



# 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 Roorkee [ARI-U-0560]

#### 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)
Applied Science and Engineering	Academic Department with lab facility	Engineering/Science (PHD Only) Dep't have following lab. i.e. , Pulp Lab, Paper Lab, Recovery & Chemistry Lab, Unit Operations Lab, Pollution Control Lab, Instrumentation Lab, Workshops, Polymer Lab, Electrical Lab and Physics lab	UG / PG / PhD	Both	42	3	10
Architecture and Planning	Academic Department with lab facility	Engineering Dep't. having Lab Facilities like- Civic Design Lab, Industrial Design Lab and virtual Reality Lab	UG / PG / PhD	Both	293	19	11
Biotechnology	Academic Department with lab facility	Science Department having Structural Biology and Computational Lab, Analytical Lab, Metabolomics and Proteomics Lab, Cell culture Lab, Drug development and Imaging Lab, and FACS Lab	UG / PG / PhD	Both	354	24	35

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Chemical Engineering	Academic Department with lab facility	Engineering Department having Advanced Polymer & Fuel Cell Research Lab, Biochemical Engineering Research Lab, Bioenergy - Environmental Engineering Research Lab, Complex Fluid Dynamics and Microfluidics (CFDM) Research Lab, Computational Fluid Dynamics Research Lab, Engineering of Catalysis and Reaction Kinetics Research Lab, Energy and Environment Research Lab, Flow and Instability Research Lab, Fluid Mechanics Research Lab, Heterogeneous Catalysis Research Lab, Mass Transfer Research Lab,	UG / PG / PhD	Both	602	24	12
Chemistry	Academic Department with lab facility	Engineering/ Science Department having The Department has well equipped laboratories in the fields of analytical, inorganic and organic chemistry, organometallic chemistry, electrochemistry, biochemistry, photochemistry and polymer chemistry, nano chemistry. The department has acquired most of the state of art instruments necessary to conduct advanced level research. Some of the scientific instruments available are listed below: UV-Vis Spectrometers (solution & solid-state), Spectrofluorimeters	UG / PG / PhD	Both	285	28	21

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Civil Engineering	Academic Department with lab facility	Engineering Department having Environmental Engineering Group, Water Quality Lab, Micro-Biology Lab, Air Quality Lab, Geometrics Engineering Group, Survey Instruments Lab., GIS and Image Processing labs, Photogrammetry lab, Remote Sensing Lab, Modern Surveying Instruments Lab, Geotechnical Engineering Group, Soil Mechanics Lab, Rock Mechanics Lab, Hydraulics Engineering Group, River Engineering Lab, Environmental Hydraulics Lab, Wind Engineering Lab Irrigation Field Demonstration Lab, Structura	UG / PG / PhD	Both	947	52	25
Computer Science and Engineering	Academic Department with lab facility	Engineering Department having Computer Lab - 1 and 2 , Standard Lab, Research Scholars Lab, Data Mining Lab, High-Performance Computing (HPC) Lab, Machine Vision Lab, Information Security Lab, Network Security Lab, UGPC Lab, DST Project Lab, Computing and Design Automation (CoDA) Lab	UG / PG / PhD	Both	471	14	12
Centre For Excellence in Disaster Mitigation and Management	Centre of Excellence with Advance Tools & Equipment	Engineering Centre having Climate Change and Wind Engineering Lab, Bio-Chemical Disaster Assessment Lab, Earthquake and Landslide Risk Assessment Lab, Industrial/Manmade Risk Assessment Lab, High-Performance Computing Lab, Shake Table Lab of Earthquake Risk	UG / PG / PhD	Both	46	29	6

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Earth Sciences	Academic Department with lab facility	Engineering/Science (PG,PHD) Department having Seismology Lab, Geo Chemistry Lab, Geophysics Data Processing Lab, Engineering Geology Lab, Gravity-Magnetics Lab, Micropaleontology Lab, Economics Geology and Fluid Lab, Megnatotelluric Lab, Inclusion Lab, Seismic Data Processing Work Station Lab, Petrology Lab, Computer Simulation and Programming Lab, Structural Geology Lab, Sample Preparation Lab, Density and Magnetic Susceptibility, Measurement of Rock Sample lab, Satellite Earth Station Lab,	UG / PG / PhD	Both	429	29	15
Earthquake Engineering	Academic Department with lab facility	Engineering (PG, PHD) Department having Foundation Lab, Pseudo-Dynamic Structural Test Facility, Quasi-Static Airbag Test Facility, Seismological Observatory, Shake Table Test Facility, Shock Table Test Facility, Soil Dynamics Lab	UG / PG / PhD	Both	115	13	15
Electrical Engineering	Academic Department with lab facility	Engineering Department having Instrumentation & Signal processing Laboratories, Electric Drives & Power Electronics Laboratories, Power System Engineering Laboratories: Systems & Control Laboratories, High Voltage Laboratory, AI Lab, Project lab 1 EED IITR, Modified Smart Grid Lab , In addition to the above laboratories the Department is also having the following common facilities: PBC Laboratory, Fabrication and Assembly Laboratory, Applied Electronics Laboratory, CAD Laboratory, Audiovisual La	UG / PG / PhD	Both	788	33	20

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Electronics and Communication Engineering	Academic Department with lab facility	Engineering Department having Advanced Microwave Lab, mm-THz Wave Lab, Microwave Imaging & Space Tech, Radio Frequency Integrated Circuits (RFIC) Lab Remote Sensing Lab & Microwave Lab, Wireless Communication Lab, Software Defined Radio (SDR) Lab, Signal Processing Lab Communication Systems Lab, Student Homepages, VLSI Design lab I, VLSI Design Lab II (SMDP Lab), Microelectronics Lab, IC Testing Lab, Opto Electronics Lab, Digital Electronics Lab	UG / PG / PhD	Both	546	28	35
Humanities and Social Sciences	Academic Department with lab facility	Science (PG,PHD) Department having Comprehensive Economic Data Base Lab, Language Lab with advanced language learning software to train students, Psychology Lab which contains tests and research material, Dedicated library, computer lab	UG / PG / PhD	Non-Technical	166	22	7
Hydro and Renewable Energy	Academic Department with lab facility	Engineering (PG,PHD) Department having Hydraulic Turbine R&D Lab, Sediment Monitoring and Impact Analysis Lab, Real Time Digital Simulator, Solar Energy Lab, GIS Lab, Hydromechanical System Lab, Biofuel Research Lab, Environmental Lab, Electrical Machines Lab, Instrumentation Lab, Library	UG / PG / PhD	Technical	90	13	9
Hydrology	Academic Department with lab facility	Engineering department having Hydro-meteorological Lab, Water Quality Lab, Surface Water Lab, Ground Water Lab, Geophysics Lab, Watershed Hydrology Lab, Computational Labs, Hydrological Information Systems Lab, M. Tech and RS Lab and Groundwater laboratory	UG / PG / PhD	Both	76	9	10

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Institute Instrumentation Centre	Centre of Excellence with Advance Tools & Equipment	Engineering (PHD) Centre having facilities like Microwave Plasma Atomic Emission Spectroscopy (MPAES), Electron Microscopy, Chemical Lab, Electronics/Electrical Repair Lab Electron Probe Micro-Analysis (EPMA), Fluorescence Lifetime System (FLS), Inductively Coupled Plasma mass Spectrometry (ICPMS-MS) Liquid Nitrogen Plant, Macromolecular Crystallographic Unit (MCU), Nuclear Magnetic Resonance (NMR), Powdered X-Ray Diffractometer Rigaku X-Ray Diffractometer, Scanning Probe Microscopy (SPM) with	UG / PG / PhD	Technical	8	1	17
Management Studies	Academic Department with lab facility	Management (PG,PHD) Department Department having IT Infrastructure (Over 50 networked nodes through TCP/IP based high speed LAN, 45 Mbps leased line, 5.2 VSAT line with internet connectivity in a distributed environment, All nodes connected through 10/100 Ethernet LAN SCO UNIX open server, which includes licenses for software (SCO Xvision 97, Sun JAVA, JDK, Netscape Enterprise Server etc.), Application Development Software (Visual Basic 6.0, Power Builder 6.0, Visual C++ 5.0, Designer/Developer	UG / PG / PhD	Non-Technical	213	23	17
Mathematics	Academic Department with lab facility	Science Department having The lab facilities of the department include Computational Laboratory, Mathematical Modeling Laboratory and Vibration Laboratory.The computation lab of the department also offers service to Department of Physics, Department of Chemistry etc.	UG / PG / PhD	Non-Technical	336	27	20

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Mechanical and Industrial Engineering	Academic Department with lab facility	Engineering Department having Advanced Manufacturing Process Laboratory, Advanced Composites Laboratory, Aerodynamics and Solar Energy Laboratory, AVTAR (Aerodynamics, Visualization, Thermal Analysis Research) Laboratory, CAD Laboratory, Climate Simulator Laboratory, Computer Aided Engineering Laboratory, Computational Fluid Dynamics (CFD) Laboratory, Dynamics of Machines Laboratory, Evolutionary-Algorithms-And-Data-Analytics-Lab, FLOW-CTRL Laboratory, Fluid Mechanics and Fluid Machinery Labo	UG / PG / PhD	Both	923	24	14
Nanotechnology	Centre of Excellence with Advance Tools & Equipment	Engineering (PG,PHD) Department having Instrumentation Chemistry Lab, Instrumentation Biotechnology Lab, Instrumentation Physics Lab, Physics Lab , M Tech Lab I, M Tech Lab II, Computer Lab, High Temperature Lab, Wet Lab, Nanomaterials Lab and Nanoelectronics Lab	UG / PG / PhD	Both	45	24	12
Paper Technology	Academic Department with lab facility	Engineering (PG, PHD), Dep't have following lab. i.e. , Pulp Lab, Paper Lab, Recovery & Chemistry Lab, Unit Operations Lab, Pollution Control Lab. Instrumentation Lab, Workshops, Polymer Lab, Electrical Lab and Physics lab	UG / PG / PhD	Both	68	5	5

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Physics	Academic Department with lab facility	Science Department having Advanced Research in Electrochemical Impedance Spectroscopy Laboratory, Computational Facility, Divyadrishti Imaging Laboratory, Energy Storage Laboratory, Ferroelectric Polymer and Devices Research Laboratory, Functional Nano materials Research Laboratory, High Power Laser Laboratory, High Temperature Superconductor Laboratory, InPho Research Laboratory, Integrated nanophotonics and bio material Laboratory, Photonics Laboratory, Quantum Optics Laboratory, Radiatio	UG / PG / PhD	Both	403	39	14
Polymer and Process Eengineering	Academic Department with lab facility	Engineering (PHD) Department having Unit Operations Lab, Polymer Lab, Instrumentation Lab, Electrical Lab, Physics Lab	UG / PG / PhD	Both	65	10	12
Centre for Transportation Systems	Centre of Excellence with Advance Tools & Equipment	Engineering (PG,PHD) Centre having Facilities like , Road Measuring Data Acquisition System (ROMDAS), Portable Automatics Traffic Counter cum Classifier, Electro Dynamic Vibration Exciter System, Robotics Total Station, Falcon Handheld Stationary Radar with Data Logger, Noise Level Meter , Portable Falling Weight Deflectometer (LOADMAN), Ground Penetration Radar (GPR), Bioreactor and Binary Gradient High Performance Liquid Chromatography.	UG / PG / PhD	Both	42	32	5
Water Resources Development and Management	Academic Department with lab facility	Engineering (PG, PHD) Department having Electrical Laboratory, Hydropower Simulation Laboratory, River Engineering Laboratory, Ground Water Laboratory, Demonstration Farm cum Outdoor River Engineering Laboratory, Irrigation Water Management Laboratory	UG / PG / PhD	Both	147	8	5



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Institute Computer Centre	Centre of Excellence with Advance Tools & Equipment	Engineering/ Science , Centre with latest equipment and technology in the field of computer software and hardware facility like Research Scholar Lab, Scientific & Engineering Computing Lab, Internet Lab, PC Lab, First Year Lab, Project Lab and IMG Lab	UG / PG / PhD	Technical	0	10	14
Entrepreneurship Cell	Pre-incubation unit	Engineering/ Science. Entrepreneurship Cell has been established with the objective of creating, fostering and promoting the spirit of entrepreneurship among the youth of the nation. Entrepreneurship Cell is a student-run organisation of spirited individuals who are striving to create, foster and promote entrepreneurship among the students of IIT Roorkee.	UG / PG / PhD	Technical	400	1	0
Design Innovation Centre (DIC)	Research Unit / Park	Engineering/ Science. The center will thrive for developing design and innovation as a culture while primarily addressing the relevant problems of the North-West Himalayan region and other national priority areas. It dovetails the presence of three partner institutes (spokes) – Indian Institute of Management (IIM) Kashipur, National Institute of Technology Uttarakhand (NITUK) and G B Pant University of Agriculture & Technology (GBPUA&T).	UG / PG / PhD	Technical	72	5	3
Tinkering Lab	Centre of Excellence with Advance Tools & Equipment	Engineering/ Science Lab, Tinkering Lab is a technical facility open to all the students of Indian Institute of Technology Roorkee. Lab is having latest equipments like 3 D Printer, 3D Scanner, Computational, Electronics, Laser Etching Machine, Metal Milling, and Wood Milling etc.	UG / PG / PhD	Technical	334	1	4

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E-Learning Centre	Centre of Excellence with Advance Tools & Equipment	Engineering/ Science (NPTEL COURSES), E-Learning Centre was established in 2003. This cell was primarily conceived to produce high quality Video/Web/Multimedia based instructional material; syllabus based content development for the National Programme on Technology Enhanced Learning (NPTEL) project. The cell has state-of-the-art digital video cameras, non-linear editing systems, audio and video systems, teaching aids, substantial number of computers, servers and softwares required to produce high	UG / PG / PhD	Both	100	1	10
Sponsored research and Industrial Consultancy	Industry Institute Interface Unit	A full-fledged office operating under Dean (SRIC) provides administrative and accounting support to the faculty undertaking sponsored research and consultancy work. Sponsored Research (SR) and Industrial Consultancy (IC) plays a strong promotional role by liaising with industry and government organizations, providing IPR support and internal research grants to the faculty.	Not Allowed	Both	90	3	35
Technology Incubation and Entrepreneurship Development Society (TIDES)	Incubation Unit	Engineering/ Science (For Startup, Multisector), (TIDES) has been established to promote innovation and entrepreneurship in the region. TIDES facilitates incubation of new enterprises with innovative technologies by admitting them at its Incubation Centre and provides physical, technical, financial and networking supports and services. TIDES runs and manages a Business Incubator called Technology Innovation & Development of Entrepreneurship Support (TIDES) Business Incubator hosted at Indian Inst	UG / PG / PhD	Both	70	8	5

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Continuing Education Centre	Industry Institute Interface Unit	It is a pioneering centre in the area of continuing education in the country. The Centre conducts about 60 to 70 short term training programmes in Continuing Education every year in various disciplines of management, engineering, science and technology in which the professionals are trained from all parts of the country as well as from the neighbour countries. The Centre is fully equipped with the facility of conference hall, accommodation, dining and recreation.	At all level	Both	0	1	12
Intellectual Property Right Cell (IPR CELL)	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	Intellectual property (IP) refers to various distinct types of creations of the mind : inventions, literary and artistic works, and symbols, names, images, and designs used in commerce; for which a set of exclusive rights like copyrights, trademarks, patents, industrial design rights and trade secrets are recognized under the corresponding fields of law.	At all level	Not Allowed	0	1	3
Quality Improvement Program (QIP)	Industry Institute Interface Unit	Engineering/Science/Management (Academic and Research for Industry and Govt. Organization Employee for Enhancement in Education )	UG / PG / PhD	Both	17	1	4
Metallurgical and Materials Engineering	Academic Department with lab facility	Engineering Department having Lab Facilities like Ceramic Laboratory, Corrosion Laboratory, Computer Laboratory, Concept Materials Laboratory, Fabrication Laboratory, Fatigue Testing Laboratory, Foundry Laboratory, Heat Treatment Laboratory, HR-TEM Laboratory, Joining of Materials, Materials Engineering Laboratory/Spark Plasma Sintering Lab., Magnetic Materials Research Laboratory, Materials Processing Laboratory, Materials Testing Laboratory, Met/Chemical Analysis Laboratory,	UG / PG / PhD	Both	431	24	13

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Greater Noida Extension Centre IITR	Industry Institute Interface Unit	"Engineering/Science, IIT Roorkee has an Extension centre at Greater Noida (GNEC), It has an academic block with state of art facilities, Computer labs with latest software, A well equipped E-Learning Production Lab, A 104 AC rooms hostel, It has to be evolved as a centre to showcase IITRs strength and capabilities, In the fields of education, research, consultancy and emerging technology incubation, to industries and organizations world wide with an aim to accelerate the process of nation build	At all level	Not Allowed	0	6	2
Information Management Group	Industry Institute Interface Unit	we strive to lead in the invention, development and maintenance of advanced information technologies, including computer systems, software and database systems.	UG / PG / PhD	Not Allowed	35	1	5
Unnat Bharat Abhiyan, IIT Roorkee	Industry Institute Interface Unit	IIT Roorkee, aims to address the developmental challenges of rural India through participatory processes and appropriate technologies to build a sustainable ecosystem.Under the aegis of UBA, IIT Roorkee has adopted 8 villages namely Beladi-Salhapur, Chandpur-Khurd, Chandpur-Kala, Horawala, Chharba, Jhabarpur, Meerpur-Muwazarpur, and Puranpur-Salhapur to ignite a transformational change.	UG / PG / PhD	Not Allowed	16	4	1
Himalayan Explorers Club	Industry Institute Interface Unit	The Institute Sports Association nurtured the Mountaineering & Trekking Club which fostered all mountaineering, trekking and outward bound activities amongst science, engineering and professional student community of the Indian Institute of Technology Roorkee.	UG / PG / PhD	Not Allowed	20	1	0

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ACM IITR	Industry Institute Interface Unit	The IIT Roorkee ACM Student Chapter is an official student body incepted in 2014 under the aegis of Department of Computer Science and Engineering, IIT Roorkee. The chapter aims at uniting the computing fraternity at IIT Roorkee under one tag and allowing the students to learn together and share their knowledge to cater the interests of the individuals as well as the institute as a whole.	At all level	Not Allowed	250	10	5
Team KNOx	Industry Institute Interface Unit	Team KNOx is a group of 25 B.Tech students who construct an All Terrain Vehicle (ATV) for participating in BAJA SAE Intercollegiate competition which is held at national level in Indore and at international level in South Africa. - Team KNOx has been functional since 2009 and has constructed four cars for BAJA SAE INDIA.	At all level	Not Allowed	50	5	0
ASME IITR	Industry Institute Interface Unit	The ASME Student Chapter at IIT Roorkee is an undergraduate club comprised of students majoring in Mechanical and Industrial Engineering. Our mission is to promote and enhance technical competency and professional well-being of our members through quality programs and activities in mechanical engineering.	At all level	Not Allowed	50	10	0
EESS IITR	Industry Institute Interface Unit	Electrical Engineering Students' Society is a student-run body composed of Electrical Engineering students from all the years. We aim to promote interaction amongst all the students and the faculty of the department. We strive to provide any kind of assistance that enhances the quality of students' stay at the campus.	At all level	Not Allowed	50	10	0

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Rutag	Industry Institute Interface Unit	RuTAG was set up at Indian Institute of Technology, Roorkee in January 2010 with the objective to provide necessary synergy and support to non-government or voluntary organizations, involved in the development of need and demand driven high level technological interventions for the benefit of rural occupational groups of Uttarakhand, Himachal Pradesh and Jammu & Kashmir state of India. RuTAG is supported by the office of Principal Scientific Adviser to the Government of India, New Delhi.	Not Allowed	Not Allowed	50	12	5
Centre of Excellence in Process Development, Wastewater management in petrochemical Industries	Centre of Excellence with Advance Tools & Equipment	Engineering (PG,PHD) Department having Instrumentation Chemical Lab	At all level	Not Allowed	300	24	10
Technology Innovation Hub	Research Unit / Park	Technology Innovation Hub IIT Roorkee is one of the 25 hubs setup under National Mission of Interdisciplinary Cyber- Physical Systems (NM-ICPS) sponsored by Department of Science and Technology. It will serve as one- stop solution for 356 fundamental technologies. A sum of Rs 135 crore is sanctioned for the period of the next five years to the ihub.	At all level	Not Allowed	20	3	3
Space Technology Cell	Research Unit / Park	Advanced research in the areas of relevance to the future technological and programmatic needs of the Indian Space Programme.	At all level	Not Allowed	0	3	0
Centre of Railway Research Centre	Research Unit / Park	This is the Research Centre set up in an Academic Institute with direct and full funding by the Indian Railways. Indian Railways is the nation's premier organization for providing transportation service. Ministry of Railways is operating one of the largest railway systems in the world	At all level	Not Allowed	0	6	5

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SAE	Industry Institute Interface Unit	Society of Automotive Engineers IIT Roorkee collegiate chapter was established in March 2000 with the collective effort of a group of students who had a strong urge to complement the theoretical knowledge imparted in the classroom, with emphasis on the practical aspects of engineering.	At all level	Not Allowed	180	5	0
Motorsports	Industry Institute Interface Unit	the Formula Student team of IIT Roorkee which participates in Formula SAE competitions, the largest Engineering Competition in the world, by designing, developing and fabricating an open-wheel Formula style Race Car.	At all level	Not Allowed	25	5	0
SAE Aero	Industry Institute Interface Unit	A relatively new initiative by SAE IIT Roorkee, it caters to the needs of all aeromodelling enthusiasts on campus. Tinkering with UAVs and participating in national level competitions, the group is already brimming with innovative individuals working together, with a will to fly higher.	At all level	Not Allowed	25	5	0
ShARE	Industry Institute Interface Unit	a platform for young engineers to gain an international exposure on social, business and economic issues.	At all level	Not Allowed	50	5	0
CIG	Industry Institute Interface Unit	Teaching, research and extension are basic function of educational institutions. To continue updating and development of institute at global platform every institution work on to build strong base or platform to grow the industrial and academic leaders.	At all level	Not Allowed	200	1	2

