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

Institute Name: National Institute of Technology Uttarakhand [ARI-U-0616]

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

Department / Center / Unit Name	Type of Department / Center / Unit	Mention the Stream / Discipline / Sector of focus	Department / Center / Unit Level	Program Type	Student / Benificiary Strength (2019-20)	Academic Staff Strength (2019-20)	Non-academic Staff Strength (2019-20)
Mechanical Engineering, Electrical Engineering, Electronics Engineering, Civil Engineering, Computer Science and Engineering, Chemistry, Physics, Mathematics, Humanities and Social Sciences	Academic Department with lab facility	Mechanical Engineering, Electrical Engineering, Electronics Engineering, Civil Engineering, Computer Science & Engineering, Structural Engineering, Transportation Engineering, Artificial Intelligence, Computing System, Microelectronics and VLSI Design, Communication Systems, Power Electronics and Drives, Power System and Control ,Manufacturing Technology, Machine Design	UG / PG / PhD	Technical	892	72	65
Design Innovation Centre	Research Unit / Park	Design and Innovation	At all level	Technical	892	8	1

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

Programs/Initiatives	Status	Registration ID
Adopted National Innovation and Start-up Policy at the HEI	No	Not Required
Establishment of Institution's Innovation Council (IIC) at HEI	Yes	IIC Registration ID : IC201810432
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	No	Not Required
Participation in National Education Alliance of Technology (NEAT)	No	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 /	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?

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

					Student Body Name													
1	International Conference on "Innovative Engineering Design 2020 (ICOIED-2020)"	Innovation	Conference	Institute Lead Activity	Design Innovation Center, NIT Uttarakhand	18-01-2020 00:00:00	20-01-2020 00:00:00	3	Outside Campus	8	2	55	10	75	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	500000	Award / Position / Recognition Secured	Award
																	Title of Innovation / Start-up Secured the Award / Recognition	Best Paper Award
																	Award/Recognition/Achievement Received for	Novel Research Paper/Work
2	Business Quiz	Entrepreneurship/Startup	B-Plan Competitions	Student Lead Activity	Innovation and Entrepreneurship Development Cell, NIT Uttarakhand	29-09-2019 00:00:00	29-09-2019 00:00:00	1	Within Campus	144	0	294	0	438	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	6000	Award / Position / Recognition Secured	Position
																	Title of Innovation / Start-up Secured the Award / Recognition	1st, 2nd and 3rd
																	Award/Recognition/Achievement Received for	Business Model/Startup
3	Motivational talk on "Entrepreneurship skills"	Entrepreneurship/Startup	Motivational speak	Student Lead Activity	Innovation and Entrepreneurship Development Cell, NIT Uttarakhand	20-10-2019 00:00:00	20-10-2019 00:00:00	1	Within Campus	30	0	0	0	30	No		No	
4	Entrepreneurship skills by Ishank Joshi	Entrepreneurship/Startup	Awareness	Student Lead Activity	Innovation and Entrepreneurship Development Cell, NIT Uttarakhand	22-02-2020 00:00:00	22-02-2020 00:00:00	1	Within Campus	30	0	0	0	30	No		No	

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

5	Institute Level Hackathon	Innovation	B-Plan Competitions	Student Lead Activity	Innovation and Entrepreneurship Development Cell, NIT Uttarakhand	28-02-2020 00:00:00	28-02-2020 00:00:00	1	Within Campus	20	0	0	0	20	No	Award / Position / Recognition Secured: Postition; Title of Innovation / Start-up Secured the Award / Recognition: Fisrt; Award/Recognition/Achievement Received for: Idea/Innovation/Prototype
6	Five Days Workshop on "Intellectual Property Right and Technology Transfer"	IPR	Workshop	Institute Lead Activity	Research and Consultancy Section	11-05-2019 00:00:00	15-05-2019 00:00:00	5	Within Campus	10	30	0	0	40	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees): 65965	No
7	Faculty Development Program on "Importance of Intellectual Property in Academics"	IPR	Training	Institute Lead Activity	Research and Consultancy Section	25-11-2019 00:00:00	26-11-2019 00:00:00	2	Within Campus	5	35	0	0	40	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees): 19246	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	upStart	Entrepreneurship/Startup	B-Plan Competitions	IIT Kanpur	Educational Institute	30-08-2019 00:00:00	31-08-2019 00:00:00	2	2	0	2	No	---	---	No	No
2	Makeathon 2k20	Innovation	B-Plan Competitions	Thapar Institute of Engineering and Technology	Educational Institute	22-02-2020 00:00:00	23-02-2020 00:00:00	2	3	0	3	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	Shell Eco-Marathon India 2019	Innovation	Innovation Contest	Shell Technology Centre	Corporate / Industry Association	19-11-2019 00:00:00	22-11-2019 00:00:00	4	9	0	9	No	---	---	TotalTotal Expense Amount Incurred by Institute? (In Rupees) 389238	No	
4	Hero E-bike Challenge 2020	Innovation	Innovation Contest	Imperial Society of Innovative Engineers India and Hero Electic	Corporate / Industry Association	27-02-2020 00:00:00	01-03-2020 00:00:00	4	6	1	7	No	---	---	TotalTotal Expense Amount Incurred by Institute? (In Rupees) 211281	No	
5	NIT Conclave 9th Edition 2019	Entrepreneurship/Startup	B-Plan Competitions	NIT Rourkela	Educational Institute	23-08-2019 00:00:00	25-08-2019 00:00:00	3	5	0	5	Yes	First Position	Built a project in under 24 hours for solving a real world problem	No		Award / Position / Recognition Secured: First Position; Title of Innovation / Start-up Secured the Award / Recognition: Built a project in under 24 hours for solving a real world problem; Award/Recognition/Achievement Received for: Business Model/Start up

List the Academic Programs on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period (2019-20)

No Data FIled!

