Workshop	Unnat Bharat Abhiyan (UBA), Vijnana Bharathi (VIBHA), IIT Delhi	Govt. Agency (Central)	10-08-2019 00:00:00	12-08-2019 00:00:00	3	2	1	3	No	---	---	No		No		

**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	Concepts in Engineering Design and Introduction to Engineering	Innovation	Elective/Core Credit Course	Credit Course (Compulsory)	Interdisciplinary	01-08-2019	30-11-2019	122	Offline	160	45

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

<b>No Data Filled!</b>
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**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)**

**No Data Filled!**

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

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	Robotics Club	Innovation Club	2018	Co-working Space,3D Printing	Pre-Incubation Unit,Innovation Labs, Centre of Excellence with Advance Tools	5	Muskaan Maheshwari	121701014@smail.iitp.kd.ac.in	4923226553
2	Data Analysis Club	Innovation Club	2018	Co-working Space,Work Stations	Pre-Incubation Unit,Innovation Labs	5	Sameer Dhiman	111801038@smail.iitp.kd.ac.in	7018824061
3	Coding Club	Innovation Club	2020	Co-working Space,Work Stations	Pre-Incubation Unit,Innovation Labs	3	Devansh Singh Rathore	111701011@smail.iitp.kd.ac.in	4923226553

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

Srno	Name of Pre-Incubation Centre	Type of Facility	Year of Establishment	Type of Facilities Available at the Centre	Pre-Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Pre-Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Pre-Incubation Unit Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20	Had institute Generated Income either from Services Offered by Pre-Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation Centre/Facilities?						
1	CSquare Innovation Lab	Tinkering Lab	2016	3D Printing & Prototype Equipment, Work Stations	Student Clubs	Student Clubs	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Lakshmi Narasimhan Thiagarajan</td> </tr> <tr> <td>Facility Incharge Email</td> <td>Int@iitp.kd.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9741015481</td> </tr> </table>	Facility Incharge Name	Dr Lakshmi Narasimhan Thiagarajan	Facility Incharge Email	Int@iitp.kd.ac.in	Facility Incharge Phone	9741015481	2	Yes	No	Yes
Facility Incharge Name	Dr Lakshmi Narasimhan Thiagarajan																
Facility Incharge Email	Int@iitp.kd.ac.in																
Facility Incharge Phone	9741015481																
Source of Grant / Fund			Agency Name			Agency Type			Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)								
Institute's Own Fund / Resource			IIT Palakkad			Educational Institute			2550000								

**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?		
					Facility Incharge Name	Facility Incharge Email			Facility Incharge Phone	Yes		No	
1	Central Instrumentation And MicroNano Fabrication Facility	2020	Pre-Incubation		Ganesh Natarajan	n.ganesh@iitpkd.ac.in	8011016625	10	No	0	340000	0	Yes
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				IIT Palakkad				Educational Institute		7215000			

**List the Incubation Facilities at the HEI (>= 1500 Sq. Ft. Floor Area)**

**No Data Filled!**

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

**No Data Filled!**

**List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

**No Data Filled!**

**Provide detail list of Faculties as Mentor to help Ideas/Innovations/Startups**

**No Data Filled!**

**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	Anuradha Shankar	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
	Concepts of Engineering Design	01-08-2019	30-11-2019	122	1	160	Innovation/Prototype
2	S Krishnakumar	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
	Concepts of Engineering Design	01-08-2019	30-11-2019	122	1	160	Innovation/Prototype
3	Manish Jain	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
	Concepts of Engineering Design	01-08-2019	30-11-2019	122	1	160	Innovation/Prototype

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

Srno	Name of the Innovation Generated with the Support of HEI	Type of Innovation	Nature of Innovation	Name of the HEI Supported Innovation Development	Innovation Developed by	Stage of Innovation /Stage of TRL it started receiving the Support during the FY 2019-20	Stage of Innovation /Stage of TRL reached as on 31st March 2020	Status Pre-Incubation/Incubation Support to Innovation as on 31st March 2020	Had the Innovation Received any Recognition at State, National, International Level Programs during the financial period 2019-20	Had the Innovation Converted into Venture/Startup/SME Unit during the financial period 2019-20	Had Centre/Institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2019-20	Had the Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or HEI during the financial period 2019-20	Had the Pre-incubation/Incubation Centre/HEI received any income/revenue from Idea/Prototype /Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2019								
1	Pesticide spraying bot	Product Innovation	Technological		Student	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	<table border="1"> <tr> <th>Agency Name</th> <td>YIP</td> </tr> <tr> <th>Agency Type</th> <td>Govt. Agency (State)</td> </tr> <tr> <th>Award / Position / Recognition Secured</th> <td>Top Hundred</td> </tr> </table>	Agency Name	YIP	Agency Type	Govt. Agency (State)	Award / Position / Recognition Secured	Top Hundred	No	<table border="1"> <tr> <th>Grant Amount in Rs</th> <td>15000</td> </tr> </table>	Grant Amount in Rs	15000	No	No
Agency Name	YIP																				
Agency Type	Govt. Agency (State)																				
Award / Position / Recognition Secured	Top Hundred																				
Grant Amount in Rs	15000																				

Name		Type		Gender		Email		Contact	
Sughandan S		Student		Male		111901049@smail.iitpkd.ac.in		4923226553	

  

Name		Type		Gender		Email		Contact					
Infra Red Imaging on Tooth Decay	Product Innovation	Technological	Student-Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	Agency Name	YIP	No	15000	No	No	2
							Agency Type	Govt. Agency (State)					
							Award / Position / Recognition Secured	Top Hundred					

  

Name		Type		Gender		Email		Contact	
Suchitra Yechuri		Student		Female		111801043@smail.iitpkd.ac.in		9000546205	

  

Name		Type		Gender		Email		Contact					
3	Eye movement based speller device	Product Innovation	Technological	Student-Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	Agency Name	YIP	No	15000	No	No
								Agency Type	Govt. Agency (State)				
								Award / Position / Recognition Secured	Top Hundred				

  

Name		Type		Gender		Email		Contact	
Praveen K		Student		Male		121804102@smail.iitpkd.ac.in		8861990990	

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

No Data Filled!

**List all the Collaborations with External Agencies and Co-Creation of I&E Activities by the HEI**

No Data Filled!

**List the IPs Filed/Published/Granted (Copyright & Designs Only) by the HEI as an Applicant / Co-applicant / Co-owner**

No Data Filled!

**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 Novel Class of Sequence-Defined Polymers and Preparation Methods Thereof	Ref. No. 2020	National	2020 - 01	NA

**List the IPs hold by the Innovation teams/Startups Incubated at the Pre-incubation/incubation Unit of the HEI**

No Data Filled!

**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. PB Sunil Kumar (Head of Institute) and Dr. Arvind Ajoy (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

The Head of Institute



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Prof. PB Sunil Kumar  
Head of the Institution,  
Palakkad, Kerala

Nodal officer



26 March 2021

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Dr. Arvind Ajoy  
Nodal Officer,  
Palakkad, Kerala