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AIChE	Industry Institute Interface Unit	AIChE's vision is to provide value as the Global Leader of the Chemical Engineering profession, the lifetime centre for professional & personal growth, and security of chemical engineers, and the foremost catalyst in applying chemical engineering expertise in meeting societal needs.	At all level	Not Allowed	200	24	15
MIESS	Industry Institute Interface Unit	It organizes a wide range of technical and non-technical events spread evenly throughout the year. Our events are aimed at providing an opportunity of cultural and technical expression to students.	At all level	Not Allowed	400	24	0
MaRS	Industry Institute Interface Unit	This section provides a perfect platform for students to develop their innovative and technical skills - mainly mechanical, electronics and architectural.	At all level	Not Allowed	350	5	0
Geek Gazette	Industry Institute Interface Unit	Geek gazette consists of a team of intelligentsia, myth-busters, technocrats and web surfers working round the clock to bring to you a periodical, fully loaded with the most intriguing articles, blatant product reviews, campus tech-trends, dialogues with the campus technotopians and a precis of latest from the world of science and technology in the word of the layman.	At all level	Not Allowed	150	5	0
Samsung Lab	Research Unit / Park	The rapid growth of technology is only possible by harnessing and educating man power in mobile Industry. Samsung Lab aims to educate Students and to empower them for better technology change.	At all level	Not Allowed	0	2	0



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Technical Education Quality Improvement Program (TEQIP)	Industry Institute Interface Unit	The Technical Education Quality Improvement Program (TEQIP) aims to upscale and support on-going efforts of Government of India (GoI) to improve quality of technical education and enhance existing capacities of the institutions to become futuristic.	At all level	Both	0	4	10
IPR Chair	Research Unit / Park	Creation of superior quality Intellectual Capital for Indian Leadership in a globalized knowledge society.	At all level	Technical	0	1	1
Railtel	Centre of Excellence with Advance Tools & Equipment	To create an environment for innovation in the field of telecom by enabling absorption of the current technology and developing future ready indigenous capability.	At all level	Technical	0	4	5

**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 : IC201811405
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	Workshop on Vertical machining center	Innovation	Workshop	Institute Lead Activity	Tinkering Lab	06-05-2019 00:00:00	07-05-2019 00:00:00	2	Within Campus	18	2	0	0	20	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>25000</td> </tr> </table>	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000	No
Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000																	

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2	Facility Exposure	Innovation	Workshop	Institute Lead Activity	Tinkering Lab	13-05-2019 00:00:00	13-05-2019 00:00:00	1	Within Campus	2	2	18	0	22	No	No	
3	Understanding Product Design: A hands-on Approach	Innovation	Workshop	Institute Lead Activity	Tinkering Lab and Design Innovation center	17-06-2019 00:00:00	21-06-2019 00:00:00	5	Within Campus	1	5	32	3	41	No	No	
4	Smart India Hardware Hackathon	Innovation	Hackathon	Institute Lead Activity	Tinkering Lab	08-07-2019 00:00:00	12-07-2019 00:00:00	5	Within Campus	16	12	82	11	121	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	1572578	No
5	Uttarakhand startup bootcamp	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	Tinkering Lab	16-09-2019 00:00:00	16-09-2019 00:00:00	1	Outside Campus	0	1	76	8	85	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	46000	No
6	Challenges & Opportunities in Cloud Operations	Innovation	Seminar	Institute Lead Activity	Sponsored Research and Industrial Consultancy	06-09-2019 00:00:00	06-09-2019 00:00:00	1	Within Campus	96	4	0	0	100	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	6240	No
7	Changing Trends in the Steel Sector in 21st Century India	Innovation	Seminar	Institute Lead Activity	Sponsored Research and Industrial Consultancy	22-10-2019 00:00:00	22-10-2019 00:00:00	1	Within Campus	78	7	0	0	85	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4992	No
8	Critical ingredients for catalyzing life science innovation ecosystem	Innovation	Seminar	Institute Lead Activity	Sponsored Research and Industrial Consultancy	31-10-2019 00:00:00	31-10-2019 00:00:00	1	Within Campus	56	5	0	0	61	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4892	No
9	Convergence of Geospatial Technology in AI/ML and IOT for New India	Innovation	Seminar	Institute Lead Activity	Sponsored Research and Industrial Consultancy	09-01-2020 00:00:00	09-01-2020 00:00:00	1	Within Campus	112	6	0	0	118	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	6336	No

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

10	Distributed Data Science for Connected and Autonomous Cars: From Research to Best Seller Products	Innovation	Seminar	Institute Lead Activity	Sponsored Research and Industrial Consultancy	23-01-2020 00:00:00	23-01-2020 00:00:00	1	Within Campus	60	4	0	0	64	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	4992	No
11	Research Fundamental Workshop	Innovation	Workshop	Student Lead Activity	Corporate Interaction Group	22-02-2020 00:00:00	22-02-2020 00:00:00	1	Within Campus	160	5	0	0	165	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	6656	No
12	Design Innovation Awareness	Innovation	Awareness	Institute Lead Activity	Design Innovation Center	30-04-2019 00:00:00	30-04-2019 00:00:00	1	Within Campus	0	3	47	6	56	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No
13	Design Innovation Awareness	Innovation	Awareness	Institute Lead Activity	Design Innovation Center	15-05-2019 00:00:00	15-05-2019 00:00:00	1	Within Campus	0	3	26	6	35	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No
14	Design Innovation Awareness	Innovation	Awareness	Institute Lead Activity	Design Innovation Center	17-05-2019 00:00:00	17-05-2019 00:00:00	1	Outside Campus	0	1	30	2	33	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	15000	No
15	Design Innovation Awareness	Innovation	Awareness	Institute Lead Activity	Design Innovation Center	08-02-2020 00:00:00	08-02-2020 00:00:00	1	Within Campus	0	3	71	8	82	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No
16	Innovative Design: Ideation to Realization	Innovation	Awareness	Institute Lead Activity	Design Innovation Center	30-08-2019 00:00:00	30-08-2019 00:00:00	1	Within Campus	0	3	26	2	31	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	30000	No

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

17	Innovative Design: Ideation to Realization	Innovation	Awareness	Institute Lead Activity	Design Innovation Center	20-09-2019 00:00:00	20-09-2019 00:00:00	1	Outside Campus	0	1	50	2	53	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	30000	No
18	Innovative Design: Ideation to Realization	Innovation	Awareness	Institute Lead Activity	Design Innovation Center	13-11-2019 00:00:00	13-11-2019 00:00:00	1	Within Campus	0	4	32	2	38	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	30000	No
19	Design Thinking Approach for Product Innovation	Innovation	Workshop	Institute Lead Activity	Design Innovation Center and Tinkering Lab	13-01-2020 00:00:00	17-01-2020 00:00:00	5	Within Campus	0	8	40	1	49	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	No
20	Applications of the Latest Technologies in the Area of Product Design	Innovation	Workshop	Institute Lead Activity	Design Innovation Center and Tinkering Lab	20-01-2020 00:00:00	24-01-2020 00:00:00	5	Within Campus	0	6	30	3	39	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	No
21	Design Thinking Approach for Product Innovation	Innovation	Awareness	Institute Lead Activity	Design Innovation Center	17-02-2020 00:00:00	21-02-2020 00:00:00	5	Within Campus	0	8	39	1	48	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	No
22	Clean Water for Himalayan region	Innovation	Awareness	Student Lead Activity	Design Innovation Center	15-02-2020 00:00:00	15-02-2020 00:00:00	1	Within Campus	1	4	27	0	32	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	No
23	Sustainable Materials from Himalayan Forest Waste	Innovation	Awareness	Student Lead Activity	Design Innovation Center	16-02-2020 00:00:00	16-02-2020 00:00:00	1	Within Campus	0	4	23	0	27	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000	No

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

24	Design Thinking	Innovation	Awareness	Student Lead Activity	Design Innovation Center	16-02-2020 00:00:00	16-02-2020 00:00:00	1	Within Campus	5	1	19	0	25	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	20000	No
25	Himalayan Summit	Innovation	Exhibition	Institute Lead Activity	Design Innovation Center	01-05-2019 00:00:00	01-05-2019 00:00:00	1	Within Campus	37	4	22	5	68	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	No
26	Winter Internship Program 2019	Innovation	Mentoring Session	Institute Lead Activity	Design Innovation Center	01-12-2019 00:00:00	31-12-2019 00:00:00	31	Within Campus	2	4	2	0	8	No	No	
27	Uttarakhand startup bootcamp	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	Tinkering Lab	18-09-2019 00:00:00	18-09-2019 00:00:00	1	Outside Campus	0	1	81	9	91	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	47000	No
28	Workshop on Computer numerical control Lathe machine	Innovation	Workshop	Institute Lead Activity	Tinkering Lab	29-09-2019 00:00:00	29-09-2019 00:00:00	1	Within Campus	30	2	0	2	34	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	12000	No
29	Applications of Computer aided manufacturing	Innovation	Training	Student Lead Activity	Tinkering Lab	11-10-2019 00:00:00	11-10-2019 00:00:00	1	Within Campus	15	1	0	1	17	No	No	
30	Facility Exposure	Innovation	Exposure visit	Institute Lead Activity	Tinkering Lab	06-11-2019 00:00:00	06-11-2019 00:00:00	1	Within Campus	2	2	65	4	73	No	No	
31	Facility Exposure	Innovation	Exposure visit	Institute Lead Activity	Tinkering Lab	27-11-2019 00:00:00	27-11-2019 00:00:00	1	Within Campus	0	1	12	2	15	No	No	
32	Facility Exposure	Innovation	Exposure visit	Student Lead Activity	Tinkering Lab	02-12-2019 00:00:00	02-12-2019 00:00:00	1	Within Campus	2	2	15	0	19	No	No	
33	3D Printing & 3D Scanning	Innovation	Workshop	Student Lead Activity	Tinkering Lab	25-01-2020 00:00:00	25-01-2020 00:00:00	1	Within Campus	33	1	0	0	34	No	No	

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

34	E-summit Hardware Productathon 2020 Team Problem solvers	Innovation	Hackathon	Student Lead Activity	Tinkering Lab and Design Innovation Centre	01-02-2020 00:00:00	02-02-2020 00:00:00	2	Within Campus	35	2	9	0	46	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	2000000	Award / Position / Recognition Secured	1 st prize
																	Title of Innovation / Start-up Secured the Award / Recognition	Road quality index, Theme-Road safety
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
35	Facility Exposure	Innovation	Exposure visit	Student Lead Activity	Tinkering Lab	01-02-2020 00:00:00	01-02-2020 00:00:00	1	Within Campus	5	2	80	20	107	No		No	
36	Design Innovation awareness	Innovation	Awareness	Institute Lead Activity	Tinkering Lab and Design Innovation Centre	08-02-2020 00:00:00	08-02-2020 00:00:00	1	Within Campus	0	3	71	8	82	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	No	
37	National Social Summit 20	Innovation	Exposure visit	Student Lead Activity	Tinkering Lab	14-02-2020 00:00:00	16-02-2020 00:00:00	3	Within Campus	4	2	80	0	86	No		No	
38	Design thinking approach for product innovation	Innovation	Workshop	Institute Lead Activity	Tinkering Lab and Design Innovation Centre	17-02-2020 00:00:00	21-02-2020 00:00:00	5	Within Campus	0	8	39	1	48	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	No	
39	Traning program on Raise E2	Innovation	Training	Institute Lead Activity	Tinkering Lab	17-03-2020 00:00:00	17-03-2020 00:00:00	1	Within Campus	33	1	0	1	35	No		No	
40	Traning program on SLS Lisa pro	Innovation	Training	Institute Lead Activity	Tinkering Lab	18-03-2020 00:00:00	18-03-2020 00:00:00	1	Within Campus	30	2	0	1	33	No		No	
41	Neural Style Transfer Workshop	Innovation	Workshop	Student Lead Activity	ACM IITR	28-02-2020 00:00:00	28-02-2020 00:00:00	1	Within Campus	50	2	0	0	52	No		No	

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

42	E-Summit 2020	Entrepreneurship/Startup	Exhibition	Student Lead Activity	E-Cell (Entrepreneurship Cell) IIT Roorkee	01-02-2020 00:00:00	02-02-2020 00:00:00	2	Within Campus	650	2	750	0	1402	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	200000	Award / Position / Recognition Secured Yourstory, Economics Times, ED Times, INC 42, Startup News.Fyi, Youth Incorporated, Amar Ujala, TOI
Title of Innovation / Start-up Secured the Award / Recognition UNESCO, Startup India, Startup Uttarakhand, Birac India																	
Award/Recognition/Achievement Received for Business Model/Startup																	
43	Endeavour Entrepreneurship	Entrepreneurship/Startup	B-Plan Competitions	Student Lead Activity	E-Cell (Entrepreneurship Cell) IIT Roorkee	25-09-2019 00:00:00	29-09-2019 00:00:00	5	Within Campus	200	3	0	0	203	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	50000	Award / Position / Recognition Secured MyCaptain, Startup Monk, Blue9
Title of Innovation / Start-up Secured the Award / Recognition MyCaptain, Startup Monk, Blue9																	
Award/Recognition/Achievement Received for Business Model/Startup																	
44	E-Connect 3.0	Innovation	Seminar	Student Lead Activity	E-Cell (Entrepreneurship Cell) IIT Roorkee	20-12-2019 00:00:00	21-12-2019 00:00:00	2	Within Campus	5	3	20	0	28	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	10000	Award / Position / Recognition Secured First ever Inter IIT E-Connect at Institute level
Title of Innovation / Start-up Secured the Award / Recognition First ever Inter IIT E-Connect at Institute level																	
Award/Recognition/Achievement Received for Idea/Innovation/Prototype																	

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

45	E-Club IIT Roorkee	Entrepreneurship/Startup	Conference	Student Lead Activity	E-Cell (Entrepreneurship Cell) IIT Roorkee	10-08-2019 00:00:00	17-08-2019 00:00:00	8	Within Campus	45	3	0	0	48	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Recognized by Investor across globe</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Blume Venture, Ah Venture, Kolkata venture, venture Catalyst, Faad venture, Tides Incubator, Zenfold Venture, 100.VC, Marwari Catalyst, Speciale Venture, Boudhik venture, Nexus venture, Kyt venture, Inventus India</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Business Model/Start up</td> </tr> </table>	Award / Position / Recognition Secured	Recognized by Investor across globe	Title of Innovation / Start-up Secured the Award / Recognition	Blume Venture, Ah Venture, Kolkata venture, venture Catalyst, Faad venture, Tides Incubator, Zenfold Venture, 100.VC, Marwari Catalyst, Speciale Venture, Boudhik venture, Nexus venture, Kyt venture, Inventus India	Award/Recognition/Achievement Received for	Business Model/Start up
Award / Position / Recognition Secured	Recognized by Investor across globe																					
Title of Innovation / Start-up Secured the Award / Recognition	Blume Venture, Ah Venture, Kolkata venture, venture Catalyst, Faad venture, Tides Incubator, Zenfold Venture, 100.VC, Marwari Catalyst, Speciale Venture, Boudhik venture, Nexus venture, Kyt venture, Inventus India																					
Award/Recognition/Achievement Received for	Business Model/Start up																					
46	Solidworks And ANSYS Workshop	Innovation	Workshop	Student Lead Activity	Team KNOx	09-02-2020 00:00:00	15-02-2020 00:00:00	7	Within Campus	30	2	0	0	32	No	No						
47	Smart India Hackathon	Innovation	B-Plan Competitions	Student Lead Activity	E-Cell (Entrepreneurship Cell) IIT Roorkee	01-02-2020 00:00:00	10-02-2020 00:00:00	10	Within Campus	6	3	0	0	9	No	No						
48	Solidworks Workshop	Innovation	Workshop	Institute Lead Activity	ASME IITR	05-10-2019 00:00:00	06-10-2019 00:00:00	2	Within Campus	10	2	80	0	92	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>5000</td> </tr> </table>	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000	No				
Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	5000																					
49	Microcontrollers Workshop	Innovation	Workshop	Institute Lead Activity	ASME IITR	04-09-2019 00:00:00	04-09-2019 00:00:00	1	Within Campus	5	2	70	0	77	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>500</td> </tr> </table>	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	500	No				
Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	500																					



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

50	Uttarakhand Startup BootCamp - College of Engineering Roorkee	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	16-09-2019 00:00:00	17-09-2019 00:00:00	2	Outside Campus	0	0	76	11	87	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	83000	No
51	Uttarakhand Startup Bootcamp - DIT University Dehradun	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	18-09-2019 00:00:00	19-09-2019 00:00:00	2	Outside Campus	0	0	81	8	89	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	83000	No
52	Uttarakhand Startup Bootcamp - Tula's Institute Dehradun	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	10-10-2019 00:00:00	11-10-2019 00:00:00	2	Outside Campus	0	0	87	9	96	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	84000	No
53	Workshop on Pcb Prototyping Using LPKF Protomat S103	Entrepreneurship/Startup	Workshop	Institute Lead Activity	TIDES	19-12-2019 00:00:00	19-12-2019 00:00:00	1	Within Campus	17	0	11	0	28	No		No
54	Medical Devices and Regulatory Affairs Workshop	Entrepreneurship/Startup	Workshop	Institute Lead Activity	TIDES	21-01-2020 00:00:00	21-01-2020 00:00:00	1	Within Campus	16	0	4	0	20	No		No
55	Workshop on Soldering Station: How to solder, Tips & Trick	Entrepreneurship/Startup	Workshop	Institute Lead Activity	TIDES	13-02-2020 00:00:00	13-02-2020 00:00:00	1	Within Campus	18	0	7	0	25	No		No
56	Introductory Session on ASME IITR Chapter	Innovation	Workshop	Student Lead Activity	ASME IITR	23-08-2019 00:00:00	23-08-2019 00:00:00	1	Within Campus	7	1	60	0	68	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	500	No
57	Additive manufacturing	Innovation	Workshop	Institute Lead Activity	Tinkering Lab	24-07-2019 00:00:00	29-08-2019 00:00:00	37	Within Campus	32	2	0	0	34	No		No

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

58	Non traditional machining processes	Innovation	Workshop	Institute Lead Activity	Tinkering Lab	26-08-2019 00:00:00	01-11-2019 00:00:00	68	Within Campus	90	2	0	0	92	No	No			
59	Advance manufacturing processes	Innovation	Workshop	Institute Lead Activity	Tinkering Lab	31-01-2020 00:00:00	20-02-2020 00:00:00	21	Within Campus	30	2	0	0	32	No	No			
60	Product Design and Innovation	Innovation	Workshop	Institute Lead Activity	Tinkering Lab	26-02-2020 00:00:00	26-02-2020 00:00:00	1	Within Campus	30	2	0	0	32	No	No			
61	Vertical Machining Center Workshop	Innovation	Workshop	Institute Lead Activity	Design Innovation Centre	06-05-2019 00:00:00	07-05-2019 00:00:00	2	Within Campus	9	2	0	0	11	<table border="1"> <tr> <td>Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)</td> <td>25000</td> </tr> </table>		Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000	No
Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)	25000																		
62	Introduction - TIDES Accelerator Program	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	15-04-2019 00:00:00	15-04-2019 00:00:00	1	Within Campus	0	2	30	0	32	No	No			
63	Workshop on Design Thinking	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	16-04-2019 00:00:00	16-04-2019 00:00:00	1	Within Campus	0	2	30	0	32	No	No			
64	"Paytm Mentor connect: Ice Breaking Interaction Session Digital Payments as a Growth Enabler for Indian Startups	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	27-04-2019 00:00:00	27-04-2019 00:00:00	1	Within Campus	0	2	30	0	32	No	No			
65	"Delivering Technology at Scale ( Deep Tech discussion, addressing individual startup queries)"	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	27-04-2019 00:00:00	27-04-2019 00:00:00	1	Within Campus	0	2	30	0	32	No	No			

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

66	Investors Mindset, What do investors look for	Entrepreneurship/Startup	B-Plan Competitions	Institute Lead Activity	TIDES	27-04-2019 00:00:00	27-04-2019 00:00:00	1	Within Campus	0	2	30	0	32	No	No
67	Strategy & Innovation	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	28-04-2019 00:00:00	28-04-2019 00:00:00	1	Within Campus	0	2	30	0	32	No	No
68	Business Canvas Model Workshop	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	28-04-2019 00:00:00	28-04-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
69	Technology, Strategy and Digital Innovations Strategy for Enterprises of the Future. Format: 1 hour workshop followed by 1-1 open ended Q&A and discussion with individual founders.	Entrepreneurship/Startup	Workshop	Institute Lead Activity	TIDES	28-04-2019 00:00:00	28-04-2019 00:00:00	1	Within Campus	0	2	28	2	32	No	No
70	Project Implementations, Governance, Government Policies for startups. Format: Round Table 1-1 meetings.	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	11-05-2019 00:00:00	11-05-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
71	Opening up the Black Box	Entrepreneurship/Startup	Workshop	Institute Lead Activity	TIDES	11-05-2019 00:00:00	11-05-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No

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

72	Customer Acquisition, building profitable customer-centric transformation strategies, fixing profitability issues and scaling up.	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	12-05-2019 00:00:00	12-05-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
73	Dive into User-Interface Design and UI/UX. Format	Entrepreneurship/Startup	Workshop	Institute Lead Activity	TIDES	12-05-2019 00:00:00	12-05-2019 00:00:00	1	Within Campus	0	2	27	0	29	No	No
74	"Go To Market Strategies and Business Pivots	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	25-05-2019 00:00:00	25-05-2019 00:00:00	1	Within Campus	0	2	26	0	28	No	No
75	Fireside Chat with Investors	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	25-05-2019 00:00:00	25-05-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
76	Building a Financial Plan	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	26-05-2019 00:00:00	26-05-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
77	Legal Compliance	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	08-06-2019 00:00:00	08-06-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
78	IPR for Startups	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	08-06-2019 00:00:00	08-06-2019 00:00:00	1	Within Campus	0	2	29	0	31	No	No
79	Fundraising Strategy	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	09-06-2019 00:00:00	09-06-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
80	HR & Team Management	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	22-06-2019 00:00:00	22-06-2019 00:00:00	1	Within Campus	0	2	27	0	29	No	No
81	Founder's Experience	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	23-06-2019 00:00:00	23-06-2019 00:00:00	1	Within Campus	0	2	29	0	31	No	No
82	Corporate Connect - Cisco	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	TIDES	23-06-2019 00:00:00	23-06-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No

