



ARIIA

ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



MHRD
Ministry of Human
Resource Development
Government of India

Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2019-20

Institute Name: Indian Institute of Space Science and Technology [ARI-U-0255]

Pre-Qualifier (Basic Data Requirement For Financial Year (2018-19))

Name of the Institute/ University/ Group of Institutions and any Autonomous Body (Incubation Unit/Research Park etc.) located within same campus	Total Annual Expenditure of Institute/ University/ Group of Institutions/ any Autonomous Body (Incubation Unit/ Research Park etc.) located within same campus (Rupees in Figure)	Total Annual Income of Institute/ University/ Group of Institutions/ any Autonomous Body (Incubation Unit/ Research Park etc.) located within same campus (Rupees in Figure)	Balance Sheet, Income & Expenditure (or) Payment & Receipt Account for FY 2018-19 (Only PDF)
INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY	1019853163.00	760653293.00	Document Uploaded in ARIIA DSP
Total (Rupees in Figure)	1019853163.00	760653293.00	

Institute Type : University & Deemed to be University (Govt. & Govt. Aided)

Total Student Base (Enrolled Full Time) for all the Academic Programs Offered by Institute/University (Academic Year 2018-19) := 922

Total Faculty Base (Full Time) Engaged in Teaching and Research at Institute/University (Academic Year 2018-19) := 94

Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

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?	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)
Instructional School for Teachers (IST) on Differential Equations	IPR	Workshop	Institute Lead Activity	Department of Mathematics (funded by National Centre for Mathematics)	14-05-2018 00:00:00	26-05-2018 00:00:00	13	Within Campus	11	3	29	3	46	Yes	448308
Young Talent Nurture 2018	Innovation	Workshop	Institute Lead Activity	Department of Mathematics	14-05-2018 00:00:00	26-05-2018 00:00:00	13	Within Campus	4	8	39	4	55	Yes	169648
International Conference on Recent Trends in Materials Science and Technology	Innovation	International Conference	Institute Lead Activity	Department of Chemistry	10-10-2018 00:00:00	13-10-2018 00:00:00	4	Outside Campus	35	20	265	80	400	Yes	500000

Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by reputed external institutions or agencies at national or international level

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 program/activity/event?	Total Expense Amount Incurred by Institute? (In Rupees)
Udyam Samaagam - A conclave of Technopreneurs Growth of Micro, Small and Medium Enterprises (MSMEs) through Technology Innovation	Entrepreneurship/Startup	Conclave	Ministry of MSME, Government of India	Govt. Agency (State)	19-03-2019 00:00:00	20-03-2019 00:00:00	2	0	2	2	No	---	---	No	---
Indian Analytical Science Congress 2019	Innovation	Conference	Indian Society of Analytical Scientist	Non-Govt. Agencies	19-09-2019 00:00:00	21-09-2019 00:00:00	3	1	0	1	Yes	Best oral presentation award	Acidified molybdenum disulphide nano hybrid material as chemical sensor for quantification of glucose in blood samples	Yes	5000
International winter school on frontiers in materials science	Innovation	Conference	Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore	Govt. Agency (Central)	03-12-2018 00:00:00	07-12-2018 00:00:00	5	2	0	2	No	---	---	Yes	5000
International symposium on Solid State Chemistry of Transition Metal Oxides	Innovation	Symposium	Jawaharlal Nehru Center for Advanced Scientific Research	Govt. Agency (Central)	30-11-2018 00:00:00	01-12-2018 00:00:00	2	1	1	2	No	---	---	Yes	10000
International conference on Advanced Materials and Manufacturing Process in Strategic Sector	Innovation	Conference	Indian Institute of Metals	Non-Govt. Agencies	25-10-2018 00:00:00	27-10-2018 00:00:00	3	4	1	5	Yes	Best Poster Award	Bifunctional Separator as a highly efficient polysulfide mediator for Li-S batteries	Yes	10000

Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by reputed external institutions or agencies at national or international level

International Conference on Nanomaterials and Their Applications	Innovation	Conference	University of Mysore	Govt. Agency (Central)	01-03-2018 00:00:00	02-03-2018 00:00:00	2	1	0	1	No	---	---	Yes	5000
International conference on Sustainable Chemistry for Health, Environment and Materials	Innovation	Conference	Indian Institute of Chemical Technology	Govt. Agency (Central)	05-08-2018 00:00:00	08-08-2018 00:00:00	4	1	0	1	No	---	---	Yes	5000

Courses on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period 2018-19

No Data Filled!

Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Name of Centre	Type of Facility	Year of Facility Creation	Facility Location / Address	Facility Incharge		Carpet Area of Facility	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation & Incubation Centre/Facilities?		Had institute Generated Income either from Services Offered by Pre-Incubation & Incubation Centre/Facilities?
				Facility Incharge Name	Facility Incharge Email		Yes		
Center for Nanosciences and Energy Materials	Centre of Excellence with Advance Tools & Equipment	2011	Department of Chemistry, Department of Chemistry	Facility Incharge Name	Dr. Jobin Cyriac	117 Sq. Mtr.	Yes		No
				Facility Incharge Email	jobincyriac@iist.ac.in		Annual Capital Expenditure (In Rupees)	0	
				Facility Incharge Phone	04712568550		Annual Operational Expenditure (In Rupees)	700000	
AERO CLUB	Pre-Incubation Centre	2012	Room NO 113, Aerospca block, IIST	Facility Incharge Name	Dr Dhayalan R	50 Sq. Ft.	Yes		No
				Facility Incharge Email	dayalan.r@iist.ac.in		Annual Capital Expenditure (In Rupees)	0	
				Facility Incharge Phone	2578441		Annual Operational Expenditure (In Rupees)	25000	

Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Advanced Propulsion and Laser Diagnostics	Centre of Excellence with Advance Tools & Equipment	2016	APLD Building, IIST	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr Aravind V</td> </tr> <tr> <td>Facility Incharge Email</td> <td>aravind7@iist.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>914712568435</td> </tr> </table>	Facility Incharge Name	Dr Aravind V	Facility Incharge Email	aravind7@iist.ac.in	Facility Incharge Phone	914712568435	200 Sq. Ft.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>2455000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>1168000</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	2455000	Annual Operational Expenditure (In Rupees)	1168000	No
Facility Incharge Name	Dr Aravind V																		
Facility Incharge Email	aravind7@iist.ac.in																		
Facility Incharge Phone	914712568435																		
Yes																			
Annual Capital Expenditure (In Rupees)	2455000																		
Annual Operational Expenditure (In Rupees)	1168000																		
Experimental Composite Micromechanics lab	Centre of Excellence with Advance Tools & Equipment	2016	Aerospace block, IIST	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr S Anup</td> </tr> <tr> <td>Facility Incharge Email</td> <td>anup@iist.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>914712568430</td> </tr> </table>	Facility Incharge Name	Dr S Anup	Facility Incharge Email	anup@iist.ac.in	Facility Incharge Phone	914712568430	100 Sq. Ft.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>0</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>250000</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	0	Annual Operational Expenditure (In Rupees)	250000	No
Facility Incharge Name	Dr S Anup																		
Facility Incharge Email	anup@iist.ac.in																		
Facility Incharge Phone	914712568430																		
Yes																			
Annual Capital Expenditure (In Rupees)	0																		
Annual Operational Expenditure (In Rupees)	250000																		
Spectral Imaging and 3D LiDAR Lab	Centre of Excellence with Advance Tools & Equipment	2015	L 203, Science block, IIST	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. L. Gnanappazham and Dr Ramarao</td> </tr> <tr> <td>Facility Incharge Email</td> <td>gnanam@iist.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>914712568528</td> </tr> </table>	Facility Incharge Name	Dr. L. Gnanappazham and Dr Ramarao	Facility Incharge Email	gnanam@iist.ac.in	Facility Incharge Phone	914712568528	100 Sq. Mtr.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>2500000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>1500000</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	2500000	Annual Operational Expenditure (In Rupees)	1500000	No
Facility Incharge Name	Dr. L. Gnanappazham and Dr Ramarao																		
Facility Incharge Email	gnanam@iist.ac.in																		
Facility Incharge Phone	914712568528																		
Yes																			
Annual Capital Expenditure (In Rupees)	2500000																		
Annual Operational Expenditure (In Rupees)	1500000																		
Small-spacecraft Systems and Payload Center (SSPACE)	Centre of Excellence with Advance Tools & Equipment	2018	Aero	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Priyadarsanam</td> </tr> <tr> <td>Facility Incharge Email</td> <td>priyadarsanam@iist.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>914712568583</td> </tr> </table>	Facility Incharge Name	Dr. Priyadarsanam	Facility Incharge Email	priyadarsanam@iist.ac.in	Facility Incharge Phone	914712568583	220 Sq. Mtr.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>20000000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>2000000</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	20000000	Annual Operational Expenditure (In Rupees)	2000000	No
Facility Incharge Name	Dr. Priyadarsanam																		
Facility Incharge Email	priyadarsanam@iist.ac.in																		
Facility Incharge Phone	914712568583																		
Yes																			
Annual Capital Expenditure (In Rupees)	20000000																		
Annual Operational Expenditure (In Rupees)	2000000																		
Space Technology Innovations and Characterization (STIC) Laboratory	Centre of Excellence with Advance Tools & Equipment	2018	Interdisciplinary block, IIST	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Jinesh KB</td> </tr> <tr> <td>Facility Incharge Email</td> <td>kbjinesh@iist.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>914712568630</td> </tr> </table>	Facility Incharge Name	Dr. Jinesh KB	Facility Incharge Email	kbjinesh@iist.ac.in	Facility Incharge Phone	914712568630	50 Sq. Mtr.	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>8000000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>800000</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	8000000	Annual Operational Expenditure (In Rupees)	800000	No
Facility Incharge Name	Dr. Jinesh KB																		
Facility Incharge Email	kbjinesh@iist.ac.in																		
Facility Incharge Phone	914712568630																		
Yes																			
Annual Capital Expenditure (In Rupees)	8000000																		
Annual Operational Expenditure (In Rupees)	800000																		

Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

MEMS, Nanoelectronics & VLSI R&D Laboratories	Centre of Excellence with Advance Tools & Equipment	2017	Aerospace block, IIST	Facility Incharge Name	Dr Seena V	90 Sq. Mtr.	Yes		No
				Facility Incharge Email	seens.v@iist.ac.in		Annual Capital Expenditure (In Rupees)	3100000	
				Facility Incharge Phone	91471256 8579		Annual Operational Expenditure (In Rupees)	360000	
Center for advanced Energy systems	Centre of Excellence with Advance Tools & Equipment	2018	L-004, Avionics Building, IIST	Facility Incharge Name	Dr Rajeevan P P	100 Sq. Ft.	Yes		No
				Facility Incharge Email	rajeevanp p@iist.ac.in		Annual Capital Expenditure (In Rupees)	6100000	
				Facility Incharge Phone	91471256 8594		Annual Operational Expenditure (In Rupees)	0	

Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus

Name of Centre	Source of Grant / Fund	Agency Name	Agency Type	Had Received Grants / Funds by Pre-Incubation & Incubation Centre / Facilities exists in Campus?	Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
Center for Nanosciences and Energy Materials	Institute's Own Fund / Resource	---	---	Yes	700000

Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

No Data Filled!

Start-ups have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

No Data Filled!

Co-Incubation Partnership

No Data Filled!

Technology Commercialization / Transfer

Name of Technology Licenced / Transferred / Commercialized	Technology Type	Type of Transfer	Patent / Licence Number	Patent / Licence Holder	Centre / Department of Origin of Licence	Licence Transferred to	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Total Annual Income Received from Technology Transfer/Licensing (In Rupees)
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Technology Commercialization / Transfer

WATER SOLUBLE COMPLEX OF FULLERENES AND PROCESS FOR PREPARATION THEREOF	IP/Patented Technology	Licensing with Royalty Sharing	299379	Patent/Licence Holder name (Institute Co-ownership is Must)	Indian Institute of Space Science and Technology	Indian Institute of Space Science and Technology	Licence Transferred to	Institute	No	---
				Contact number of license holder	04172568413		Name of Industry/Start-up/Agency Received License/Technology	Indian Institute of Space Science and Technology		
				Email of Licence holder	dean-iprce@iist.ac.in		Address of Agency	Department of Space		
				Gender	Institute		Contact Number of Agency	04172568413		
							Email of Agency	dean-iprce@iist.ac.in		
A METHOD OF PREPARATION OF MACROPOROUS CERAMICS WITH WIDE RANGE OF POROSITIES	IP/Patented Technology	Licensing with Royalty Sharing	305530	Patent/Licence Holder name (Institute Co-ownership is Must)	Indian Institute of Space Science and Technology	Indian Institute of Space Science and Technology	Licence Transferred to	Institute	No	---
				Contact number of license holder	04712568413		Name of Industry/Start-up/Agency Received License/Technology	Indian Institute of Space Science and Technology		
				Email of Licence holder	dean-iprce@iist.ac.in		Address of Agency	Department of Space		
				Gender	Institute		Contact Number of Agency	04712568413		
							Email of Agency	dean-iprce@iist.ac.in		
Process for the preparation of high density carbon foams	IP/Patented Technology	Licensing with Royalty Sharing	314287	Patent/Licence Holder name (Institute Co-ownership is Must)	Indian Institute of Space Science and Technology	Indian Institute of Space Science and Technology	Licence Transferred to	Institute	No	---
				Contact number of license holder	04712568413		Name of Industry/Start-up/Agency Received License/Technology	Indian Institute of Space Science and Technology		
				Email of Licence holder	dean-iprce@iist.ac.in		Address of Agency	Department of Space		
				Gender	Institute		Contact Number of Agency	04712568413		
							Email of Agency	dean-iprce@iist.ac.in		

Technology Commercialization / Transfer

SUBSTITUTED 4 HYDRAZINOTHIAZOLES AND PROCESSES FOR THEIR PREPARATION	IP/Patented Technology	Licensing with Royalty Sharing	302079	Patent/Licence Holder name (Institute Co- ownership is Must)	Indian Institute of Space Science and Technology	Indian Institute of Space Science and Technology	Licence Transferred to	Institute	No	---
				Contact number of license holder	0471256841 3		Name of Industry/Start- up/Agency Received License/Techno logy	Indian Institute of Space Science and Technology		
				Email of Licence holder	dean- iprce@iist.ac. in		Address of Agency	Department of Space		
				Gender	Institute		Contact Number of Agency	0471256841 3		
							Email of Agency	dean- iprce@iist.ac. in		

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 Dr. V K Dadhwal (Head of Institute) and Dr. Shine S R (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

Vkdadhwal
Oct 31, 2019

Dr. V K Dadhwal
Head of the Institution,
Indian Institute of Space Science and Technology,
Thiruvananthapuram, Kerala

Nodal officer

Shine
31/10/19

Dr. Shine S R
Nodal Officer,
Indian Institute of Space Science and Technology,
Thiruvananthapuram, Kerala

Responsibility for accuracy and authenticity of data lies with the concerned institution.