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

No Data FIled!

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 FIled!

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

Srno	Name of Student Club	Type of Club	Year of Establishment	Type of Facilities Available at the Club	Student Club with Access to Other I&E Facilities at the HEI	No of Programs/Activities Organized by the Student Club During the AY 2019-20	Student Club Team Lead Name	Student Club Team Lead Email	Student Club Team Lead Phone
1	Innovation and Entrepreneurship Development Cell NIT Uttarakhand	Innovation Club	2019	3D Printing	IPR Cell/Technology Transfer Centre	5	Mr. Mayank Rajpurohit	BT15EEE031@nituk.ac.in	9897379701

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

No Data FIled!

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

No Data FIled!

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

No Data FIled!

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

No Data FIled!

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

Srno	Name of IPR Cell/Technology Transfer Centre Facility	Year of Establishment	IPR Cell/Technology Transfer Centre with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with IPR Cell/Technology Transfer Centre, if any (Optional)	Facility Details		Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by IPR Cell/Technology Transfer Centre?	Had the IPR Cell/Technology Transfer Centre Provided any Funding Support for Idea/Prototype/Innovation/Startup/Venture Development and implementation during the Financial Year 2019-20?
1	IPR Cell	2019	Student Clubs		Facility Incharge Name	Dr. Vikas Kukshal	02	No	No	No
					Facility Incharge Email	vikaskukshal@nituk.ac.in				
					Facility Incharge Phone	9634706332				

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

No Data FIled!

Provide detail list of External Experts/Agencies engaged as Mentor to help Ideas/Innovations/Startups

No Data FIled!

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

No Data Flled!

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

No Data Flled!

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

No Data Flled!

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

Srno	Title/Name of IP(Copyright & Designs Only)	Type of IP(Copyright & Designs Only)	IP(Copyright & Designs Only) Registration Number of Copyright/Design	Application Level	Date of Copyright / Design IP Filed/ Published (Year, Month)	Copy of receipt / application screenshot [PDF or Image	Current Status of IP(Copyright & Designs Only) as on 31st March 2020	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	Context awareness of a smart device through sensing transient and continuous signals	IPRFiledPublished	20190227096	International	2019 - 07	Uploaded	Granted	No
	Department/Centre Name							
	Electronics Engineering							
2	A hybrid iron sulfide impregnated anion exchanger (HISIIX) for selective removal of hexavalent chromium from contaminated water	IPRFiledPublished	201911024268	National	2019 - 06	Uploaded	Filed	No
	Department/Centre Name							
	Civil Engineeirng							
3	A Solar heating apparatus	IPRFiledPublished	201911037065	National	2019 - 09	Uploaded	Filed	No
	Department/Centre Name							
	Mechanical Engineeinrg							
4	Method for generating a personalized classifier for human motion activities of a mobile or wearable device user with unsupervised learning	IPRFiledPublished	10588517	International	2020 - 03	Uploaded	Granted	No
	Department/Centre Name							
	electronics Engineering							

| 5 | CO(NO3)2 AUTOCATALYZED DECARBOXYLATION OF ITACONIC ACID LEADS TO THE FORMATION OF METHACRYLIC ACID AND CO(II)-MOFS: FLUORESCENT CO(II)-MOFS DETECT HG2+,FE3+ AND CU2+ LONS | IPRFiledPublished | 201811018132 | National | 2019 - 11 | Uploaded | Granted | No |

Department/Centre Name
Chemistry

List the IP (Patents only) Filed by the HEI as Applicant / Co-applicant / Co-owner

No Data FIled!

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

No Data FIled!

List the IP Commercialized/Transferred Published & Granted to HEI as Co-applicant/Co-owner

No Data FIled!

Declaration

To,
The ARIIA Committee
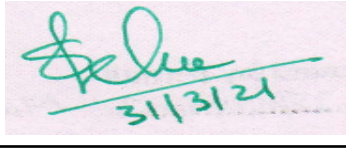MHRD's Innovation Cell
New Delhi

Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Dr. Satish Kumar (Head of Institute) and Dr. Vikas Kukshal (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.
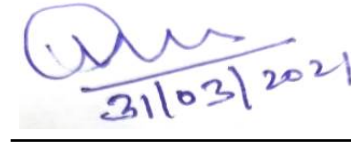
Thank you

The Head of Institute

Nodal officer

Dr. Satish Kumar
Head of the Institution,
Srinagar (Garhwal), Uttarakhand

Dr. Vikas Kukshal
Nodal Officer,
Srinagar (Garhwal), Uttarakhand

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