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

83	Founder's Interaction	Entrepreneurship/Startup	Mentoring Session	Institute Lead Activity	TIDES	06-07-2019 00:00:00	06-07-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
84	Product & Technology Mentoring	Entrepreneurship/Startup	Mentoring Session	Institute Lead Activity	TIDES	07-07-2019 00:00:00	07-07-2019 00:00:00	1	Within Campus	0	2	28	0	30	No	No
85	Corporate - AirBus	Entrepreneurship/Startup	Exposure visit	Institute Lead Activity	TIDES	24-07-2019 00:00:00	24-07-2019 00:00:00	1	Outside Campus	0	28	0	0	28	No	No
86	Corporate - NVIDIA	Entrepreneurship/Startup	Exposure visit	Institute Lead Activity	TIDES	25-07-2019 00:00:00	25-07-2019 00:00:00	1	Outside Campus	0	2	28	0	30	No	No
87	Corporate - Target Corporation	Entrepreneurship/Startup	Exposure visit	Institute Lead Activity	TIDES	26-07-2019 00:00:00	26-07-2019 00:00:00	1	Outside Campus	0	2	28	0	30	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**

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	Facility Exposure	Innovation	Workshop	Tinkering Lab	Educational Institute	13-05-2019 00:00:00	13-05-2019 00:00:00	1	2	0	2	No	---	---	No	No						
2	SAE Aero Design Challenge 2020	Innovation	B-Plan Competitions	SAEISS	Educational Institute	28-02-2020 00:00:00	01-03-2020 00:00:00	3	9	2	11	Yes	26 position	SAE Aero Design Challenge 2020	210000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>26 position</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>SAE Aero Design Challenge 2020</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	26 position	Title of Innovation / Start-up Secured the Award / Recognition	SAE Aero Design Challenge 2020	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	26 position																					
Title of Innovation / Start-up Secured the Award / Recognition	SAE Aero Design Challenge 2020																					
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**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	Formula Green 2020	Innovation	B-Plan Competitions	ISNEE Motorsports	Educational Institute	10-02-2020 00:00:00	14-02-2020 00:00:00	5	38	2	40	Yes	3 rd rank	Formula Green 2020	Total Total Expense Amount Incurred by Institute? (In Rupees)	2660800	Award / Position / Recognition Secured	3 rd rank	Title of Innovation / Start-up Secured the Award / Recognition	Formula Green 2020	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
4	Formula Green 2020 Theme-Acceleration	Innovation	B-Plan Competitions	ISNEE Motorsports	Educational Institute	10-02-2020 00:00:00	14-02-2020 00:00:00	5	38	2	40	Yes	1 st	Formula Green 2020 Theme-Acceleration	Total Total Expense Amount Incurred by Institute? (In Rupees)	2660800	Award / Position / Recognition Secured	1 st	Title of Innovation / Start-up Secured the Award / Recognition	Formula Green 2020 Theme-Acceleration	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
5	Formula Green 2020 Theme-Cost-Manufacturing	Innovation	B-Plan Competitions	ISNEE Motorsports	Educational Institute	10-02-2020 00:00:00	14-02-2020 00:00:00	5	38	2	40	Yes	2 nd	Formula Green 2020 Theme-Cost-Manufacturing	Total Total Expense Amount Incurred by Institute? (In Rupees)	2660800	Award / Position / Recognition Secured	2 nd	Title of Innovation / Start-up Secured the Award / Recognition	Formula Green 2020 Theme-Cost-Manufacturing	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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6	Formula Green 2020 Theme-Business presentation	Entrepreneurship/Startup	B-Plan Competitions	ISNEE Motorsports	Educational Institute	10-02-2020 00:00:00	14-02-2020 00:00:00	5	38	2	40	Yes	2 nd	Formula Green 2020 Theme-Business presentation	Total Total Expense Amount Incurred by Institute? (In Rupees)	2660800	Award / Position / Recognition Secured	2 nd	Title of Innovation / Start-up Secured the Award / Recognition	Formula Green 2020 Theme-Business presentation	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
7	Formula Green 2020 Theme-Engineering design report	Innovation	B-Plan Competitions	ISNEE Motorsports	Educational Institute	10-02-2020 00:00:00	14-02-2020 00:00:00	5	38	2	40	Yes	3rd	Formula Green 2020 Theme-Engineering design report	Total Total Expense Amount Incurred by Institute? (In Rupees)	2660800	Award / Position / Recognition Secured	3rd	Title of Innovation / Start-up Secured the Award / Recognition	Formula Green 2020 Theme-Engineering design report	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
8	NSSC Hoverpod	Innovation	B-Plan Competitions	IIT Kharagpur	Educational Institute	02-11-2019 00:00:00	04-11-2019 00:00:00	3	1	2	3	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	40000	No					
9	BAJA SAE India	Innovation	B-Plan Competitions	NATRAX, Pithampur	Educational Institute	22-01-2020 00:00:00	26-01-2020 00:00:00	5	1	2	3	Yes	17 rank overall	17 ranked overall in Baja SAE India	Total Total Expense Amount Incurred by Institute? (In Rupees)	1390000	Award / Position / Recognition Secured	17 rank overall	Title of Innovation / Start-up Secured the Award / Recognition	17 ranked overall in Baja SAE India	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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10	ASME Human Powered Vehicle Challenge	Innovation	B-Plan Competitions	ASME Asia Pacific	Educational Institute	28-02-2020 00:00:00	01-03-2020 00:00:00	3	11	2	13	Yes	1 st	Design Event	Total Total Expense Amount Incurred by Institute? (In Rupees)	206000	Award / Position / Recognition Secured	1 st
																	Title of Innovation / Start-up Secured the Award / Recognition	Design Event
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
11	ASME Human Powered Vehicle Challenge	Innovation	B-Plan Competitions	ASME Asia Pacific	Educational Institute	28-02-2020 00:00:00	01-03-2020 00:00:00	3	11	2	13	Yes	4 th	overall 4 th rank	Total Total Expense Amount Incurred by Institute? (In Rupees)	206000	Award / Position / Recognition Secured	4 th
																	Title of Innovation / Start-up Secured the Award / Recognition	overall 4 th rank
																	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
12	ASME Student Design Competition	Innovation	B-Plan Competitions	ASME Asia Pacific	Educational Institute	28-02-2020 00:00:00	01-03-2020 00:00:00	3	6	2	8	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	168000	No	
13	Enactus Nationals	Innovation	B-Plan Competitions	Enactus, India	Educational Institute	25-07-2019 00:00:00	08-08-2019 00:00:00	15	30	2	32	No	---	---	No		No	
14	Workshop on Building Disaster and Climate Resilience in Cities	Innovation	Workshop	Asian Network on Climate Science and Technology (ANCST) coordinated by SEADPR   Universiti Kebangsaan Malaysia	International Agencies	15-10-2019 00:00:00	16-10-2019 00:00:00	2	2	1	3	No	---	---	No		No	
15	IC2020	Innovation	Conference	University of Delhi	Govt. Agency (Central)	12-02-2020 00:00:00	13-02-2020 00:00:00	2	2	1	3	No	---	---	No		No	



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16	National Conference on Biotechnology Innovations	Innovation	Conference	Sri Ram Swarup Memorial University Lucknow	Non-Govt. Agencies	27-09-2019 00:00:00	28-09-2019 00:00:00	2	2	1	3	No	---	---	No	No
17	Biosangam-2020	Innovation	Conference	MNNIT Allahabad	Educational Institute	21-02-2020 00:00:00	23-02-2020 00:00:00	3	2	1	3	No	---	---	No	No
18	36th Convention of Indian Association of Sedimentologists (IAS)	Innovation	Seminar	AMD Hyderabad	Govt. Agency (Central)	07-11-2019 00:00:00	08-11-2019 00:00:00	2	2	1	3	No	---	---	No	No
19	Emerging Technologies for Next-generation Bio-fuels and Bio-products	Innovation	Orientation Session	National Institute of Technology Jalandhar	Govt. Agency (Central)	21-02-2020 00:00:00	25-02-2020 00:00:00	5	0	1	1	No	---	---	No	No
20	MolSim-2019	Innovation	Exhibition	IIT Kanpur	Govt. Agency (Central)	21-02-2020 00:00:00	23-02-2020 00:00:00	3	0	1	1	No	---	---	No	No
21	IOCSE-2020	Innovation	Conference	Raja Balwant Singh Engineering Technical Campus, Agra	Govt. Agency (State)	27-02-2020 00:00:00	29-02-2020 00:00:00	3	0	1	1	No	---	---	No	No
22	International Conference on Innovation and Opportunities in Chemical Engineering for Sustainable Environment and Energy	Innovation	Conference	Agra	Govt. Agency (State)	27-02-2020 00:00:00	29-02-2020 00:00:00	3	0	1	1	No	---	---	No	No
23	CISCT-2019	Innovation	Conference	GEU Dehradun	Non-Govt. Agencies	11-10-2019 00:00:00	12-10-2019 00:00:00	2	0	1	1	No	---	---	No	No
24	PM-STIAC	Innovation	Mentoring Session	PM-STIAC	Govt. Agency (Central)	04-11-2019 00:00:00	04-11-2019 00:00:00	1	0	1	1	No	---	---	No	No

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25	2 nd International Congress on Urban and Civil Engineering	Innovation	Conference	Bangkok	International Agencies	21-10-2019 00:00:00	22-10-2019 00:00:00	2	0	1	1	No	---	---	No	No						
26	Int Conf. on Innovative Engineering Design	Innovation	Conference	NIT Uttarakhand and IIT Roorkee	Govt. Agency (Central)	18-02-2020 00:00:00	20-02-2020 00:00:00	3	0	1	1	No	---	---	No	No						
27	Himalayan Summit	Innovation	Awareness	DIC, IIT Roorkee	Govt. Agency (Central)	21-05-2019 00:00:00	21-05-2019 00:00:00	1	75	10	85	No	---	---	No	No						
28	Creating inclusive organizations- Spirituality innovation and sustainability	Innovation	Awareness	Said Business school, University of Oxford, UK	International Agencies	07-06-2019 00:00:00	08-06-2019 00:00:00	2	0	2	2	No	---	---	No	No						
29	GYTI-2019	Innovation	Innovation Contest	BIRAC-SRISTI	Govt. Agency (Central)	06-07-2019 00:00:00	06-07-2019 00:00:00	1	1	1	2	Yes	BIRAC-SRISTI- Gandhian Young Technological Innovation	Magnetic field actuated hybrid nanofiber scaffold and apparatus for 4D tissue engineering	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>BIRAC-SRISTI- Gandhian Young Technological Innovation</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Magnetic field actuated hybrid nanofiber scaffold and apparatus for 4D tissue engineering</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	BIRAC-SRISTI- Gandhian Young Technological Innovation	Title of Innovation / Start-up Secured the Award / Recognition	Magnetic field actuated hybrid nanofiber scaffold and apparatus for 4D tissue engineering	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	BIRAC-SRISTI- Gandhian Young Technological Innovation																					
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Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					

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30	CSIR-NEERI CHEMCON	Innovation	Seminar	IChE	Govt. Agency (Central)	27-12-2019 00:00:00	30-12-2019 00:00:00	4	0	1	1	Yes	Speaker Award Indian Institute of Chemical Engineers (IChE), 2019.	Distinguished Speaker Award 2019	No	Award / Position / Recognition Secured	Speaker Award Indian Institute of Chemical Engineers (IChE), 2019.
																Title of Innovation / Start-up Secured the Award / Recognition	Distinguished Speaker Award 2019
																Award/Recognition/Achievement Received for	Novel Research Paper/Work
31	USSTC	Innovation	Conference	UCOST	Govt. Agency (State)	27-02-2020 00:00:00	29-02-2020 00:00:00	3	0	1	1	Yes	Lead Speaker in the Computer Science discipline	Lead Speaker in the Computer Science discipline for 14th Uttarakhand State Science and Technology Congress	No	Award / Position / Recognition Secured	Lead Speaker in the Computer Science discipline
																Title of Innovation / Start-up Secured the Award / Recognition	Lead Speaker in the Computer Science discipline for 14th Uttarakhand State Science and Technology Congress
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
32	23rd National Conference on e-Governance	Innovation	Conference	Minister of State (Independent Charge)	Govt. Agency (Central)	07-02-2020 00:00:00	08-02-2020 00:00:00	2	2	1	3	Yes	National Gold award	National Gold award for e-governance for Outstanding Research	No	Award / Position / Recognition Secured	National Gold award
																Title of Innovation / Start-up Secured the Award / Recognition	National Gold award for e-governance for Outstanding Research
																Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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33	INAE	Innovation	Innovation Contest	Indian National Academy of Engineering	Govt. Agency (Central)	12-12-2019 00:00:00	14-12-2019 00:00:00	3	1	1	2	Yes	Award Doctoral Level Category	Innovative Student Projects Award Doctoral Level Category	No	Award / Position / Recognition Secured	Award Doctoral Level Category	Title of Innovation / Start-up Secured the Award / Recognition	Innovative Student Projects Award Doctoral Level Category	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
34	Annual Journalism Award	Innovation	Skill development	National Union of Journalism, Haridwar	Govt. Agency (Central)	22-10-2019 00:00:00	22-10-2019 00:00:00	1	0	1	1	Yes	Ganesh Shankar Vidyarthi Samman (Award)	Ganesh Shankar Vidyarthi Samman (Award) for special contribution in technical field	No	Award / Position / Recognition Secured	Ganesh Shankar Vidyarthi Samman (Award)	Title of Innovation / Start-up Secured the Award / Recognition	Ganesh Shankar Vidyarthi Samman (Award) for special contribution in technical field	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
35	International Conference on Innovative Engg Design	Innovation	Conference	NIT Uttarakhand, IIT Roorkee and IE, Uttarakhand	Govt. Agency (Central)	18-01-2020 00:00:00	20-01-2020 00:00:00	3	0	1	1	Yes	Best Paper Award	Awarded Best Paper in International Conference on Innovative Engg Design - 2020 (ICOIED-2020)	No	Award / Position / Recognition Secured	Best Paper Award	Title of Innovation / Start-up Secured the Award / Recognition	Awarded Best Paper in International Conference on Innovative Engg Design - 2020 (ICOIED-2020)	Award/Recognition/Achievement Received for	Novel Research Paper/Work

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36	Eminent Engineers Award on Engineers Day	Innovation	Orientation Session	Institution of Engineers Uttarakhand	Govt. Agency (State)	15-09-2019 00:00:00	15-09-2019 00:00:00	1	0	1	1	Yes	Eminent Engineers Award	Eminent Engineers Award in the area of Water Resources Management, Rainwater Harvesting and Climate Change.	No	Award / Position / Recognition Secured	Eminent Engineers Award	Title of Innovation / Start-up Secured the Award / Recognition	Eminent Engineers Award in the area of Water Resources Management, Rainwater Harvesting and Climate Change.	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
37	International Conference World Aqua Congress 2019	Innovation	Conference	Aqua Foundation	Non-Govt. Agencies	07-11-2019 00:00:00	08-11-2019 00:00:00	2	0	1	1	Yes	Aqua Foundations Excellence Award 2019	Substantial contribution in the area of water resources management in academics.	No	Award / Position / Recognition Secured	Aqua Foundations Excellence Award 2019	Title of Innovation / Start-up Secured the Award / Recognition	Substantial contribution in the area of water resources management in academics.	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
38	Bharat Vikas Award 2019	Innovation	Innovation Contest	Institute of Self Reliance, Bhubaneswar	Govt. Agency (Central)	14-12-2019 00:00:00	14-12-2019 00:00:00	1	0	1	1	Yes	Bharat Vikas Award 2019	Treatment of contaminated Groundwater and wastewater	No	Award / Position / Recognition Secured	Bharat Vikas Award 2019	Title of Innovation / Start-up Secured the Award / Recognition	Treatment of contaminated Groundwater and wastewater	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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39	National Winner JPMC Quant Challenge 2019	Innovation	B-Plan Competitions	J P Morgan	International Agencies	29-09-2019 00:00:00	05-10-2019 00:00:00	7	5	0	5	Yes	National Winner JPMC Quant Challenge 2019	National Winner JPMC Quant Challenge 2019	No	Award / Position / Recognition Secured	National Winner JPMC Quant Challenge 2019	Title of Innovation / Start-up Secured the Award / Recognition	National Winner JPMC Quant Challenge 2019	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
40	Indias first-ever Algo trading tournament	Innovation	B-Plan Competitions	Lambda by AsknBid	Non-Govt. Agencies	01-09-2019 00:00:00	30-09-2019 00:00:00	30	1	0	1	Yes	1st Prize-Lambda by AsknBid	1st Prize-Lambda by AsknBid	No	Award / Position / Recognition Secured	1st Prize-Lambda by AsknBid	Title of Innovation / Start-up Secured the Award / Recognition	1st Prize-Lambda by AsknBid	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
41	Curated and Organised 100 years of Bauhaus titled Bauhaus at 100 Design	Innovation	Innovation Contest	German Center for Research and Innovation	International Agencies	24-05-2019 00:00:00	24-05-2019 00:00:00	1	0	1	1	Yes	Curated an Organised 100 years of Bauhaus titled Bauhaus 100 Design-Yesterday and Tomorrow	Curated an Organised 100 years of Bauhaus titled Bauhaus 100 Design	No	Award / Position / Recognition Secured	Curated an Organised 100 years of Bauhaus titled Bauhaus 100 Design-Yesterday and Tomorrow	Title of Innovation / Start-up Secured the Award / Recognition	Curated an Organised 100 years of Bauhaus titled Bauhaus 100 Design	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype

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42	6th Conference on Good Governance	Innovation	Conference	Y S Research Foundation of Public Administration	Govt. Agency (State)	30-08-2019 00:00:00	30-08-2019 00:00:00	1	0	1	1	Yes	Fellow award in innovation	Fellow award in innovation on 6 conference on good governance	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Fellow award in innovation</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Fellow award in innovation on 6 conference on good governance</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Fellow award in innovation	Title of Innovation / Start-up Secured the Award / Recognition	Fellow award in innovation on 6 conference on good governance	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Fellow award in innovation																					
Title of Innovation / Start-up Secured the Award / Recognition	Fellow award in innovation on 6 conference on good governance																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					
43	Technological Innovations and Challenges in Biomedical Instrumentation	Innovation	Workshop	GBPIET Pauri, Uttarakhand	Govt. Agency (Central)	25-11-2019 00:00:00	25-11-2019 00:00:00	1	0	1	1	No	---	---	No	No						
44	NASI Scopus	Innovation	Innovation Contest	NASI Scopus	Govt. Agency (Central)	08-11-2019 00:00:00	08-11-2019 00:00:00	1	0	1	1	Yes	Young Scientist Award	Young Scientist Award (finalist) in the field of Innovation in Engineering and Physical Science	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Young Scientist Award</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Young Scientist Award (finalist) in the field of Innovation in Engineering and Physical Science</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Young Scientist Award	Title of Innovation / Start-up Secured the Award / Recognition	Young Scientist Award (finalist) in the field of Innovation in Engineering and Physical Science	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Young Scientist Award																					
Title of Innovation / Start-up Secured the Award / Recognition	Young Scientist Award (finalist) in the field of Innovation in Engineering and Physical Science																					
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																					
45	Alpha Quality Project 2019	Innovation	Innovation Contest	Worldquant	International Agencies	05-06-2019 00:00:00	05-06-2019 00:00:00	1	1	0	1	Yes	Global rank 12-Alpha Quality Project	Global rank 12-Alpha Quality Project	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>Global rank 12-Alpha Quality Project</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Global rank 12-Alpha Quality Project</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>	Award / Position / Recognition Secured	Global rank 12-Alpha Quality Project	Title of Innovation / Start-up Secured the Award / Recognition	Global rank 12-Alpha Quality Project	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
Award / Position / Recognition Secured	Global rank 12-Alpha Quality Project																					
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46	62nd National Association of Students of Architecture Convention in Bengaluru	Innovation	Exhibition	National Association of Students of Architecture	Non-Govt. Agencies	07-02-2020 00:00:00	10-02-2020 00:00:00	4	1	0	1	Yes	GRIHA trophy	GRIHA trophy, along with a prize money of Rs 75,000	No	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>GRIHA trophy</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>GRIHA trophy, along with a prize money of Rs 75,000</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>		Award / Position / Recognition Secured	GRIHA trophy	Title of Innovation / Start-up Secured the Award / Recognition	GRIHA trophy, along with a prize money of Rs 75,000	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype			
Award / Position / Recognition Secured	GRIHA trophy																									
Title of Innovation / Start-up Secured the Award / Recognition	GRIHA trophy, along with a prize money of Rs 75,000																									
Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																									
47	Smart India Hardware Hackathon-Neerax	Innovation	Hackathon	IISER Pune	Educational Institute	08-07-2019 00:00:00	12-07-2019 00:00:00	5	6	2	8	Yes	2nd	Water extraction system, Theme-Generation of water from thin air	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>22000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)	22000	<table border="1"> <tr> <td>Award / Position / Recognition Secured</td> <td>2nd</td> </tr> <tr> <td>Title of Innovation / Start-up Secured the Award / Recognition</td> <td>Water extraction system, Theme-Generation of water from thin air</td> </tr> <tr> <td>Award/Recognition/Achievement Received for</td> <td>Idea/Innovation/Prototype</td> </tr> </table>		Award / Position / Recognition Secured	2nd	Title of Innovation / Start-up Secured the Award / Recognition	Water extraction system, Theme-Generation of water from thin air	Award/Recognition/Achievement Received for	Idea/Innovation/Prototype
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Award/Recognition/Achievement Received for	Idea/Innovation/Prototype																									
48	UBA National Workshop (Tech4Seva) at IIT Delhi	Innovation	Exhibition	IIT Delhi	Educational Institute	10-08-2019 00:00:00	12-08-2019 00:00:00	3	2	1	3	No	---	---	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>20000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)	20000	No							
Total Total Expense Amount Incurred by Institute? (In Rupees)	20000																									
49	All India DIC Meet at IIT Delhi	Innovation	Exhibition	IIT Delhi	Educational Institute	26-09-2019 00:00:00	26-09-2019 00:00:00	1	1	2	3	No	---	---	<table border="1"> <tr> <td>Total Total Expense Amount Incurred by Institute? (In Rupees)</td> <td>75000</td> </tr> </table>		Total Total Expense Amount Incurred by Institute? (In Rupees)	75000	No							
Total Total Expense Amount Incurred by Institute? (In Rupees)	75000																									
50	Uttarakhand Industrial Summit 2019 by CII at Haridwar	Innovation	Exhibition	CII	Corporate / Industry Association	27-09-2019 00:00:00	28-09-2019 00:00:00	2	8	0	8	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**

51	15th FICCI Higher Education Summit 2019, a Global Conference and Exhibition	Innovation	Exhibition	FICCI	Corporate / Industry Association	27-11-2019 00:00:00	29-11-2019 00:00:00	3	2	2	4	No	---	---	Total Total Expense Amount Incurred by Institute? (In Rupees)	172675	No
52	Awareness Workshop for PM Fellowship Scheme for Doctoral Research	Innovation	Workshop	FICCI	Corporate / Industry Association	05-11-2019 00:00:00	05-11-2019 00:00:00	1	60	4	64	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	GIS Base Map Preparation	Innovation	Short term Course	Short Term Certificate Course	Continuing education center	10-06-2019	16-06-2019	7	Offline	20	49
2	Machine Learning with Python for Practical Examples	Innovation	Short term Course	Short Term Certificate Course	Continuing education center	24-06-2019	28-06-2019	5	Offline	30	35
3	Control Theory and Its Applications	Innovation	Short term Course	Short Term Certificate Course	Continuing education center	09-07-2019	12-07-2019	4	Offline	21	30
4	Wind Power-Emerging Technology	Innovation	Short term Course	Short Term Certificate Course	Continuing education center	26-08-2019	30-08-2019	5	Offline	25	35
5	Regulatory Framework and Operation of Power Station	Innovation	Short term Course	Short Term Certificate Course	Continuing education center	02-09-2019	06-09-2019	5	Offline	24	35
6	Hydraulic Turbine Testing	Innovation	Short term Course	Short Term Certificate Course	Continuing education center	09-09-2019	13-09-2019	5	Offline	24	35
7	Sediment Monitoring and Abrasion Testing	Innovation	Short term Course	Short Term Certificate Course	Continuing education center	04-11-2019	08-11-2019	5	Offline	21	35
8	Risk Targeted Seismic Design	Innovation	Short term Course	Short Term Certificate Course	Continuing education center	18-02-2020	22-02-2020	5	Offline	25	35
9	Integration with Renewable Energy	Innovation	Short term Course	Short Term Certificate Course	Continuing Education Centre	19-08-2019	23-08-2019	5	Offline	25	35
10	Program on Small Hydropower development	Innovation	Short term Course	Short Term Certificate Course	Continuing Education Centre	16-09-2019	28-09-2019	13	Offline	21	91

11	Environmental Management in Tanneries	Innovation	Short term Course	Short Term Certificate Course	Continuing Education Centre	13-01-2020	17-01-2020	5	Offline	18	35
12	Integration with Renewable Energy	Innovation	Short term Course	Short Term Certificate Course	Continuing Education Centre	20-01-2020	24-01-2020	5	Offline	24	35
13	Solar Power-Emerging Technology	Innovation	Short term Course	Short Term Certificate Course	Continuing Education Centre	27-01-2020	31-01-2020	5	Offline	23	35
14	Disaster Recovery And Build Back Better	Innovation	Elective/Core Credit Course	Bachelor	Architecture	26-08-2019	18-10-2019	54	Online	1007	30
15	Culturally Responsive Built Environments	Innovation	Elective/Core Credit Course	Master	Architecture	26-08-2019	18-10-2019	54	Online	893	30
16	Contemporary Architecture and Design	Innovation	Elective/Core Credit Course	Bachelor	Architecture	26-08-2019	18-10-2019	54	Online	1481	30
17	Role of Craft and Technology in Interior - Architecture	Innovation	Elective/Core Credit Course	Master	Architecture	29-07-2019	20-09-2019	54	Online	1245	30
18	Chemical Process Safety	Innovation	Elective/Core Credit Course	Bachelor	Chemical Engineering	29-07-2019	18-10-2019	82	Online	2052	30
19	Introduction to Polymer Physics	Innovation	Elective/Core Credit Course	Bachelor	Chemical Engineering	29-07-2019	18-10-2019	82	Online	389	30
20	Technologies For Clean And Renewable Energy Production	Innovation	Elective/Core Credit Course	Bachelor	Chemical Engineering	29-07-2019	20-09-2019	54	Online	2185	30
21	Remote Sensing and Digital Image Processing of Satellite Data	Innovation	Elective/Core Credit Course	Bachelor	Civil Engineering	26-08-2019	18-10-2019	54	Online	3083	30
22	Microelectronics	Innovation	Elective/Core Credit Course	Master	Electrical Engineering	29-07-2019	18-10-2019	82	Online	4174	30
23	DC Microgrid and Control System	Innovation	Elective/Core Credit Course	Master	Electrical Engineering	29-07-2019	20-09-2019	54	Online	2915	30
24	Advanced Linear Continuous Control Systems	Innovation	Elective/Core Credit Course	Bachelor	Electrical Engineering	29-07-2019	20-09-2019	54	Online	4723	30
25	Electrical Distribution System Analysis	Innovation	Elective/Core Credit Course	Bachelor	Electrical Engineering	29-07-2019	20-09-2019	54	Online	3443	30
26	Introduction to Smart Grid	Innovation	Elective/Core Credit Course	Bachelor	Electrical Engineering	27-07-2019	20-09-2019	56	Online	5492	30
27	Soft skills	Innovation	Elective/Core Credit Course	Bachelor	Humanities and Social Sciences	29-07-2019	18-10-2019	82	Online	13736	30
28	Interpersonal Skills	Innovation	Elective/Core Credit Course	Bachelor	Humanities and Social Sciences	29-07-2019	20-09-2019	54	Online	6568	30
29	Training Of Trainers	Innovation	Elective/Core Credit Course	Bachelor	Management	29-07-2019	18-10-2019	82	Online	2191	30
30	Management Accounting	Innovation	Elective/Core Credit Course	Bachelor	Management	29-07-2019	18-10-2019	82	Online	2079	30
31	Financial Derivatives with risk management	Innovation	Elective/Core Credit Course	Master	Management	29-07-2019	18-10-2019	82	Online	3398	30

32	Working Capital Management	Innovation	Elective/Core Credit Course	Master	Management	29-07-2019	18-10-2019	82	Online	2114	30
33	Project management for managers	Innovation	Elective/Core Credit Course	Bachelor	Management	29-07-2019	18-10-2019	82	Online	3378	30
34	Toyota Production System	Innovation	Elective/Core Credit Course	Bachelor	Management	26-08-2019	18-10-2019	54	Online	2965	30
35	Marketing research and analysis	Innovation	Short term Course	Bachelor	Management	26-08-2019	18-10-2019	54	Online	6107	30
36	Innovation and Entrepreneurship	Innovation	Elective/Core Credit Course	Master	Management	26-08-2019	18-10-2019	54	Online	6268	30
37	Business Analytics -Text Mining Modeling Using Python	Innovation	Elective/Core Credit Course	Bachelor	Management	29-07-2019	20-09-2019	54	Online	4133	30
38	Higher Engineering Mathematics	Innovation	Elective/Core Credit Course	Master	Mathematics	29-07-2019	18-10-2019	82	Online	1903	30
39	Operations Research	Innovation	Elective/Core Credit Course	Bachelor	Mathematics	29-07-2019	20-09-2019	54	Online	3829	30
40	Numerical methods	Innovation	Elective/Core Credit Course	Bachelor	Mathematics	26-08-2019	18-10-2019	54	Online	4524	30
41	Matrix Analysis with Applications	Innovation	Elective/Core Credit Course	Master	Mathematics	26-08-2019	18-10-2019	54	Online	4500	30
42	Fundamentals of manufacturing processes	Innovation	Elective/Core Credit Course	Master	Mechanical Engineering	29-07-2019	18-10-2019	82	Online	7564	30
43	Work System Design	Innovation	Elective/Core Credit Course	Master	Mechanical Engineering	29-07-2019	18-10-2019	82	Online	1556	30
44	Fundamentals of Surface Engineering	Innovation	Elective/Core Credit Course	Master	Mechanical Engineering	29-07-2019	18-10-2019	82	Online	744	30
45	Principles of Metal Forming Technology	Innovation	Elective/Core Credit Course	Master	Mechanical Engineering	29-07-2019	20-09-2019	54	Online	2086	30
46	Refrigeration and air-conditioning	Innovation	Elective/Core Credit Course	Bachelor	Mechanical Engineering	29-07-2019	20-09-2019	54	Online	5634	30
47	Welding Metallurgy	Innovation	Elective/Core Credit Course	Bachelor	Metallurgy - Materials Engineering	29-07-2019	18-10-2019	82	Online	1167	30
48	Thermo-Mechanical And Thermo-Chemical Processes	Innovation	Elective/Core Credit Course	Bachelor	Metallurgical - Materials Engineering	29-07-2019	20-09-2019	54	Online	231	30
49	Solar Photovoltaics Fundamentals	Innovation	Elective/Core Credit Course	Bachelor	Physics	29-07-2019	20-09-2019	54	Online	2885	30
50	Sustainable Architecture	Innovation	Elective/Core Credit Course	Bachelor	Architecture and Planning	27-01-2020	17-04-2020	82	Online	2075	30
51	The Synergy	Innovation	Elective/Core Credit Course	Bachelor	Architecture and Planning	27-01-2020	20-03-2020	54	Online	1515	30
52	Waste to Energy Conversion	Innovation	Elective/Core Credit Course	Bachelor	Chemical Engineering	27-01-2020	20-03-2020	54	Online	3923	30
53	Applied Environmental Microbiology	Innovation	Elective/Core Credit Course	Master	Civil Engineering	27-01-2020	17-04-2020	82	Online	2561	30
54	Geomorphology	Innovation	Elective/Core Credit Course	Master	Civil Engineering	27-01-2020	17-04-2020	82	Online	785	30

55	Remote Sensing Essentials	Innovation	Elective/Core Credit Course	Master	Civil Engineering	27-01-2020	17-04-2020	82	Online	2308	30
56	Environmental Remediation of Contaminated Sites	Innovation	Elective/Core Credit Course	Master	Civil Engineering	27-01-2020	17-04-2020	82	Online	1577	30
57	Digital Land Surveying And Mapping (DLS and M)	Innovation	Elective/Core Credit Course	Master	Civil Engineering	24-02-2020	17-04-2020	54	Online	5803	30
58	Data Analytics with Python	Innovation	Elective/Core Credit Course	Master	Computer Science and Engineering	27-01-2020	17-04-2020	82	Online	29387	30
59	Power Quality Improvement Technique	Innovation	Elective/Core Credit Course	Master	Electrical and Electronics Engineering	27-01-2020	20-03-2020	54	Online	2885	30
60	Advance power electronics and Control	Innovation	Elective/Core Credit Course	Master	Electrical and Electronics Engineering	27-01-2020	20-03-2020	54	Online	6839	30
61	CMOS Digital VLSI Design	Innovation	Elective/Core Credit Course	Master	Electrical and Electronics Engineering	27-01-2020	20-03-2020	54	Online	9259	30
62	Introduction to Environmental Economics	Innovation	Elective/Core Credit Course	Master	Humanities and Social Sciences	27-01-2020	17-04-2020	82	Online	1608	30
63	Literature- culture- Media	Innovation	Elective/Core Credit Course	Master	Humanities and Social Sciences	27-01-2020	17-04-2020	82	Online	1171	30
64	Strategic Trade and protectionism-Theories and Empirics	Innovation	Elective/Core Credit Course	Master	Humanities and Social Sciences	27-01-2020	20-03-2020	54	Online	257	30
65	Production and Operation Management	Innovation	Elective/Core Credit Course	Master	Management	27-01-2020	17-04-2020	82	Online	1996	30
66	Managerial Skills for Interpersonal Dynamics	Innovation	Elective/Core Credit Course	Master	Management	27-01-2020	17-04-2020	82	Online	4528	30
67	Financial Statement Analysis and Reporting	Innovation	Elective/Core Credit Course	Master	Management	27-01-2020	17-04-2020	82	Online	4031	30
68	Business Statistics	Innovation	Elective/Core Credit Course	Master	Management	27-01-2020	17-04-2020	82	Online	5800	30
69	Business analytics and data mining Modeling using R	Innovation	Elective/Core Credit Course	Master	Management	27-01-2020	17-04-2020	82	Online	4891	30
70	Marketing Research and Analysis-II	Innovation	Elective/Core Credit Course	Master	Management	27-01-2020	17-04-2020	82	Online	1684	30
71	Financial Management For Managers	Innovation	Elective/Core Credit Course	Master	Management	27-01-2020	17-04-2020	82	Online	5387	30
72	Services Marketing	Innovation	Elective/Core Credit Course	Master	Management	24-02-2020	17-04-2020	54	Online	1782	30
73	Global Marketing Management	Innovation	Elective/Core Credit Course	Bachelor	Management	24-02-2020	17-04-2020	54	Online	6951	30
74	Supply Chain Analytics	Innovation	Elective/Core Credit Course	Bachelor	Management	27-01-2020	20-03-2020	54	Online	2826	30
75	Numerical Linear Algebra	Innovation	Elective/Core Credit Course	Master	Mathematics	27-01-2020	17-04-2020	82	Online	1264	30

76	Ordinary and Partial Differential Equations and Applications	Innovation	Elective/Core Credit Course	Bachelor	Mathematics	27-01-2020	17-04-2020	82	Online	2180	30
77	Advanced Engineering Mathematics	Innovation	Elective/Core Credit Course	Bachelor	Mathematics	27-01-2020	17-04-2020	82	Online	3949	30
78	Mathematical Methods and its Applications	Innovation	Elective/Core Credit Course	Bachelor	Mathematics	27-01-2020	17-04-2020	82	Online	1925	30
79	Multivariable calculus	Innovation	Elective/Core Credit Course	Bachelor	Mathematics	27-01-2020	20-03-2020	54	Online	1535	30
80	Operations Management	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	27-01-2020	17-04-2020	82	Online	2111	30
81	Financial Mathematics	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	27-01-2020	17-04-2020	82	Online	2056	30
82	Principles of Industrial Engineering	Innovation	Elective/Core Credit Course	Bachelor	Mechancial Engineering	27-01-2020	17-04-2020	82	Online	2132	30
83	Robotics and Control	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	27-01-2020	20-03-2020	54	Online	8837	30
84	Acoustic Metamaterials	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	27-01-2020	20-03-2020	54	Online	1407	30
85	Power Plant Engineering	Innovation	Elective/Core Credit Course	Bachelor	Mechancial Engineering	27-01-2020	20-03-2020	54	Online	4766	30
86	Automatic Control	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	27-01-2020	20-03-2020	54	Online	3031	30
87	Failure analysis and Prevention	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	24-02-2020	17-04-2020	54	Online	2445	30
88	Processing of Polymers and Polymer Composites	Innovation	Elective/Core Credit Course	Bachelor	Mechancial Engineering	27-01-2020	20-03-2020	54	Online	1975	30
89	Steam and Gas Power Systems	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	24-02-2020	17-04-2020	54	Online	3041	30
90	Principles of Casting Technology	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	27-01-2020	20-03-2020	54	Online	2350	30
91	Modelling and Simulation of Dynamic Systems	Innovation	Elective/Core Credit Course	Master	Mechancial Engineering	27-01-2020	20-03-2020	54	Online	1312	30
92	Modeling of tundish steelmaking process in continuous casting	Innovation	Elective/Core Credit Course	Master	Metallurgical and Materials Engineering	27-01-2020	20-03-2020	54	Online	181	30
93	Materials Science and Engineering	Innovation	Elective/Core Credit Course	Bachelor	Metallurgical and Materials Engineering	27-01-2020	20-03-2020	54	Online	1881	30
94	Surface Engineering of Nanomaterials	Innovation	Elective/Core Credit Course	Master	Metallurgical and Materials Engineering	27-01-2020	20-03-2020	54	Online	1940	30
95	Friction and Wear of materials	Innovation	Elective/Core Credit Course	Master	Metallurgical and Materials Engineering	27-01-2020	20-03-2020	54	Online	469	30
96	Introduction to Atmospheric and Space Sciences	Innovation	Elective/Core Credit Course	Master	Physics	27-01-2020	17-04-2020	82	Online	1796	30
97	Fiber Optics	Innovation	Elective/Core Credit Course	Master	Physics	27-01-2020	20-03-2020	54	Online	2464	30

98	Recent Advancements on Software Technologies	Innovation	Short term Course	Short Term Certificate Course	Computer Science and Engineering	11-01-2020	15-03-2020	65	Offline	21	30
99	Research Ethics- IPR and Entrepreneurship	IPR, Innovation	Short term Course	Short Term Certificate Course	Management Studies	29-04-2020	03-05-2020	5	Offline	17	30
100	Pattern Recognition and Image Processing	Innovation	Short term Course	Short Term Certificate Course	Computer Science and Engineering	03-06-2020	07-06-2020	5	Offline	15	30
101	Hands-on Training on Nanobiotechnology	Innovation	Short term Course	Short Term Certificate Course	Biotechnology	06-05-2020	10-05-2020	5	Offline	13	30
102	Socio-Economic Impact of Transformation in Industry	Innovation	Short term Course	Short Term Certificate Course	Humanities and Social Sciences	13-05-2020	17-05-2020	5	Offline	9	30
103	Simulation of Power Electronic Converters Serving to Hydropower Plants	Innovation	Short term Course	Short Term Certificate Course	Water Resources Development and Management	20-05-2020	24-05-2020	5	Offline	27	30
104	A Case Based Course on Advanced Data Analytics	Innovation	Short term Course	Short Term Certificate Course	Management Studies	20-05-2020	24-05-2020	5	Offline	21	30
105	Digital Land Surveying	Innovation	Short term Course	Short Term Certificate Course	Civil Engineering	22-04-2020	26-04-2020	5	Offline	23	30
106	VLSI Designing and Embedded System	Innovation	Short term Course	Short Term Certificate Course	Electrical Engineering	20-05-2020	24-05-2020	5	Offline	16	30
107	MATHEMATICA as a Teaching Aid	Innovation	Short term Course	Short Term Certificate Course	Mathematics	10-06-2020	14-06-2020	5	Offline	23	30
108	Recent Advancements in Materials Processing and Characterization	Innovation	Short term Course	Short Term Certificate Course	Mechanical and Industrial Engineering	10-06-2020	14-06-2020	5	Offline	18	30
109	System Thinking and Environmental Engineering for Sustainable Decision Making	Innovation	Short term Course	Short Term Certificate Course	Chemical Engineering	03-06-2020	07-06-2020	5	Offline	18	30
110	Advancements in Remote Sensing Data Analysis	Innovation	Short term Course	Short Term Certificate Course	Civil Engineering	17-06-2020	21-06-2020	5	Offline	20	30
111	Scanning Electron Microscopy	Innovation	Short term Course	Short Term Certificate Course	Metallurgical and Materials Engineering	17-06-2020	21-06-2020	5	Offline	22	30
112	Applied Groundwater Flow and Contaminant Transport Modelling	Innovation	Short term Course	Short Term Certificate Course	Hydrology	24-06-2020	28-06-2020	5	Offline	14	30
113	Predictive Analysis Using R	Innovation	Short term Course	Short Term Certificate Course	Management Studies	17-06-2020	21-06-2020	5	Offline	19	30
114	Quality Management	Innovation	Short term Course	Short Term Certificate Course	Mechanical and Industrial Engineering	17-06-2020	21-06-2020	5	Offline	25	30
115	Advance Pedagogy-Digital Tool	Innovation	Short term Course	Short Term Certificate Course	Mechanical and Industrial Engineering	03-06-2020	07-06-2020	5	Offline	17	30
116	Advance Pedagogy - Digital Tool	Innovation	Short term Course	Short Term Certificate Course	Humanities and Social Sciences	03-06-2020	07-06-2020	5	Offline	23	30

117	Advance Pedagogy - Digital Tool	Innovation	Short term Course	Short Term Certificate Course	Humanities and Social Sciences	10-06-2020	14-06-2020	5	Offline	16	30
118	Advance Pedagogy - Digital Tool	Innovation	Short term Course	Short Term Certificate Course	Civil Engineering	17-06-2020	21-06-2020	5	Offline	33	30
119	Advance Pedagogy - Digital Tool	Innovation	Short term Course	Short Term Certificate Course	Department of Management Studies	17-06-2020	21-06-2020	5	Offline	28	30
120	Advance Pedagogy - Digital Tool	Innovation	Short term Course	Short Term Certificate Course	Electronics and Communication Engineering	17-06-2020	21-06-2020	5	Offline	29	30
121	Training of Future Skills Technologies	Innovation	Short term Course	Short Term Certificate Course	Computer Science and Engineering	10-02-2020	21-02-2020	12	Offline	23	30
122	Training of Future Skills Technologies- Robotics and Automation	Innovation	Short term Course	Short Term Certificate Course	Mechanical and Industrial Engineering	01-03-2020	15-03-2020	15	Offline	28	30
123	Innovation Business Models and Entrepreneurship	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Credit Course (Elective)	IPR Chair	01-07-2019	31-12-2019	184	Offline	90	30
124	Innovation Business Models and Entrepreneurship	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Credit Course (Elective)	IPR Chair	01-01-2020	31-07-2020	213	Offline	94	30
125	Innovation-Business Models- Entrepreneurship	Entrepreneurship/Startup, Innovation	Elective/Core Credit Course	Credit Course (Elective)	IPR Chair	01-07-2019	31-07-2020	397	Offline	9000	40

**LiList 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	TIDES Acceleration Program	Entrepreneurship/Startup	Employment Generation Training Programs	TIDES	01-04-2019	31-08-2019	153	Offline	30	85
2	Internet of Things (IoT) with cloud applications	Innovation	FDP in I&E / IPR	GEHU Dehradun	08-01-2019	12-01-2019	5	Offline	34	30
3	MEMS Design- Devices and Challenges	Innovation	FDP in I&E / IPR	GNEC IITR	04-02-2019	08-02-2019	5	Offline	19	30
4	IoT with cloud applications	Innovation	FDP in I&E / IPR	Shri Mata Vaishno Devi University(SMVDU)	04-02-2019	08-02-2019	5	Offline	43	30
5	DIP using MATLAB	Innovation	FDP in I&E / IPR	IITR	18-02-2019	22-02-2019	5	Offline	69	30
6	IoT	Innovation	FDP in I&E / IPR	DCRUST Murthal	25-02-2019	01-03-2019	5	Offline	40	30
7	Image Processing using VLSI Architecture	Innovation	FDP in I&E / IPR	IITR	26-03-2019	30-03-2019	5	Offline	65	30
8	Robotics and Embedded Systems	Innovation	FDP in I&E / IPR	IITR	02-04-2019	06-04-2019	5	Offline	57	30
9	Data Analytics with Python	Innovation	FDP in I&E / IPR	RJIT Gwalior	22-04-2019	26-04-2019	5	Offline	44	30

10	Data Analytics with Python	Innovation	FDP in I&E / IPR	University of Jammu	07-05-2019	12-05-2019	6	Offline	63	30
11	Deep Learning - applications	Innovation	FDP in I&E / IPR	IITR	27-05-2019	31-05-2019	5	Offline	195	30
12	Advancements in Signal Processing and Optimization Techniques (summer NKN2019)	Innovation	FDP in I&E / IPR	IITR	03-06-2019	07-06-2019	5	Offline	103	30
13	Data Analytics with Python	Innovation	FDP in I&E / IPR	IITR	18-06-2019	22-06-2019	5	Offline	102	30
14	IoT with cloud applications	Innovation	FDP in I&E / IPR	NIT Jalandhar	01-07-2019	05-07-2019	5	Offline	55	30
15	ML using Python	Innovation	FDP in I&E / IPR	IUST Kashmir	01-07-2019	05-07-2019	5	Offline	66	30
16	VLSI Chip Design using EDA tools	Innovation	FDP in I&E / IPR	IITR	08-07-2019	12-07-2019	5	Offline	80	30
17	Machine Learning with special focus on Python	Innovation	FDP in I&E / IPR	IMSEC Ghaziabad	22-07-2019	26-07-2019	5	Offline	49	30
18	Deep Learning - applications	Innovation	FDP in I&E / IPR	IITR	20-08-2019	24-08-2019	5	Offline	124	30
19	Big Data with Hadoop Advance	Innovation	FDP in I&E / IPR	IITR	08-08-2019	22-09-2019	46	Offline	80	30
20	Artificial Intelligence -Devices to Systems	Innovation	FDP in I&E / IPR	IITR	28-08-2019	01-09-2019	5	Offline	65	30
21	Machine Learning and Data Analytics with Python	Innovation	FDP in I&E / IPR	IITR	09-09-2019	13-09-2019	5	Offline	67	30
22	Cloud computing	Innovation	FDP in I&E / IPR	IITR	16-09-2019	20-09-2019	5	Offline	70	30
23	Computational Biology and Translational Bioinformatics	Innovation	FDP in I&E / IPR	IITR	30-09-2019	04-10-2019	5	Offline	57	30
24	Embedded System - Wireless Sensor Network for IoT	Innovation	FDP in I&E / IPR	NIT Jalandhar	08-11-2019	12-11-2019	5	Offline	55	30
25	ICT Standards - IP Rights	Innovation	FDP in I&E / IPR	IPEC GHAZIABAD	18-11-2019	22-11-2019	5	Offline	34	30
26	IoT and its Applications	Innovation	FDP in I&E / IPR	KIET Ghaziabad	19-11-2019	23-11-2019	5	Offline	35	30
27	Blockchain Technology	Innovation	FDP in I&E / IPR	IPEC Ghaziabad	03-12-2019	09-12-2019	7	Offline	52	30
28	IoT and its Applications	Innovation	FDP in I&E / IPR	IPEC Ghaziabad	10-12-2019	14-12-2019	5	Offline	44	30
29	IoT and Machine Learning	Innovation	FDP in I&E / IPR	Chitkara University Himachal Pradesh	16-12-2019	20-12-2019	5	Offline	33	30
30	AI and Machine Learning(NKN)	Innovation	FDP in I&E / IPR	IIT Roorkee	23-12-2019	27-12-2019	5	Offline	266	30
31	Simulation - Modeling Techniques and their Applications in Science and Engineering	Innovation	FDP in I&E / IPR	RJIT Gwalior	06-01-2020	10-01-2020	5	Offline	68	30
32	Deep Learning and Machine Learning Applications using Python	Innovation	FDP in I&E / IPR	SMVDU	06-01-2020	10-01-2020	5	Offline	64	30
33	Artificial Intelligence- Devices to Circuits	Innovation	FDP in I&E / IPR	IITR	09-01-2020	13-01-2020	5	Offline	63	30
34	Machine Learning - Data Analytics using Python	Innovation	FDP in I&E / IPR	ABES GZB	13-01-2020	17-01-2020	5	Offline	38	30



35	ICT Applications in Project Management	Innovation	FDP in I&E / IPR	IPEC GZB	13-01-2020	17-01-2020	5	Offline	34	30
36	Internet of Things (IoT)	Innovation	FDP in I&E / IPR	KEC GZB	13-01-2020	17-01-2020	5	Offline	60	30
37	Network Security and AI	Innovation	FDP in I&E / IPR	IITR	14-01-2020	18-01-2020	5	Offline	32	30
38	Blockchain Technology	Innovation	FDP in I&E / IPR	PML SD Chandigarh	20-01-2020	25-01-2020	6	Offline	43	30
39	Embedded System - Wireless Sensor Network for IoT	Innovation	FDP in I&E / IPR	NMAM Karnataka	20-01-2020	24-01-2020	5	Offline	40	30
40	Machine Learning and Data Analytics using Python	Innovation	FDP in I&E / IPR	BBD Lucknow	27-01-2020	31-01-2020	5	Offline	54	30
41	IoT with Cloud Applications	Innovation	FDP in I&E / IPR	Sri Shakthi Institute of Engineering and Technology Coimbatore	10-02-2020	14-02-2020	5	Offline	57	30
42	Embedded System - Wireless Sensor Network for IoT	Innovation	FDP in I&E / IPR	PSG College of Technology Coimbatore Tamil Nadu	17-02-2020	21-02-2020	5	Offline	32	30
43	Embedded System - Wireless Sensor Network for IoT	Innovation	FDP in I&E / IPR	REVA University Bangaluru	24-02-2020	28-02-2020	5	Offline	43	30
44	Machine Learning using Python	Innovation	FDP in I&E / IPR	Panjab University Chandigarh	02-03-2020	06-03-2020	5	Offline	49	30
45	Deep Learning and its Applications	Innovation	FDP in I&E / IPR	Amar Singh College Cluster Univesity Srinagar Gogji Bagh Srinagar	02-03-2020	06-03-2020	5	Offline	42	30
46	Entrepreneurship Innovation - Incubation	Entrepreneurship/Startup, Innovation	FDP in I&E / IPR	Inderprastha Engineering College Ghaziabad UP	03-03-2020	07-03-2020	5	Offline	37	30
47	Block-chain Technologies	Innovation	FDP in I&E / IPR	Chitkara University	09-04-2020	17-04-2020	9	Offline	55	30
48	Machine Learning and Its Applications	Innovation	FDP in I&E / IPR	Graphic Era University	10-04-2020	17-04-2020	8	Offline	45	30
49	Machine Learning and Its Applications	Innovation	FDP in I&E / IPR	KEC Ghaziabad	13-04-2020	20-04-2020	8	Offline	85	30
50	Machine Learning and Data Analytics using Python	Innovation	FDP in I&E / IPR	IIMT Meerut	15-04-2020	22-04-2020	8	Offline	68	30
51	Machine Learning using Python	Innovation	FDP in I&E / IPR	Chitkara University	20-04-2020	29-04-2020	10	Offline	71	30
52	Block-chain Technologies	Innovation	FDP in I&E / IPR	KEC Ghaziabad	21-04-2020	28-04-2020	8	Offline	72	30
53	Machine Learning using Python	Innovation	EDP in I&E / IPR	Chitkara University	21-04-2020	29-04-2020	9	Offline	71	30
54	Block-chain Technologies	Innovation	FDP in I&E / IPR	KEC Ghaziabad	21-04-2020	28-04-2020	8	Offline	74	30
55	Machine Learning and Data Analytics using Python	Innovation	FDP in I&E / IPR	NVPEM Kanpur	23-04-2020	01-05-2020	9	Offline	73	30
56	Machine Learning and Data Analytics using Python	Innovation	FDP in I&E / IPR	Graphic Era Hill University	27-04-2020	04-05-2020	8	Offline	95	30
57	Machine Learning and AI using Python	Innovation	FDP in I&E / IPR	Graphic Era Hill University	27-04-2020	04-05-2020	8	Offline	97	30

58	Machine Learning and AI using Python	Innovation	FDP in I&E / IPR	Amity University	27-04-2020	06-05-2020	10	Offline	89	30
59	Machine Learning and AI using Python	Innovation	FDP in I&E / IPR	Amity University	27-04-2020	06-05-2020	10	Offline	85	30
60	Block-chain Technologies	Innovation	FDP in I&E / IPR	NVPEM Kanpur	01-05-2020	08-05-2020	8	Offline	85	30
61	Machine Learning and Its Applications	Innovation	FDP in I&E / IPR	JSS Academy	04-05-2020	12-05-2020	9	Offline	82	30
62	Machine Learning and AI using Python	Innovation	FDP in I&E / IPR	KIET Group of Institutions Ghaziabad	05-05-2020	13-05-2020	9	Offline	74	30
63	Machine Learning and Its Applications	Innovation	FDP in I&E / IPR	JSS Academy	05-05-2020	14-05-2020	10	Offline	78	30
64	Machine Learning and Data Analytics using Python	Innovation	FDP in I&E / IPR	TMU Moradabad	22-04-2020	29-04-2020	8	Offline	80	30
65	Deep Learning and Its Applications	Innovation	FDP in I&E / IPR	BVP New Delhi	04-04-2020	13-04-2020	10	Offline	90	30
66	Deep Learning and Its Applications	Innovation	FDP in I&E / IPR	BVP New Delhi	04-05-2020	13-05-2020	10	Offline	91	30
67	Machine Learning and Data Analytics using Python	Innovation	FDP in I&E / IPR	KIET Group of Institutions Ghaziabad	06-05-2020	14-05-2020	9	Offline	64	30
68	Deep Learning and Its Applications	Innovation	FDP in I&E / IPR	BVP New Delhi	11-05-2020	20-05-2020	10	Offline	93	30
69	Deep Learning and Its Applications	Innovation	FDP in I&E / IPR	BVP New Delhi	11-05-2020	20-05-2020	10	Offline	84	30
70	Blockchain Technology	Innovation	FDP in I&E / IPR	Online Live Classroom Hub	08-06-2020	17-06-2020	10	Online	47	30
71	Deep Learning and Its Applications	Innovation	FDP in I&E / IPR	Online Live Classroom Hub	22-06-2020	30-06-2020	9	Online	59	30
72	Machine Learning and IoT with AWS	Innovation	FDP in I&E / IPR	Online Live Classroom Hub	23-06-2020	02-07-2020	10	Online	52	30
73	ICT Tools for Teaching Learning Process and Institutes	Innovation	FDP in I&E / IPR	NKN Live Course	10-08-2020	21-08-2020	12	Online	235	30
74	Practical Quantum Computing using Qiskit and IBMQ	Innovation	FDP in I&E / IPR	Online Live Classroom Hub	12-09-2020	04-10-2020	23	Online	502	30
75	Cyber Security and Cryptography	Innovation	FDP in I&E / IPR	Online Live Classroom Hub	07-10-2020	11-10-2020	5	Online	70	30
76	Cognition and Computation	Innovation	FDP in I&E / IPR	Online Live Classroom Hub	06-11-2020	10-11-2020	5	Online	42	30
77	Nature Inspired Optimization Techniques and their Applications using MATLAB	Innovation	FDP in I&E / IPR	Online Live Classroom Hub	01-12-2020	10-12-2020	10	Online	49	30
78	Computer Vision and Image Processing	Innovation	FDP in I&E / IPR	Online Live Classroom Hub	14-12-2020	24-12-2020	11	Online	54	30
79	Functional Materials- Recent Trends and Future Prospects	Innovation	FDP in I&E / IPR	IITR	20-05-2019	24-05-2019	5	Offline	45	30

80	Recent Advancement in Biomaterials and Nanotechnology for Biomedical Applications	Innovation	FDP in I&E / IPR	National Institute of Technology Jalandhar	24-05-2019	28-05-2019	5	Offline	45	30
81	Green Chemistry Conference	Innovation	FDP in I&E / IPR	Mahatma Jyotiba Phule Rohilkhand University Bareilly	25-02-2020	29-02-2020	5	Offline	1	30
82	Management Development Programme on Rural Development Leadership	Innovation	MDP in I&E / IPR	Department of Management studies	03-02-2020	06-02-2020	4	Online	70	30
83	TRAINING AND PILOT PROJECT FOR GIS BASE MAP PREPARATION	Innovation	EDP in I&E / IPR	Civil Engineering	10-06-2019	16-06-2019	7	Offline	20	30
84	MACHINE LEARNING WITH PYTHON FOR PRACTICAL EXAMPLES	Innovation	EDP in I&E / IPR	Mathematics	24-06-2019	28-06-2019	5	Offline	25	30
85	CONTROL THEORY AND ITS APPLICATIONS	Innovation	EDP in I&E / IPR	Electrical Engineering	09-07-2019	12-07-2019	4	Offline	25	30
86	STRUCTURAL EQUATION MODELLING - ITS APPLICATION IN ARCHITECTURE AND PLANNING	Innovation	EDP in I&E / IPR	Architecture and Planning	17-06-2019	21-06-2019	5	Offline	25	30
87	DESIGN OPERATION AND INTEGRATION RENEWABLE ENERGY	Innovation	EDP in I&E / IPR	Hydro and Renewable Energy	19-08-2019	23-08-2019	5	Offline	25	30
88	WIND POWER EMERGING TECHNOLOGY	Innovation	EDP in I&E / IPR	Hydro and Renewable Energy	26-08-2019	30-08-2019	5	Offline	25	30
89	DESIGN OPERATION AND INTEGRATION RENEWABLE ENERGY	Innovation	EDP in I&E / IPR	Hydro and Renewable Energy	02-09-2019	06-09-2019	5	Offline	25	30
90	HYDRAULIC TURBINE TESTING	Innovation	EDP in I&E / IPR	Hydro and Renewable Energy	09-09-2019	13-09-2019	5	Offline	25	30
91	SMALL HYDROPOWER DEVELOPMENT	Innovation	EDP in I&E / IPR	Hydro and Renewable energy	16-09-2019	28-09-2019	13	Offline	20	30
92	SEDIMENT MONITORING AND ABRASION TESTING	Innovation	EDP in I&E / IPR	Hydro and Renewable Energy	04-11-2019	08-11-2019	5	Offline	25	30
93	PUMP STORAGE DESIGN OPERATION - INTEGRATION WITH RENEWABLE ENERGY	Innovation	EDP in I&E / IPR	Hydro and Renewable Energy	20-01-2020	24-01-2020	5	Offline	25	30
94	SOLAR POWER-EMERGING TECHNOLOGY AND OMISSIES OF SOLAR POWER PLANTS	Innovation	EDP in I&E / IPR	Hydro and Renewable Energy	27-01-2020	31-01-2020	5	Offline	25	30
95	ENVIRONMENTAL MANAGEMENT IN TANNERIES	Innovation	EDP in I&E / IPR	Chemical	13-01-2020	17-01-2020	5	Offline	20	30
96	RISK TARGETED SEISMIC DESIGN	Innovation	EDP in I&E / IPR	Earthquake	18-02-2020	22-02-2020	5	Offline	20	30

**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	Rajat Agrawal	Department of Management Studies	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)
2	Appurba Kumar Sharma	Department of Mechanical and Industrial Engineering	Professor	No	No			
3	Akshay Dvivedi	Department of Mechanical and Industrial Engineering	Professor	No	No			
4	Manish Shrikhande	Department of Earthquake Engineering	Professor	No	No			
5	Manoranjan Parida	Civil Engineering	Professor	No	No			
6	P. Jeevanandam	Department of Chemistry	Professor	No	No			
7	Pravindra Kumar	Department of Biotechnology	Professor	No	No			
8	Kamal Jain	Civil Engineering	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)
9	Yogesh Sharma	Physics Department	Associate Professor	No	No			
10	Soumitra Satapathi	Physics	Associate professor	No	No			
11	Debrupa Lahiri	Metallurgical and Materials Engineering	Associate professor	No	No			
12	Indranil Lahiri	Metallurgical and Materials Engineering	Associate Professor	No	No			
13	Karun Rawat	Electronics and Communication Engineering	Associate professor	No	No			
14	Mukesh Pathak	Electrical Engineering	Professor	No	No			
15	N Siva Mohan Reddy	Chemical Engineering	Assistant professor	No	No			
16	Dharmendra Singh	Electronics and Communication Engineering	Professor	No	No			
17	Meenakshi Rawat	Electronics and Communication Engineering	Associate Professor	No	No			
18	Pramod Agrawal	Electrical Engineering	Professor	No	No			
19	Naveen K Navani	Biotechnology	Professor	No	No			
20	Sanjeev Manhas	Electronics and Communication Engineering	Professor	No	No			
21	Ranjana Pathania	Biotechnology	Professor	No	No			
22	Sudipta Sarkar	Civil Engineering	Professor	No	No			
23	B.K. Kaushik	Electronics and Communication Engineering	Professor	No	No			
24	V.C. Srivastava	Chemical Engineering	Professor	No	No			
25	Prabhat Mandal	Biotechnology	Professor	No	No			
26	Paritosh Mohanty	Chemistry	Professor	No	No			
27	Shailly Tomar	Biotechnology	Professor	No	No			

28	N. C. Misra	Polymer and Plastic Engineering	Professor	No	No
29	Anjan Sil	Metallurgy and Material Engineering	Professor	No	No
30	Ranjana Pathania	Biotechnology	Professor	No	No
31	Pyari Mohan Pradhan	Electronics and Communication Engineering	Professor	No	No
32	Sumana Ghosh	Chemical Engineering	Professor	No	No
33	Prasenjit Mondal	Chemical Engineering	Professor	No	No
34	D. K. Dwivedi	Mechanical and Industrial Engineering	Professor	No	No
35	Arup Kumar Das	Mechanical and Industrial Engineering	Associate Professor	No	No
36	Bhaves R. Bhalja	Electrical Engineering	Associate Professor	No	No
37	Varun Sharma	Mechanical and Industrial Engineering	Assistant Professor	No	No
38	P. Gopinath	Biotechnology	Associate Professor	No	No
39	Pradeep Kumar	Mechanical and Industrial Engineering	Professor	No	No
40	Anil Kumar	Chemistry	Professor	No	No
41	G D Verma	Physics	Professor	No	No
42	M.M. Joglekar	Mechanical and Industrial Engineering	Associate Professor	No	No
43	Sanjoy Ghosh	Biotechnology	Professor	No	No
44	Pankaj Agrawal	Earthquake Engineering	Professor	No	No
45	K. B. Mishra	Mechanical and Industrial Engineering	Assistant Professor	No	No
46	Amit Agarwal	Civil Engineering	Assistant Professor	No	No
47	Ravi Sharma	Earth Science	Assistant Professor	No	No
48	Ram P Bharti	Chemical Engineering	Associate Professor	No	No
49	Pushpa Choudhary	Civil Engineering	Assistant Professor	No	No
50	Hari Prakash Veluswamy	Chemical Engineering	Assistant Professor	No	No
51	Prateek Jha	Chemical Engineering	Associate Professor	No	No
52	Anshu Anand	Chemical Engineering	Assistant Professor	No	No
53	ASHUTOSH CHAMOLI	Earth Sciences	Assistant Professor	No	No
54	Vipul Silwal	Earth Science	Assistant Professor	No	No
55	Pratham Arora	Hydro and Renewable Energy	Assistant Professor	No	No
56	Rhythm Singh	Hydro and Renewable Energy	Assistant Professor	No	No
57	Kasiviswanathan K S	Water Resources Development and Management	Assistant Professor	No	No
58	Thanga Raj Chelliah	Water Resources Development and Management	Associate Professor	No	No
59	M L Kansal	Water Resource Development and Management	Professor	No	No
60	Sumit Sen	Hydrology	Associate Professor	No	No

61	Narendra Goel	Hydrology	Professor	No	No
62	Anil Kumar Gourishetty	Physics	Associate Professor	No	No
63	Ankit Agarwal	Hydrology	Assistant Professor	No	No
64	Brijesh Kumar Yadav	Electronics and Communication Engineering	Associate Professor	No	No
65	Sachin Kumar Srivastava	Physics	Assistant Professor	No	No
66	Idhaya Chandhiran Ilampooranan	Water Resources Development and Management	Assistant Professor	No	No
67	Abhishek Tewari	Metallurgy and Material Engineering	Assistant Professor	No	No
68	Sohom Chakrabarty	Electrical Engineering	Assistant Professor	No	No
69	G. N. Pillai	Electrical Engineering	Professor	No	No
70	Dheeraj Kumar	Chemistry	Assistant Professor	No	No
71	Sudeb Dasgupta	Electronics and Communication Engineering	Professor	No	No
72	Anand Bulusu	Electronics and Communication Engineering	Professor	No	No
73	Darshak Bhatt	Electronic and Communication Engineering	Assistant Professor	No	No
74	Balasubramanian Raman	Computer Science and Engineering	Professor	No	No
75	Sudip Roy	Computer Science and Engineering	Assistant Professor	No	No
76	Sateesh K. Peddoju	Computer Science and Engineering	Professor	No	No
77	Uttam Kumar Roy	Architecture and Planning	Associate Professor	No	No
78	Smriti Saraswat	Architecture and Planning	Assistant Professor	No	No
79	Ram Sateesh Pasupuleti	Architecture and Planning	Assistant Professor	No	No
80	Harshit Sosan Lakra	Architecture and Planning	Assistant Professor	No	No
81	Arindam Biswas	Architecture and Planning	Associate Professor	No	No
82	Sonal Atreya	Architecture and Planning	Assistant Professor	No	No
83	Saptarshi Koley	Architecture and Planning	Assistant Professor	No	No
84	GAURAV RAHEJA	Architecture and Planning	Professor	No	No
85	Shubhajit Sadhukhan	Architecture and Planning	Assistant Professor	No	No

**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	Tinkering Lab Students Body	Innovation Club	2017	Co-working Space	Incubation Unit, Centre of Excellence with Advance Tools	12	Ritik Gupta	rgupta1@ch.iitr.ac.in	6387707800

2	Team Robocon IITR	Innovation Club	2010	Co-working Space,Work Stations	Pre-Incubation Unit,Centre of Excellence with Advance Tools	4	Sridhar Bagal	teamroboconiitr@iitr.ac.in	7738119204
3	IITR Motorsports	Innovation Club	2010	Co-working Space	No Such Facilities Exist in the Campus	3	Rahesh Hudiya	rhudiya@me.iitr.ac.in	7302202065
4	E-cell	Innovation Club	2005	Co-working Space,Work Stations	Innovation Labs,Centre of Excellence with Advance Tools	5	Ritik Singh	ecell@iitr.ac.in	8107600630
5	ASME IIT Roorkee Chapter	Innovation Club	2007	Co-working Space	No Such Facilities Exist in the Campus	7	Bharat Singh rajpurohit	brajurohit@me.iitr.ac.in	8769055449
6	Physics and Astronomy Club	Innovation Club	1980	Co-working Space	No Such Facilities Exist in the Campus	5	Piyush Marmat	pmarmat@ph.iitr.ac.in	7017384845
7	SAE IIT Roorkee	Innovation Club	2001	Co-working Space	No Such Facilities Exist in the Campus	5	Saurabh Thokade	tpradeep@ph.iitr.ac.in	9561287349
8	SDSLabs	Innovation Club	2013	Co-working Space,Work Stations	No Such Facilities Exist in the Campus	5	Vaibhav	vaibhav@ce.iitr.ac.in	9988500414
9	Enactus	Innovation Club	2018	Co-working Space	No Such Facilities Exist in the Campus	5	Alankrit Mahajan	amahajan@ee.iitr.ac.in	9469001269
10	MDG	Innovation Club	2011	Co-working Space,Work Stations	No Such Facilities Exist in the Campus	3	Kaustubh Trivedi	ktrivedi@cs.iitr.ac.in	9462103409
11	Finance Club	Innovation Club	2018	Co-working Space	No Such Facilities Exist in the Campus	3	Soham Chakraborty	schakraborty@mt.iitr.ac.in	7302201783
12	ArIES	Innovation Club	1980	Co-working Space,Work Stations	No Such Facilities Exist in the Campus	5	Rahul Badwaik	rbadwaik@ee.iitr.ac.in	7083060778
13	ACM Student Chapter	Innovation Club	2018	Co-working Space	No Such Facilities Exist in the Campus	3	Ashutosh Chaubey	achaubey@cs.iitr.ac.in	7224867609
14	Team KNOx	Innovation Club	2009	Co-working Space	No Such Facilities Exist in the Campus	3	Piyush Jadiya	pjadiya@me.iitr.ac.in	6387597776
15	Models and Robotics Section	Innovation Club	1980	Co-working Space	No Such Facilities Exist in the Campus	2	Avdesh Kumar Ranwa	aranwa@me.iitr.ac.in	7976385183
16	iGem	Innovation Club	2020	None	No Such Facilities Exist in the Campus	2	Sanjeevani Marcha	smarcha@bt.iitr.ac.in	8875372143
17	AERO IIT Roorkee	Innovation Club	2000	Co-working Space	No Such Facilities Exist in the Campus	5	Saurabh Thokade	tpradeep@ph.iitr.ac.in	9561287349
18	MIESS	Innovation Club	2012	Co-working Space,Work Stations	No Such Facilities Exist in the Campus	10	Yagya Sharma	ynarayan@me.iitr.ac.in	0133228524
19	AIChE	Innovation Club	2017	Co-working Space	No Such Facilities Exist in the Campus	5	Vardan Bapna	vbapna@ch.iitr.ac.in	9760835380

20	ShARE	Innovation Club	2007	Co-working Space	No Such Facilities Exist in the Campus	5	Deep Behal	share@iitr.ac.in	964658339
21	EESS	Innovation Club	2012	Co-working Space	No Such Facilities Exist in the Campus	2	Vaibhav	eess@iitr.ac.in	9811196405
22	Student Technical Council	Innovation Club	2013	Co-working Space	No Such Facilities Exist in the Campus	40	Gaurav Dewant	gensec.technical@iitr.ac.in	9079876270
23	MARS	Innovation Club	2018	Co-working Space	No Such Facilities Exist in the Campus	5	Anirudh Jakhar	ajakhar@ce.iitr.ac.in	9306505509
24	Geek Gadget	Innovation Club	2009	Co-working Space	No Such Facilities Exist in the Campus	15	Vikram Rathore	geekgazette@iitr.ac.in	9764089637

**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	TIDES Business Incubator	Innovation Centre	2015	Co-working Space	Incubation Unit	Incubation Unit	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof Sanjeev Manhas</td> </tr> <tr> <td>Facility Incharge Email</td> <td>tides@iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>01332285736</td> </tr> </table>	Facility Incharge Name	Prof Sanjeev Manhas	Facility Incharge Email	tides@iitr.ac.in	Facility Incharge Phone	01332285736	8	Yes	No	Yes
Facility Incharge Name	Prof Sanjeev Manhas																
Facility Incharge Email	tides@iitr.ac.in																
Facility Incharge Phone	01332285736																
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 Roorkee				Educational Institute		10000000							
Funding Agency				DST				Govt. Agency (Central)		13300000							
Funding Agency				MeitY				Govt. Agency (Central)		5000000							
Funding Agency				BIRAC				Govt. Agency (Central)		22300000							



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)

2	TIDES BioNEST BioIncubator	Innovation Centre	2019	Co-working Space	Incubation Unit	Incubation Unit	Facility Incharge Name	Prof Sanjeev Manhas	2	Yes	No	Yes	
							Facility Incharge Email	tides@iitr.ac.in					
							Facility Incharge Phone	013322 85736					
	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			BIRAC				Govt. Agency (Central)		22300000				
Institute's Own Fund / Resource			IIT Roorkee				Educational Institute		1565000				
3	Tinkering Lab	Tinkering Lab	2017	3D Printing & Prototype Equipment, Work Stations	Incubation Unit, Centre of Excellence with Advance Tools	Incubation Unit, Centre of Excellence with Advance Tools	Facility Incharge Name	Prof. Akshay Dvivedi	2	Yes	Yes		Yes
							Facility Incharge Email	dvaksfme@iitr.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	8880	
							Facility Incharge Phone	013322 85428			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	
	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			BIRAC				Govt. Agency (Central)		22300000				
Institute's Own Fund / Resource			IIT Roorkee				Educational Institute		1565000				

**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				IIT Roorkee			Educational Institute		7880000																
Institute's Own Fund / Resource				IIT Roorkee			Educational Institute		1565000																
4	Design Innovation Centre (DIC)	Design Centre	2018	Co-working Space,3D Printing & Prototype Equipment, Work Stations	Incubation Unit,Centre of Excellence with Advance Tools	Incubation Unit,Centre of Excellence with Advance Tools	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Apurbba Kumar Sharma</td> </tr> <tr> <td>Facility Incharge Email</td> <td>aks@me.iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9411100286</td> </tr> </table>	Facility Incharge Name	Prof. Apurbba Kumar Sharma	Facility Incharge Email	aks@me.iitr.ac.in	Facility Incharge Phone	9411100286	3	Yes	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>287000</td> </tr> <tr> <td>Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	287000	Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)	0	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	Yes
Facility Incharge Name	Prof. Apurbba Kumar Sharma																								
Facility Incharge Email	aks@me.iitr.ac.in																								
Facility Incharge Phone	9411100286																								
Yes																									
Total Annual Income from Training and Skill Development Services (In Rupees)	287000																								
Total Annual Income from (Technical and Business ) Mentoring Services (In Rupees)	0																								
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 Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)																
Funding Agency				Ministry of Human Resource and Development (MHRD)			Govt. Agency (Central)		40538000																
Funding Agency				Ministry of Human Resource and Development (MHRD)			Govt. Agency (Central)		19938000																

**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)**

5	Samsung Lab	Maker's Space	2019	None	No Such Facilities Exist in the Campus	No Such Facilities Exist in the Campus	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof Sudeb Dasgupta</td> </tr> <tr> <td>Facility Incharge Email</td> <td>debashis.ghosh@ece.iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>013322 85634</td> </tr> </table>	Facility Incharge Name	Prof Sudeb Dasgupta	Facility Incharge Email	debashis.ghosh@ece.iitr.ac.in	Facility Incharge Phone	013322 85634	0	No	No	No
Facility Incharge Name	Prof Sudeb Dasgupta																
Facility Incharge Email	debashis.ghosh@ece.iitr.ac.in																
Facility Incharge Phone	013322 85634																
6	Technology Innovation Hub	Innovation Centre	2020	Co-working Space,3D Printing & Prototype Equipment	Innovation Park/Research Park	Innovation Park/Research Park	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Sudeb Dasgupta</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sudeb.dasgupta@ece.iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>013322 85666</td> </tr> </table>	Facility Incharge Name	Prof. Sudeb Dasgupta	Facility Incharge Email	sudeb.dasgupta@ece.iitr.ac.in	Facility Incharge Phone	013322 85666	3	No	No	No
Facility Incharge Name	Prof. Sudeb Dasgupta																
Facility Incharge Email	sudeb.dasgupta@ece.iitr.ac.in																
Facility Incharge Phone	013322 85666																

**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?														
1	Tinkering Lab	2017	Pre-Incubation		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Akshay Divedi</td> </tr> <tr> <td>Facility Incharge Email</td> <td>dvaksfme@iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>01330 13322 85428</td> </tr> </table>	Facility Incharge Name	Prof. Akshay Divedi	Facility Incharge Email	dvaksfme@iitr.ac.in	Facility Incharge Phone	01330 13322 85428	2	Yes	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td>8880</td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td>0</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)	8880	Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0	Yes
Facility Incharge Name	Prof. Akshay Divedi																						
Facility Incharge Email	dvaksfme@iitr.ac.in																						
Facility Incharge Phone	01330 13322 85428																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)	8880																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0																						
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	0																						

**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)					
Institute's Own Fund / Resource		IIT Roorkee		Educational Institute		7880000					
Institute's Own Fund / Resource		IIT Roorkee		Educational Institute		1565000					
2	Design Innovation Centre (DIC)	2018	Pre-Incubation, Incubation Unit	National Initiative for Design Innovation (NIDI)	Facility Incharge Name	Prof. Apurbba Kumar Sharma	3	Yes	Yes		Yes
					Facility Incharge Email	aks@me.iitr.ac.in			Total Annual Income from Training and Skill Development Services (In Rupees)	287000	
					Facility Incharge Phone	9411100286			Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0	
									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 Human Resource and Development (MHRD)		Govt. Agency (Central)		40538000					
Institute's Own Fund / Resource		IIT Roorkee		Educational Institute		19938000					
3	Institute Computer Centre	1978	Innovation Labs		Facility Incharge Name	Sanjeev Kumar	12	No	No	Yes	
					Facility Incharge Email	head.icc@iitr.ac.in					
					Facility Incharge Phone	911332285701					
Source of Grant / Fund		Agency Name		Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)					
Funding Agency		IIT Roorkee		Educational Institute		402500000					

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

4	Institute Instrumentation Centre	2001	Innovation Labs		Facility Incharge Name	Ramesh Chandra	10	No	No	Yes
					Facility Incharge Email	ramesh.chandra@ic.iitr.ac.in				
					Facility Incharge Phone	91133 22857 43				
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 Roorkee			Educational Institute		88500000			
5	Centre of Nanotechnology	2005	Innovation Labs		Facility Incharge Name	R.K. Dutta	5	No	No	Yes
					Facility Incharge Email	head@nt.iitr.ac.in				
					Facility Incharge Phone	01332 28549 0				
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 Roorkee			Educational Institute		1000000			
6	Centre of Excellence in Disaster Mitigation and Management	2006	Innovation Labs		Facility Incharge Name	Mahua Mukherjee	5	No	No	Yes
					Facility Incharge Email	head@dm.iitr.ac.in				
					Facility Incharge Phone	91133 22866 16				
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 Roorkee			Educational Institute		310000			

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

7	Centre for Transportation Systems (CTRANS)	2010	Innovation Labs		Facility Incharge Name	Durga Toshniwal	3	No	No	Yes
					Facility Incharge Email	head.ctrans@iitr.ac.in				
					Facility Incharge Phone	01332284230				
Source of Grant / Fund		Agency Name			Agency Type		Total Grants / Funds Received by CoE Facility exists in Campus (In Rupees)			
Funding Agency		IIT Roorkee			Educational Institute		700000			
8	Centre of Excellence in Petrochemical Industries	2019	Innovation Labs		Facility Incharge Name	Shishir Sinha	5	No	No	Yes
					Facility Incharge Email	shishir@ch.iitr.ac.in				
					Facility Incharge Phone	911332285648				
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 Roorkee			Educational Institute		30000000			
Funding Agency		Ministry of Petrochemicals			Govt. Agency (Central)		40400000			
9	Motorsports	2010	Innovation Labs		Facility Incharge Name	Manish Shrikhande	10	No	No	No
					Facility Incharge Email	dsric@iitr.ac.in				
					Facility Incharge Phone	911332285245				
10	Students Technical Council	2017	Innovation Labs		Facility Incharge Name	Manish Shrikhande	2	No	No	No
					Facility Incharge Email	dsric@iitr.ac.in				
					Facility Incharge Phone	911332285245				

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

Srno	Name of Incubation Facility	Year of Establishment	Incubation with Access to Other I&E Facilities at the HEI	Name of the Funding Schemes Available with Incubation Unit, if any (Optional)	Facility Details	Total Nos of Dedicated Executive/Management team Strength Engaged at the Facility	Had the Incubation Facility Provided any Funding Support for Idea/Prototype/Innovation Development and implementation during the Financial Year 2019-20?	Had institute Generated Income either from Services Offered by Incubation Centre/Facilities?	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Incubation Centre/Facilities?														
1	TIDES Business Incubator	2015	Pre-Incubation, Innovation Labs, Centre of Excellence with Advance Tools, IPR Cell/Technology Transfer Centre	DST TBI, DST NIDHI SSS, NIDHI Accelerator, MeitY TIDE, MeitY TIDE 2.0, BIRAC BioNEST	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof Sanjeev Manhas</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sanjeev.manhas@ece.iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>01332 285736</td> </tr> </table>	Facility Incharge Name	Prof Sanjeev Manhas	Facility Incharge Email	sanjeev.manhas@ece.iitr.ac.in	Facility Incharge Phone	01332 285736	8	Yes	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <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>0</td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td>200000</td> </tr> </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)	0	Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	200000	Yes
Facility Incharge Name	Prof Sanjeev Manhas																						
Facility Incharge Email	sanjeev.manhas@ece.iitr.ac.in																						
Facility Incharge Phone	01332 285736																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)	0																						
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)	0																						
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)	200000																						
Source of Grant / Fund			Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)															
-			-			-		28300000															
2	Tinkering Lab	2017	Pre-Incubation, Centre of Excellence with Advance Tools	No	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Akshay Dvivedi</td> </tr> <tr> <td>Facility Incharge Email</td> <td>dvaksfme@iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>01332 285428</td> </tr> </table>	Facility Incharge Name	Prof. Akshay Dvivedi	Facility Incharge Email	dvaksfme@iitr.ac.in	Facility Incharge Phone	01332 285428	2	Yes	No	Yes								
Facility Incharge Name	Prof. Akshay Dvivedi																						
Facility Incharge Email	dvaksfme@iitr.ac.in																						
Facility Incharge Phone	01332 285428																						
Source of Grant / Fund			Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)															

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

3	Design Innovation Center (DIC)	2018	Pre-Incubation	National Initiative for Design Innovation (NIDI)	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Apurbba Kumar Sharma</td> </tr> <tr> <td>Facility Incharge Email</td> <td>aks@me.iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>9411100286</td> </tr> </table>	Facility Incharge Name	Prof. Apurbba Kumar Sharma	Facility Incharge Email	aks@me.iitr.ac.in	Facility Incharge Phone	9411100286	3	Yes	No	Yes				
Facility Incharge Name	Prof. Apurbba Kumar Sharma																		
Facility Incharge Email	aks@me.iitr.ac.in																		
Facility Incharge Phone	9411100286																		
<table border="1"> <thead> <tr> <th colspan="4">Source of Grant / Fund</th> <th colspan="3">Agency Name</th> <th colspan="2">Agency Type</th> <th>Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)</th> </tr> </thead> </table>										Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)
Source of Grant / Fund				Agency Name			Agency Type		Total Grants / Funds Received by Incubation Facility exists in Campus (In Rupees)										
4	Centre of Railway Research	2015	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Satish Sharma</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sshme@iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>911332285603</td> </tr> </table>	Facility Incharge Name	Satish Sharma	Facility Incharge Email	sshme@iitr.ac.in	Facility Incharge Phone	911332285603	10	No	No	No				
Facility Incharge Name	Satish Sharma																		
Facility Incharge Email	sshme@iitr.ac.in																		
Facility Incharge Phone	911332285603																		
5	Space Technology Cell	2019	Innovation Labs		<table border="1"> <tr> <td>Facility Incharge Name</td> <td>S. H. Upadhyay</td> </tr> <tr> <td>Facility Incharge Email</td> <td>sanjay.upadhyay@me.iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>01332285520</td> </tr> </table>	Facility Incharge Name	S. H. Upadhyay	Facility Incharge Email	sanjay.upadhyay@me.iitr.ac.in	Facility Incharge Phone	01332285520	1	No	No	No				
Facility Incharge Name	S. H. Upadhyay																		
Facility Incharge Email	sanjay.upadhyay@me.iitr.ac.in																		
Facility Incharge Phone	01332285520																		

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

<b>No Data Filled!</b>									
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**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?
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**List the IPR Cell/Technology Transfer Centre Facilities at the HEI**

1	Intellectual Property Rights Cell	2004	Centre of Excellence with Advance Tools	None	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. P. Jeevan andam</td> </tr> <tr> <td>Facility Incharge Email</td> <td>adii@iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>01332 285873</td> </tr> </table>	Facility Incharge Name	Prof. P. Jeevan andam	Facility Incharge Email	adii@iitr.ac.in	Facility Incharge Phone	01332 285873	2	No	No	No								
Facility Incharge Name	Prof. P. Jeevan andam																						
Facility Incharge Email	adii@iitr.ac.in																						
Facility Incharge Phone	01332 285873																						
2	IPR Chair	2011	Innovation Labs	SPRIHA	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Rajat Agarwal</td> </tr> <tr> <td>Facility Incharge Email</td> <td>rajat@ms.iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>01332 285737</td> </tr> </table>	Facility Incharge Name	Prof. Rajat Agarwal	Facility Incharge Email	rajat@ms.iitr.ac.in	Facility Incharge Phone	01332 285737	2	No	No	No								
Facility Incharge Name	Prof. Rajat Agarwal																						
Facility Incharge Email	rajat@ms.iitr.ac.in																						
Facility Incharge Phone	01332 285737																						
3	Office of SPONSORED RESEARCH & INDUSTRIAL CONSULTANCY	1978	Innovation Park/Research Park	SUPPORT FOR MAJOR INTERDISCIPLINARY LABORATORY EQUIPMENT (SMILE)	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Manish Shrikhande</td> </tr> <tr> <td>Facility Incharge Email</td> <td>dsric@iitr.ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>01332 285245</td> </tr> </table>	Facility Incharge Name	Prof. Manish Shrikhande	Facility Incharge Email	dsric@iitr.ac.in	Facility Incharge Phone	01332 285245	4	No	<table border="1"> <tr> <th colspan="2">Yes</th> </tr> <tr> <td>Total Annual Income from Training and Skill Development Services (In Rupees)</td> <td></td> </tr> <tr> <td>Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)</td> <td></td> </tr> <tr> <td>Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)</td> <td></td> </tr> </table>	Yes		Total Annual Income from Training and Skill Development Services (In Rupees)		Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)		Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)		No
Facility Incharge Name	Prof. Manish Shrikhande																						
Facility Incharge Email	dsric@iitr.ac.in																						
Facility Incharge Phone	01332 285245																						
Yes																							
Total Annual Income from Training and Skill Development Services (In Rupees)																							
Total Annual Income from (Technical and Business) Mentoring Services (In Rupees)																							
Total Annual Income from Office Space and Rental Services to Start-ups/Innovators (In Rupees)																							

**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	Prof Kamal Jain	Professor	Entrepreneurship/Startup Development	3
Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI		CIN (in case it is Startup)
RavenEye Geospatial		Within		

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

2	Prof Yogesh Sharma	Associate Prof	Entrepreneurship/Startup Development	3
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Indigenous Energy Storage	Within	-	
3	Prof Saumitra Satapathi	Associate professor	Idea/Innovation Development,Entrepreneurship/Startup Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Biofluidics Innovation	Within	-	
4	Prof Indranil Lahiri	Associate Professor	Entrepreneurship/Startup Development	6
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Heal-Agnostic Innovation	Within	-	
5	Prof Debrupa Lahiri	Associate professor	Idea/Innovation Development,Entrepreneurship/Startup Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Heal-Agnostic Innovations	Within	-	
6	Prof Karun Rawat	Associate professor	Idea/Innovation Development,Entrepreneurship/Startup Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	LINEARIZED AMPLIFIER TECHNOLOGIES AND SERVICES	Within	-	
7	Prof Mukesh Pathak	Professor	Idea/Innovation Development,Entrepreneurship/Startup Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Zunik Energies	Within	-	
8	Prof N Siva Mohan Reddy	Assistant professor	Idea/Innovation Development,Entrepreneurship/Startup Development	3
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	NSMR	Within	-	
9	Prof Dharmendra Singh	Professor	Idea/Innovation Development,Entrepreneurship/Startup Development	4
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Dirghadhi Technology	Within	-	
10	Appurba Kumar Sharma	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15

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

	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A four valve for directional control and mixing of fluids		Within	
11	Meenakshi Rawat	Associate Professor	Idea/Innovation Development,IPR Protection & Commercialization	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Baseband controlled linearization of High Power Amplifiers		Within	
Self interference cancellation in a software defined radio		Within		
12	Pramod Agrawal	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
NPA: A multilevel high power factor AC-DC converter		Within		
13	Naveen K Navani	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Single stranded nucleotides sequences specific for binding to Acinetobacterbaumannii and uses thereof		Within	
Probiotic edible film and method of its preparation		Within		
14	Naveen K Navani	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
Probiotic edible film and method of its preparation		Within		
15	Akshay Dvivedi	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A device for pressurized multiphase flow during electrochemical discharge machining process		Within	
	An adaptive feedback controlled electric hydro dissection device		Within	
A device for rotary disc grinding with adaptive feeding for electrochemical discharge machining process and a method thereof		Within		
16	Akshay Dvivedi	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
An adaptive feedback controlled electric hydro dissection device		Within		
17	Thanga Raj Chelliah	Professor	Idea/Innovation Development,IPR Protection & Commercialization	10

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

	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A System and Method for Energy Efficient Starting of Pump Turbine Equipped with Doubly Fed Induction Machine		Within	
	Development of Model Predictive Controller for speed control in a hydropower plant		Within	
18	Sanjeev Manhas	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	CMOS Compatible Micro-machined Piezoelectric Energy Harvester		Within	
	Impedimetric sensors for cytotoxicity analysis		Within	
19	Ranjana Pathania	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Methods and compositions for identification of novel anti-persister activity of GRAS compounds		Within	
	A Therapeutic composition for the treatment of resistant and persistent bacterial infections		Within	
20	Sudipta Sarkar	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A hybrid iron sulfide impregnated anion exchanger (HISIIX) for selective removal of hexavalent chromium from contaminated water		Within	
21	B.K. Kaushik	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A single stage multi-spectral image and video dehazing system and its method thereof		Within	
	MTJ based NVM and logic devices - A Review on Spintronics		Within	
22	V.C. Srivastava	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A one pot, two -step electrochemical method for the synthesis of graphene oxide and graphene oxide metal composite		Within	
23	Debrupa Lahiri	Associate professor	Idea/Innovation Development,Entrepreneurship/Startup Development,IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Bioengineered regenerative scaffold for second and third burn wound healing		Within	
	Heal-Agnostic Innovations		Within	
24	Prabhat Mandal	Professor	Idea/Innovation Development,IPR Protection & Commercialization	10

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

	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Polyclonal human LINE-1 ORF2p antibody and method thereof		Within	
25	Dharmendra Singh	Professor	Idea/Innovation Development,Entrepreneurship/Startup Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Electromagnetic radiation reduction box (EMR2B) in the communication bands (0.5 to 3.0GHz)		Within	
	Dirghadhi Technology		Within	
26	Indranil Lahiri	Associate Professor	Idea/Innovation Development,Entrepreneurship/Startup Development,IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Biosensor for detecting cancer using exhaled breath		Within	
	Heal-Agnostic Innovations		Within	
27	Paritosh Mohanty	Professor	Idea/Innovation Development,IPR Protection & Commercialization	12
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A process for immobilization of metal oxide/ metal hydroxide nanofillers in paper matrices by a rapid microwave assisted method.		Within	
28	Yogesh Sharma	Associate Prof	Idea/Innovation Development,Entrepreneurship/Startup Development,IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A method of synthesizing pure phase sodium manganese silicate (Na <sub>2</sub> MnSiO <sub>4</sub> )		Within	
	Indigenous Energy Storage		Within	
29	Shaily Tomar	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Chikungunya virus titration and detection kit		Within	
	An antiviral composition against alphaviruses		Within	
30	Soumitra Satapathi	Associate professor	Idea/Innovation Development,Entrepreneurship/Startup Development,IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	CELL CYTOTOXICITY ASSAY DEVICE AND METHOD OF MANUFACTURING THEREOF		Within	
	Biofluidics Innovation		Within	
31	N. C. Misra	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15

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

	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Wound healing materials in the form of powered particles, get and porous sheet		Within	
	An in-situ polymer-based drug loaded hydrogel system and method thereof		Within	
32	Anjan Sil	Professor	Idea/Innovation Development, IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Development of porous alumina film on conducting glass substrate to enhance the voltage of silicon based thermophotovoltaic devices.		Within	
	A novel electrode composite for high power and high energy application in rechargeable lithium-ion battery		Within	
33	Pyari Mohan Pradhan	Professor	Idea/Innovation Development, IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A lifetime enhancer for non-rechargeable battery powered wireless sensor node		Within	
34	Sumana Ghosh	Professor	Idea/Innovation Development, IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A small sized reactor to produce biodiesel from non-edible oil		Within	
35	Prasenjit Mondal	Professor	Idea/Innovation Development, IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A small sized reactor to produce biodiesel from non-edible oil		Within	
36	V.C. Srivastava	Professor	Idea/Innovation Development, IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A system and method of simultaneous denitrification and oxidation of industrial wastewaters		Within	
	A one pot, two -step electrochemical method for the synthesis of graphene oxide and graphene oxide metal composite		Within	
37	Debrupa Lahiri	Associate professor	Idea/Innovation Development, IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Bioengineered regenerative scaffold for second and third burn wound healing		Within	
38	D. K. Dwivedi	Professor	Idea/Innovation Development, IPR Protection & Commercialization	16
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Modification of chemical composition and properties of A-TIG weld joints of dissimilar steels		Within	

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

39	Arup Kumar Das	Professor	Idea/Innovation Development,IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A system and method for the detection of physical exhaustion level of human beings		Within	
40	Bhavesh R. Bhalja	Professor	Idea/Innovation Development,IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Add-on device and its method to prevent breaker-failure mal-operations		Within	
41	Varun Sharma	Professor	Idea/Innovation Development,IPR Protection & Commercialization	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A hydrogel based abrasive media for abrasive flow machining and process of preparation thereof		Within	
42	P. Gopinath	Professor	Idea/Innovation Development,IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	3-D Porous scaffolds for bone tissue engineering		Within	
	Low-cost, autoclavable and multifunctional biomaterial based nanofibrous permeable hanging cell culture insert and fabrication thereof		Within	
	Impedimetric sensors for cytotoxicity analysis		Within	
Fluorescence based cost-effective rapid diagnostic kit for detection of cancerbiomarkers		Within		
43	M.M. Joglekar	Professor	Idea/Innovation Development,IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A dielectric elastomer based electrically tunable reflector with variable focal length		Within	
44	Anil Kumar	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	AN ULTRAFast RESISTIVE TYPE HUMIDITY SENSOR BASED ON NANOHYBRIDS		Within	
45	Sanjoy Ghosh	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Real time in-situ single optical density probe for biomass, substrate and product dynamics measurements in photobioreactor/bioreactor		Within	
46	Pankaj Agrawal	Professor	Idea/Innovation Development,IPR Protection & Commercialization	15

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

	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	A system and method for seismic retrofitting of severely damaged reinforced concrete frame buildings using coupler-box section		Within	
47	K. B. Mishra	Professor	Idea/Innovation Development, IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Method and apparatus for testing fire behavior of façade materials		Within	
48	G D Verma	Professor	Idea/Innovation Development, IPR Protection & Commercialization	16
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	AN ULTRAFAST RESISTIVE TYPE HUMIDITY SENSOR BASED ON NANOHYBRIDS		Within	
49	Amit Agarwal	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Dashboard Integration with Household Travel Surveys		Within	
50	Ravi Sharma	Professor	Idea/Innovation Development	8
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Integrating Deep Learning Methods and Geostatistics For 3D Geological Reservoir Property Prediction		Within	
51	Ram P Bharti	Professor	Idea/Innovation Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Electroviscous effects in Microfluidics device		Within	
52	Pushpa Choudhary	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	An Exploratory Study on the Prevalence of ADAS (Advanced Driver Assistance Systems) in India		Within	
53	Hari Prakash Veluswamy	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Cost Analysis of Hydrate-Based Gas Separation of a binary mixture of Methane and Carbon Dioxide		Within	
54	Prateek Jha	Professor	Idea/Innovation Development	10



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

	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Optimization of Polymer Predictors for Drug Delivery Systems, using Machine Learning Approaches	Within	
55	Manish Shrikhande	Professor	Idea/Innovation Development
	15		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	An intuitive wavelet based approach to predict earthquake ground motion	Within	
56	Anshu Anand	Professor	Idea/Innovation Development
	5		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Study of mixing of spherical particles in pneumatic conveying	Within	
57	ASHUTOSH CHAMOLI	Professor	Idea/Innovation Development
	5		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Flexural modelling of the lithospheric plate and its application in Himalaya	Within	
58	Vipul Silwal	Professor	Idea/Innovation Development
	5		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Using Deep Learning for detecting events of 2017 Batangas earthquake swarm	Within	
59	Pratham Arora	Professor	Idea/Innovation Development
	5		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Economic analysis of solar fertilizer production (UBA)	Within	
60	Rhythm Singh	Professor	Idea/Innovation Development
	5		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Stochastic Hydro thermal solar scheduling using Monte Carlo simulation	Within	
61	Kasiviswanathan K S	Professor	Idea/Innovation Development
	5		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Water Hyacinth: Spatio-temporal mapping and biomass estimation using Remote Sensing and GIS	Within	
62	Thanga Raj Chelliah	Professor	Idea/Innovation Development
	10		
	Name of Idea/Innovation/ Startup Mentored	Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Development of Model Predictive Controller for speed control in a hydropower plant	Within	

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

63	M L Kansal	Professor	Idea/Innovation Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	The measurement of Well-being and other aspects of mental health		Within	
64	Sumit Sen	Professor	Idea/Innovation Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Application of InVEST Ecosystem Services Model for a Himalayan Watershed Using Composite Imagery		Within	
65	Narendra Goel	Professor	Idea/Innovation Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Hydrological studies for upstream of Hirakud Dam		Within	
Impact of additional spillways of Hirakud in downstream areas		Within		
66	Anil Kumar Gourishetty	Hydrology	Idea/Innovation Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Simulation of Voltage Pulses from Scintillation Detectors for Nuclear Radiation		Within	
67	Ankit Agarwal	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Accounting magnitude, spatial extent and duration for ranking of extreme precipitation events in Indian Western Himalayan		Within	
68	Brijesh Kumar Yadav	Professor	Idea/Innovation Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Multivariate statistical method to water quality assessment in Bhilwara, Rajasthan		Within	
69	Sachin Kumar Srivastava	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Theoretical Modelling of Photonic Multilayered Bloch Surface Wave Structures		Within	
70	Idhaya Chandhiran Ilampooranan	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Groundwater status in Rapidly Growing Indian cities		Within	
71	Abhishek Tewari	Professor	Idea/Innovation Development	5

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

	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Atomistic modeling of grain boundary segregation in Zinc Oxide		Within	
72	Sohom Chakrabarty	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Research Project Management System		Within	
73	G. N. Pillai	Professor	Idea/Innovation Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Short term electric load forecasting using dual stage attention based recurrent neural networks		Within	
74	Meenakshi Rawat	Associate Professor	Idea/Innovation Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Self interference cancellation in a software defined radio		Within	
75	B.K. Kaushik	Professor	Idea/Innovation Development	12
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	MTJ based NVM and logic devices - A Review on Spintronics		Within	
76	Dheeraj Kumar	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Automatic Linguistic Summariser for clustering results		Within	
77	Sudeb Dasgupta	Professor	Idea/Innovation Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Capacitance modeling of Double Gate Tunnel Field Effect Transistor (DG TFET)		Within	
78	Anand Bulusu	Professor	Idea/Innovation Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Impact of spatial variations in CMOS band-gap reference circuits		Within	
79	Darshak Bhatt	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Sallen-Key filter with a passband of 10KHz to 5MHz, designed using a 130 nm CMOS process		Within	

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

80	Sudip Roy	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Comparative study of evacuation scenarios In panicked and non- panicked state using Unity tool.		Within	
81	Balasubramanian Raman	Professor	Idea/Innovation Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Study of hand gesture recognition problem using computer vision techniques		Within	
82	Sateesh K. Peddoju	Professor	Idea/Innovation Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Android Malware Classification Using Machine Learning		Within	
83	Uttam Kumar Roy	Professor	Idea/Innovation Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Zonal Development for Patna: A review of Riverfront Developments Theories and Practices		Within	
	Street Design for Patna Metropolitan Area		Within	
Co-operative Housing as Affordable Housing- A Comparative Analysis		Within		
84	Smriti Saraswat	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Significance of Research and Documentation on Traditional Craftsmanship in Interior Architecture		Within	
85	Ram Sateesh Pasupuleti	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	United Landscapes – Integrated Pocket Development		Within	
86	Harshit Sosan Lakra	Professor	Idea/Innovation Development	8
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Development of DS3 Model for Flood Resilient Neighbourhood Design for Himalayan Region		Within	
87	Arindam Biswas	Professor	Idea/Innovation Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Inequality Modelling as a Story Telling: Hyderabad Case Study		Within	
	Regional Modelling as Story Telling		Within	

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

88	Sonal Atreya	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Designing of a Smart, Compact Kitchen Layout to Optimize Space Utilization		Within	
89	Saptarshi Kolay	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Perception of Space through the Eyes of Elderly		Within	
90	GAURAV RAHEJA	Professor	Idea/Innovation Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Inclusive Campus Map Design for IIT Roorkee		Within	
91	Shubhajit Sadhukhan	Professor	Idea/Innovation Development	5
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Importance and Satisfaction of Parameters Associated with Pedestrian Environment: A Case of Market Areas		Within	
92	Kamal Jain	Professor	Idea/Innovation Development, Entrepreneurship/Startup Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	RavenEye Geospatial		Within	
93	Yogesh Sharma	Associate Prof	IPR Protection & Commercialization	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Indigenous Energy Storage		Within	
94	Soumitra Satapathi	Associate professor	Idea/Innovation Development, Entrepreneurship/Startup Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Biofluidics Innovation		Within	
95	Indranil Lahiri	Associate Professor	Entrepreneurship/Startup Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Heal-Agnostic Innovation		Within	
96	Debrupa Lahiri	Associate professor	Idea/Innovation Development, Entrepreneurship/Startup Development	10

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

	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Heal-Agnostic Innovation		Within	
97	Karun Rawat	Associate professor	Idea/Innovation Development,Entrepreneurship/Startup Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	LINEARIZED AMPLIFIER TECHNOLOGIES AND SERVICES		Within	
98	Mukesh Pathak	Professor	Idea/Innovation Development,Entrepreneurship/Startup Development	10
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Zunik Energies		Within	
99	N Siva Mohan Reddy	Assistant professor	Idea/Innovation Development,Entrepreneurship/Startup Development	3
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	NSMR		Within	
100	Dharmendra Singh	Professor	Idea/Innovation Development,Entrepreneurship/Startup Development	15
	Name of Idea/Innovation/ Startup Mentored		Mentoring Setup [Within (or) Outside] HEI	CIN (in case it is Startup)
	Dirghadhi Technology		Within	

**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	Sanshadow Pvt. Ltd	IPR Protection & Commercialization	Unstructured Mentorship
2	BCIL	IPR Protection & Commercialization	Unstructured Mentorship
3	1984 Alumni Batch	Entrepreneurship/Startup Development	Unstructured Mentorship

**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	Replaceable Masks with HEPA filters	Product Innovation,Market-place Innovation	Technological	TIDES	Student	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Adopted and Implemented at Ground	No	Yes	1200000	Yes	No																																	
														Grant Amount in Rs																																
<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Jathin Jagannath</td> <td>Incubatee Entrepreneur</td> <td>Male</td> <td>tides@iitr.ac.in</td> <td>01332285736</td> </tr> </tbody> </table>														Name	Type	Gender	Email	Contact	Jathin Jagannath	Incubatee Entrepreneur	Male	tides@iitr.ac.in	01332285736																							
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Name	Type	Gender	Email	Contact																																										
Biosensors for detecting cancer	Product Innovation,Market-place Innovation	Technological	TIDES	Student-Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	Yes	1200000	Yes	No																																		
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Name	Type	Gender	Email	Contact																																										
Prof Debrupa Lahiri	Faculty	Female	tides@iitr.ac.in	01332285736																																										
Siddharth Sharma	Student	Male	tides@iitr.ac.in	01332285736																																										
High performance Li-ion and Sodium ion battery technologies	Product Innovation,Process Innovation	Technological	TIDES	Student-Faculty	TRL 2 : Technology formulation. Concept and application have been formulated .	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	Yes	1200000	Yes	No																																		
													Grant Amount in Rs																																	





Name	Type	Gender	Email	Contact
Avinash Gupta	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736

Name	Email
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7	Baseband controlled linearization of High Power Amplifiers	Process Innovation	Technological	Nil	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	Yes	No
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Name	Type	Gender	Email	Contact
Meenakshi Rawat	Faculty	Female	ipr-cell@iitr.ac.in	01332285873

Name	Type	Gender	Email	Contact
Girish Chandra Tripathi	Student	Male	ipr-cell@iitr.ac.in	01332285873

8	NPA: A multilevel high power factor AC-DC converter	Process Innovation	Technological	NIL	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
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Name	Type	Gender	Email	Contact
PramodAgrawal,	Faculty	Male	ipr-cell@iitr.ac.in	01332285873

Name	Type	Gender	Email	Contact
Naveen Yalla	Student	Male	ipr-cell@iitr.ac.in	01332285873

Name	Type	Gender	Email	Contact
Narendra Babu Avalamandu	Student	Male	ipr-cell@iitr.ac.in	01332285873

9	Single stranded nucleotides sequences specific for binding to Acinetobacter baumannii and uses thereof	Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
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Name	Type	Gender	Email	Contact
Naveen K Navani,	Faculty	Male	ipr-cell@iitr.ac.in	01332285873

Name		Type			Gender		Email			Contact			
Shahnawaz A. Baba		Student			Male		ipr-cell@iitr.ac.in			01332285873			
Piyush Kumar		Student			Male		ipr-cell@iitr.ac.in			01332285873			
10	A device for pressurized multiphase flow during electrochemical discharge machining process	Product Innovation	Technological	Tinkering Lab	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type			Gender		Email			Contact		
	Akshay Divedi		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	Name		Type			Gender		Email			Contact		
Rajendra Kumar		Student			Male		ipr-cell@iitr.ac.in			01332285873			
11	Probiotic edible film and method of its preparation	Process Innovation	Technological	NIL	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	No	No	Grant Amount in Rs 40000	No	No
	Name		Type			Gender		Email			Contact		
	Naveen Kumar Navani		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	Name		Type			Gender		Email			Contact		
Anupama Semwal		Student			Female		ipr-cell@iitr.ac.in			01332285873			
Arun Beniwal		Student			Male		ipr-cell@iitr.ac.in			01332285873			
12	A System and Method for Energy Efficient Starting of Pump Turbine Equipped with Doubly Fed Induction Machine	Product Innovation	Technological	NIL	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	No	No	Grant Amount in Rs 40000	No	No
	Name		Type			Gender		Email			Contact		
Thanga Raj Chelliah		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			

Name	Type	Gender	Email	Contact
-	Faculty	Male	ipr-cell@iitr.ac.in	01332285873
-	Student	Male	ipr-cell@iitr.ac.in	01332285873
-	Student	Male	ipr-cell@iitr.ac.in	01332285873
-	Student	Male	ipr-cell@iitr.ac.in	01332285873

13	CMOS Compatible Micro-machined Piezoelectric Energy Harvester	Product Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name	Type	Gender	Email	Contact									
Sanjeev Manhas	Faculty	Male	ipr-cell@iitr.ac.in	01332285873									

Name	Type	Gender	Email	Contact
M.M. Joglekar	Faculty	Male	ipr-cell@iitr.ac.in	01332285873
Sandeep Singh Chauhan	Student	Male	ipr-cell@iitr.ac.in	01332285873

14	Methods and compositions for identification of novel anti-persister activity of GRAS compounds	Process Innovation	Technological	NIL	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name	Type	Gender	Email	Contact									
Ranjana Pathania	Faculty	Female	ipr-cell@iitr.ac.in	1332285873									

Name	Type	Gender	Email	Contact
Timsy Bhando	Student	Female	ipr-cell@iitr.ac.in	1332285873
Ananth Casius	Student	Male	ipr-cell@iitr.ac.in	1332285873

15	A hybrid iron sulfide impregnated anion exchanger (HISIIIX) for selective removal of hexavalent chromium from contaminated water	Process Innovation	Technological	NIL	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
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Name		Type		Gender		Email		Contact					
Sudipta Sarkar		Faculty		Male		ipr-cell@iitr.ac.in		01332285873					
Name		Type		Gender		Email		Contact					
Laiju A.R		Student		Male		ipr-cell@iitr.ac.in		01332285873					
16	A single stage multi-spectral image and video dehazing system and its method thereof	Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type		Gender		Email		Contact					
B.K.Kaushik		Faculty		Male		ipr-cell@iitr.ac.in		01332285873					
Name		Type		Gender		Email		Contact					
Rahul Kumar		Student		Male		ipr-cell@iitr.ac.in		01332285873					
17	A one pot, two -step electrochemical method for the synthesis of graphene oxide and graphene oxide metal composite	Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type		Gender		Email		Contact					
V.C.Srivastava		Faculty		Male		ipr-cell@iitr.ac.in		0132285873					
Name		Type		Gender		Email		Contact					
-		Student		Male		ipr-cell@iitr.ac.in		0132285873					
18	Bioengineered regenerative scaffold for second and third burn wound healing	Process Innovation	Technological	NIL	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type		Gender		Email		Contact					
Debrupa Lahir		Faculty		Female		ipr-cell@iitr.ac.in		01332285873					

Name		Type			Gender		Email			Contact			
Partha Roy		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Swati Halder		Student			Female		ipr-cell@iitr.ac.in			01332285873			
-		Student			Female		ipr-cell@iitr.ac.in			01332285873			
Souvik Ghosh		Student			Male		ipr-cell@iitr.ac.in			01332285873			
Viney Kumar		Student			Male		ipr-cell@iitr.ac.in			01332285873			
19	Polyclonal human LINE-1 ORF2p antibody and method thereof	Process Innovation	Technological	NIL	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Prabhat Mandal		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
Koel Mukherjee		Student			Female		ipr-cell@iitr.ac.in			01332285873			
Debpali Sur		Student			Female		ipr-cell@iitr.ac.in			01332285873			
20	Electromagnetic radiation reduction box (EMR2B) in the communication bands (0.5 to 3.0GHz)	Product Innovation	Technological	NIL	Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Dharmendra Singh		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
Varsha Singh		Student			Female		ipr-cell@iitr.ac.in			01332285873			
SmithaPuthucheri		Student			Female		ipr-cell@iitr.ac.in			01332285873			

21	Biosensor for detecting cancer using exhaled breathe	Product Innovation	Technological	NIL	Faculty	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Indranil Lahiri		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
Debrupa Lahiri		Faculty			Female		ipr-cell@iitr.ac.in			01332285873			
Partha Roy		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Siddharth Sharma		Student			Male		ipr-cell@iitr.ac.in			01332285873			
Swati Halder		Student			Female		ipr-cell@iitr.ac.in			01332285873			
22	A process for immobilization of metal oxide/ metal hydroxide nanofillers in paper matrices by a rapid microwave assisted method.	Process Innovation	Technological	NIL	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	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Paritosh Mohanty		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
Sudiksha Agrawal		Student			Female		ipr-cell@iitr.ac.in			01332285873			
23	A method of synthesizing pure phase sodium manganese silicate (Na <sub>2</sub> MnSiO <sub>4</sub> )	Process Innovation	Technological	NIL	Faculty	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Yogesh Sharma		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			

Name		Type			Gender		Email			Contact			
Harishpal Kumar		Student			Male		ipr-cell@iitr.ac.in			01332285873			
24	Chikungunya virus titration and detection kit	Product Innovation, Process Innovation	Technological	Design Innovation Centre	Faculty	TRL 2 : Technology formulation. Concept and application have been formulated.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	No	70000	No	No
	Name		Type			Gender		Email			Contact		
	Shaily Tomar		Faculty			Female		ipr-cell@iitr.ac.in			01332285873		
	Name		Type			Gender		Email			Contact		
	Parvindra Kumar		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	Neetu		Student			Female		ipr-cell@iitr.ac.in			01332285873		
Vedita Anad Singh		Student			Female		ipr-cell@iitr.ac.in			01332285873			
Shweta Choudhary		Student			Female		ipr-cell@iitr.ac.in			01332285873			
25	Lab-on-a Chip device for cytotoxicity assessment	Product Innovation, Process Innovation	Technological	Tinkering Lab	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	No	No	40000	No	No
	Name		Type			Gender		Email			Contact		
	Soumitra Satapathi		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	Name		Type			Gender		Email			Contact		
	Partha Roy		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
Ankit Kumar		Student			Male		ipr-cell@iitr.ac.in			01332285873			
-		Student			Male		ipr-cell@iitr.ac.in			01332285873			
26	Wound healing materials in the form of powered particles, gel and porous sheet	Product Innovation, Process Innovation	Technological	NIL	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	No	No	40000	No	No

Name		Type			Gender		Email			Contact			
N. C. Misra		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
Hemant Singh		Student			Male		ipr-cell@iitr.ac.in			01332285873			
Shiv Dutt Purohit		Student			Male		ipr-cell@iitr.ac.in			01332285873			
27	Development of porous alumina film on conducting glass substrate to enhance the voltage of silicon based thermophotovoltaic devices.	Product Innovation	Technological	NIL	Faculty	TRL 2 : Technologically formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Anjan Sil		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
Soumya Shankar Ghosh		Student			Male		ipr-cell@iitr.ac.in			01332285873			
28	A Therapeutic composition for the treatment of resistant and persistent bacterial infections	Process Innovation	Technological	NIL	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Ranjana Pathania		Faculty			Female		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
-		Student			Female		ipr-cell@iitr.ac.in			01332285873			
29	An adaptive feedback controlled electric hydro dissection device	Product Innovation	Technological	Design Innovation Centre	Student	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	No	Grant Amount in Rs 30000	No	No



Name	Type	Gender	Email	Contact									
Akshay Dvivedi	Faculty	Male	ipr-cell@iitr.ac.in	01332285873									
Name	Type	Gender	Email	Contact									
Rajendra Kumar Arya	Student	Male	ipr-cell@iitr.ac.in	01332285873									
30	A novel electrode composite for high power and high energy application in rechargeable lithium-ion battery	Product Innovation, Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name	Type	Gender	Email	Contact								
	Anjan Sil	Faculty	Male	ipr-cell@iitr.ac.in	01332285873								
Name	Type	Gender	Email	Contact									
Hari Raj	Student	Male	ipr-cell@iitr.ac.in	01332285873									
31	A lifetime enhancer for non-rechargeable battery powered wireless sensor node	Product Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name	Type	Gender	Email	Contact								
	Pyari Mohan Pradhan	Faculty	Male	ipr-cell@iitr.ac.in	01332285873								
Name	Type	Gender	Email	Contact									
Ritesh Garg	Student	Male	ipr-cell@iitr.ac.in	01332285873									
32	A small sized reactor to produce biodiesel from non-edible oil	Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name	Type	Gender	Email	Contact								
Sumana Ghosh	Faculty	Female	ipr-cell@iitr.ac.in	01332285873									

Name		Type			Gender		Email			Contact			
P.Mondal		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Raj Kumar Verma		Student			Male		ipr-cell@iitr.ac.in			01332285873			
33	A system and method of simultaneous denitrification and oxidation of industrial wastewaters	Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type			Gender		Email			Contact		
	V.C. Srivastava		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	Name		Type			Gender		Email			Contact		
Rohit Chauhan		Student			Male		ipr-cell@iitr.ac.in			01332285873			
34	Modification of chemical composition and properties of A-TIG weld joints of dissimilar steels	Product Innovation, Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type			Gender		Email			Contact		
	D. K. Dwivedi		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	Name		Type			Gender		Email			Contact		
	Anup Kulkarni		Student			Male		ipr-cell@iitr.ac.in			01332285873		
Pratishtha		Student			Female		ipr-cell@iitr.ac.in			01332285873			
Anagdha		Student			Female		ipr-cell@iitr.ac.in			01332285873			
35	A system and method for the detection of physical exhaustion level of human beings	Product Innovation	Technological	Tinkering Lab	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No

Name		Type		Gender		Email		Contact					
Arup Kumar Das		Faculty		Male		ipr-cell@iitr.ac.in		01332285873					
Name		Type		Gender		Email		Contact					
Vikas Kannojiya		Student		Male		ipr-cell@iitr.ac.in		01332285873					
Gunipe Prasanth Kumar		Student		Male		ipr-cell@iitr.ac.in		01332285873					
36	An antiviral composition against alphaviruses	Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type		Gender		Email		Contact					
Shailly Tomar		Faculty		Female		ipr-cell@iitr.ac.in		01332285873					
Name		Type		Gender		Email		Contact					
Rajat Mudgal		Student		Male		ipr-cell@iitr.ac.in		01332285873					
Aakriti Dubey		Student		Female		ipr-cell@iitr.ac.in		01332285873					
37	An in-situ polymer-based drug loaded hydrogel system and method thereof	Product Innovation, Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type		Gender		Email		Contact					
N.C. Mishra		Faculty		Male		ipr-cell@iitr.ac.in		01332285873					
Name		Type		Gender		Email		Contact					
Indus Yadav		Student		Male		ipr-cell@iitr.ac.in		01332285873					
-		Student		Male		ipr-cell@iitr.ac.in		01332285873					
Sakchi Bhushan		Student		Female		ipr-cell@iitr.ac.in		01332285873					
Hemant Singh		Student		Male		ipr-cell@iitr.ac.in		01332285873					

38	Add-on device and its method to prevent breaker-failure mal-operations	Product Innovation,Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type		Gender		Email		Contact				
	Bhavesh R. Bhalja		Faculty		Male		ipr-cell@iitr.ac.in		01332285873				
39	A hydrogel based abrasive media for abrasive flow machining and process of preparation thereof	Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type		Gender		Email		Contact				
	Varun Sharma		Faculty		Male		ipr-cell@iitr.ac.in		01332285873				
40	3-D Porous scaffolds for bone tissue engineering	Product Innovation,Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated .	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type		Gender		Email		Contact				
	P. Gopinath		Faculty		Male		ipr-cell@iitr.ac.in		01332285873				
38	Soumitri Jena	Name		Type		Gender		Email		Contact			
		Soumitri Jena		Student		Male		ipr-cell@iitr.ac.in		01332285873			
		Nitin Dixit		Student		Male		ipr-cell@iitr.ac.in		01332285873			
39	Pradeep Kumar	Name		Type		Gender		Email		Contact			
		Pradeep Kumar		Faculty		Male		ipr-cell@iitr.ac.in		01332285873			
		Nitin Dixit		Student		Male		ipr-cell@iitr.ac.in		01332285873			
40	Sarim Khan	Name		Type		Gender		Email		Contact			
		Sarim Khan		Student		Male		ipr-cell@iitr.ac.in		01332285873			
		P. Gopinath		Faculty		Male		ipr-cell@iitr.ac.in		01332285873			

41	Low-cost, autoclavable and multifunctional biomaterial based nanofibrous permeable hanging cell culture insert and fabrication thereof	Product Innovation, Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type			Gender		Email			Contact		
	P. Gopinath		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	Name		Type			Gender		Email			Contact		
	Vinay Kumar		Student			Male		ipr-cell@iitr.ac.in			01332285873		
Soumyadeep Basak		Student			Male		ipr-cell@iitr.ac.in			01332285873			
42	Impedimetric sensors for cytotoxicity analysis	Product Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type			Gender		Email			Contact		
	Sanjeev Manhas		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	-		Faculty			Male		ipr-cell@iitr.ac.in			01332285873		
	Rangadhar Pradhan		Student			Male		ipr-cell@iitr.ac.in			01332285873		
Ashish		Student			Male		ipr-cell@iitr.ac.in			01332285873			
43	A device for rotatory disc grinding with adaptive feeding for electrochemical discharge machining process and a method thereof	Product Innovation, Process Innovation	Technological	Design Innovation Centre	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	No	Grant Amount in Rs 50000	No	No
	Name		Type			Gender		Email			Contact		
Akshay Divedi		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			

Name		Type		Gender		Email		Contact					
Rajendra Kumar Arya		Student		Male		ipr-cell@iitr.ac.in		01332285873					
Tarlochan Singh		Student		Male		ipr-cell@iitr.ac.in		01332285873					
44	A dielectric elastomer based electrically tunable reflector with variable focal length	Product Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type		Gender		Email		Contact				
	M.M. Joglekar		Faculty		Male		ipr-cell@iitr.ac.in		01332285873				
	Name		Type		Gender		Email		Contact				
	-		Student		Male		ipr-cell@iitr.ac.in		01332285873				
	Chinmay Jivani		Student		Male		ipr-cell@iitr.ac.in		01332285873				
	Atul Kumar Sharma		Student		Male		ipr-cell@iitr.ac.in		01332285873				
	Katik Kashyap		Student		Male		ipr-cell@iitr.ac.in		01332285873				
Parmod Kumar		Student		Male		ipr-cell@iitr.ac.in		01332285873					
45	An ultrafast resistive type humidity sensor based on nanohybrids	Product Innovation, Process Innovation	Technological	NIL	Faculty	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
	Name		Type		Gender		Email		Contact				
	Anil Kumar		Faculty		Male		ipr-cell@iitr.ac.in		01332285873				
	Name		Type		Gender		Email		Contact				
	G.D. Varma		Faculty		Male		ipr-cell@iitr.ac.in		01332285873				
Atul Kumar		Student		Male		ipr-cell@iitr.ac.in		01332285873					

46	Real time in-situ single optical density probe for biomass, substrate and product dynamics measurements in photobioreactor/bioreactor	Process Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Sanjoy Ghosh		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
Shaliendra Singh Khichi		Student			Male		ipr-cell@iitr.ac.in			01332285873			
47	A system and method for seismic retrofitting of severely damaged reinforced concrete frame buildings using coupler-box section	Product Innovation	Technological	NIL	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
Pankaj Agrawal		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
K.V Naveen Kumar		Student			Male		ipr-cell@iitr.ac.in			01332285873			
Dr. R.Siva Chidambaram		Student			Male		ipr-cell@iitr.ac.in			01332285873			
48	A four valve for directional control and mixing of fluids	Product Innovation	Technological	Design Innovation Centre	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 40000	No	No
Name		Type			Gender		Email			Contact			
A.K. Sharma		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			

Name		Type		Gender		Email		Contact					
T.R.Chelliah		Faculty		Male		ipr-cell@iitr.ac.in		01332285873					
-		Student		Male		ipr-cell@iitr.ac.in		01332285873					
Radha Raman Mishra		Student		Male		ipr-cell@iitr.ac.in		01332285873					
49	Fluorescence based cost-effective rapid diagnostic kit for detection of cancerbiomarkers	Product Innovation,Process Innovation	Technological	NIL	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	No	No	Grant Amount in Rs 40000	No	No
Name		Type		Gender		Email		Contact					
P. Gopinath		Faculty		Male		ipr-cell@iitr.ac.in		01332285873					
Name		Type		Gender		Email		Contact					
Ashish		Student		Male		ipr-cell@iitr.ac.in		01332285873					
Rangadhar Pradhan		Student		Male		ipr-cell@iitr.ac.in		01332285873					
50	Method and apparatus for testing fire behavior of façade materials	Product Innovation,Process Innovation	Technological	NIL	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	No	No	Grant Amount in Rs 40000	No	No
Name		Type		Gender		Email		Contact					
K. B. Mishra		Faculty		Male		ipr-cell@iitr.ac.in		01332285873					
Name		Type		Gender		Email		Contact					
Ankit sharma		Student		Male		ipr-cell@iitr.ac.in		01332285873					
51	Development of Microfluidic chip for dilation of slurry	Product Innovation	Technological	Tinkering Lab	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed .	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	Innovation Development Ongoing	No	No	No	Yes	No
Name		Type		Gender		Email		Contact					
Arup Kumar Das		Faculty		Male		arup.das@me.iitr.ac.in		01332284802					



Name		Type			Gender		Email			Contact			
Gunipe Prasanth Kumar		Student			Male		arup.das@me.iitr.ac.in			01332284802			
52	Low frequency and wide bandgap metamaterial with divergent shaped star units	Product Innovation	Technological	Tinkering Lab	Faculty	TRL 0 : Idea. Unproven concept, no testing has been performed .	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Innovation Development Ongoing	No	No	No	No	No
	Name		Type			Gender		Email			Contact		
	Siladitya Pal		Faculty			Male		siladitya.pal@me.iitr.ac.in			9897854480		
Name		Type			Gender		Email			Contact			
-		Faculty			Male		siladitya.pal@me.iitr.ac.in			9897854480			
53	Diagnosis method for malaria using artificial intelligence	Product Innovation,Market-place Innovation	Technological		External to the Institute/Incubatee	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	Yes	No	No	No
	Name		Type			Gender		Email			Contact		
Priyanjit Ghosh		Innovator/Entrepreneur External to Institute			Male		tides@iitr.ac.in			01332285736			
Name		Type			Gender		Email			Contact		54	
Solutions to enable easy management and maintenance of the electric vehicle charging infrastructure.	Product Innovation,Market-place Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	Yes	No	No		No
Name		Type			Gender		Email			Contact		Name Email	
Akshay		Innovator/Entrepreneur External to Institute			Male		tides@iitr.ac.in			01332285736			

55	Data monitoring and analytics platform for renewable energy plants focused on enhancing the plant performance.	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Completed	No	Yes	No	No	No
Name		Type			Gender		Email			Contact			
Anik Agarwal		Innovator/Entrepreneur External to Institute			Male		tides@iitr.ac.in			01332285736			

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Name		Type			Gender		Email			Contact				
Effective Predictive maintenance system to reduce unplanned downtime more than 80%	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Completed	No	Yes	No	No	No	No	

Name		Type			Gender		Email			Contact			Name	Email
Kaushlendra Singh Sisodia		Innovator/Entrepreneur External to Institute			Male		tides@iitr.ac.in			01332285736				

57	Treating waste water at low cost and maintenance using IoT	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	Yes	No	No	No
Name		Type			Gender		Email			Contact			
Sagar Bakoru		Innovator/Entrepreneur External to Institute			Male		tides@iitr.ac.in			01332285736			

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Name		Type			Gender		Email			Contact				
One payment Solution for B2B payments along with B2C payments	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 3 : Applied research. First laboratory tests completed ; proof of concept.	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	Yes	No	No	No	No	

Name	Type	Gender	Email	Contact
Ravi Gupta	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736

Name	Email
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59	Tracking the shortcomings of present electric vehicle with urban micro mobility.	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Completed	No	Yes	No	No	No
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Name	Type	Gender	Email	Contact
SriHarsha Kanumalla	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736

Name	Type	Gender	Email	Contact
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Developing a wind energy generator with conical blades	Product Innovation, Market-place Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 6 : Prototype system tested in intended environment close to expected performance.	Innovation Development Ongoing	No	Yes	No	No	No	60
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Name	Type	Gender	Email	Contact
Avinash Gupta	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736

Name	Email
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61	Smart Parking Management System based on IoT Platform and Image Processing	Product Innovation, Market-place Innovation	Technological		External to the Institute/Incubatee	TRL 5 : Large scale prototype tested in intended environment.	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Completed	No	Yes	No	No	No
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Name	Type	Gender	Email	Contact
Ajay Masur	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736

Name	Type	Gender	Email	Contact
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IoT device to monitor the cleanliness of toilets at public places	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Completed	No	Yes	No	No	No	
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Name	Type	Gender	Email	Contact	Name	Email
Samir Dayal Singh	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736		

63	App to exercise and sleep enough, by asking users to earn their screentime with steps and sleep that we track using a fitness tracker.	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Completed	No	Yes	No	No	No
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Name	Type	Gender	Email	Contact
Fazle Imdad Shirpurwala	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736

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Name	Type	Gender	Email	Contact	Name	Email							
eMobility ecosystem IoT enabled, shared technology solution for EV Charging, Battery Swapping, ParkNC harge	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 8 : First of a kind commercial system. Manufacturing issues solved.	Innovation Development Completed	No	Yes	No	No	No	

Name	Type	Gender	Email	Contact	Name	Email
Sumit Ahuja	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736		

65	Easy to use, equipment free, rapid, quantitative immunoassay microfluidic chip	Product Innovation, Process Innovation	Technological		Alumni	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Completed	No	Yes	No	No	No
Name		Type			Gender		Email			Contact			
Rohan Aggarwal		Alumni Entrepreneur			Male		tides@iitr.ac.in			01332285736			

														66
Name		Type			Gender		Email			Contact				
Artificial Intelligence based Real - Time Traffic Management System	Product Innovation, Process Innovation	Technological		External to the Institute/Incubatee	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.	Innovation Development Ongoing	No	No	No	No	No	No	

Name		Type			Gender		Email			Contact			Name	Email
Dhaval Modi		Innovator/Entrepreneur External to Institute			Male		tides@iitr.ac.in			01332285736				

67	A system and method for through wall imaging	Product Innovation	Technological	Electronics and Communication Department	Faculty	TRL 2 : Technology formulation. Concept and application have been formulated.	TRL 5 : Large scale prototype tested in intended environment.	Innovation Development Ongoing	No	No	Grant Amount in Rs 11 64 60	No	No
Name		Type			Gender		Email			Contact			
Dharmendra Singh		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			
Name		Type			Gender		Email			Contact			
Smitha Puthucheri		Student			Female		ipr-cell@iitr.ac.in			01332285873			
Bambam Kumar		Student			Male		ipr-cell@iitr.ac.in			01332285873			

68	A stress relieving game equipment	Product Innovation	Technological	Department of Management Studies	Faculty	TRL 2 : Technological formulation. Concept and application have been formulated.	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovation Development Ongoing	No	No	Grant Amount in Rs 30000	No	No
Name		Type			Gender		Email			Contact			
Rajib Lochan Dhar		Faculty			Male		ipr-cell@iitr.ac.in			01332285873			

Name		Type			Gender		Email			Contact			69
Graphene based metal air battery	Product Innovation, Process Innovation	Technological		Alumni	TRL 5 : Large scale prototype tested in intended environment.	TRL 8 : First of a kind commercial system. Manufacturing issues solved.	Innovation Development Ongoing	Agency Name ISB A	Yes	Grant Amount in Rs 150000	Yes	Amount Received in Rs. 400000	
								Agency Type Not - Govt. Agencies					
								Award / Position / Recognition Secured Startup of the year					

Name		Type			Gender		Email			Contact			Name	Email
Akshay Singhal		Alumni Entrepreneur			Male		tides@iitr.ac.in			01332285736				

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

Srno	Name of the Venture/Startup/SME Unit Established with the Support of HEI	Type of Innovation of Venture/Startup/SME Unit	Nature of Innovation	Name of the Pre-Incubation/Incubation Unit of HEI Supported Innovation Development	Venture Founded by	Venture Registered as	Year of Registration	What is the current status of Pre-Incubation/Incubation Support to Venture/Startup/ SME Unit as on 31st March 2020?	Had the Venture Received any Recognition at State, National, International Level Programs during the financial period 2019-20?	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Venture establishment during the financial period 2019-20	Had the venture/startup raised any Seed fund/Angel Investment/V C 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
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1	Vyaan Purifiers	Product Innovation,Market- place Innovation	Technologica l	348	Alumni	-	2018-19	Received Incubation Support from Incubation Unit	No	12 00 00 0	Loan /Inve stme nt Agen cy Nam e	T I D E S	No	No
					Venture with Corporate Identificati on Number (CIN) Registrati on					Gr nt Am oun t in Rs	Total Loan /Ang el Inves tmen t/VC Fund raise d by Start - up durin g the perio d of pre- incub ation/ incub ation supp ort at your Pre- incub ation/ incub ation or instit ute finan cial perio d 2019 -20 (in Rupe es)	T I D E S		
	Name		DIN number		Type		Gender		Email		Contact			
	Jathin Jagannath		-		Alumni Entrepreneur		Male		tides@iitr.ac.in		01332285736			



2	Heal Agnostic Innovation	Product Innovation,Market-place Innovation	Technologica l	348	Student-Faculty	Venture with Corporate Identification Number (CIN) Registration	-	2019-20	Received Incubation Support from Incubation Unit	No	200000	Grant Amount in Rs	Loan/Investment Agency Name	TIDES	No	No
													Agency Type	TIDES		
													Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	TIDES		
													Date of Investment Raised	TIDES		

Name	DIN number	Type	Gender	Email	Contact
Prof Indranil Lahiri	-	Faculty	Male	tides@iitr.ac.in	01332285736

3	Indigenous Energy	Product Innovation,Market-place Innovation	Technological	348	Student-Faculty	Venture with Corporate Identification Number (CIN) Registration	-	2019-20	Received Incubation Support from Incubation Unit	No	1200000	Grant Amount in Rs	Loan/Investment Agency Name	TIDES	No	No
													Agency Type	TIDES		
													Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	TIDES		
													Date of Investment Raised	TIDES		

Name	DIN number	Type	Gender	Email	Contact
Akash Soni	-	Alumni Entrepreneur	Male	tides@iitr.ac.in	01332285736

4	RavenEye Geospatial	Product Innovation, Process Innovation	Technological	348	Student-Faculty	-	2019-20	Received Incubation Support from Incubation Unit	No	200000	Loan/Investment Agency Name	TIDES	No	No
						Venture with Corporate Identification Number (CIN) Registration				Grant Amount in Rs	Agency Type	TIDES		
											Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	TIDES		
											Date of Investment Raised	TIDES		

Name	DIN number	Type	Gender	Email	Contact
Prof Kamal Jain	-	Faculty	Male	tides@iitr.ac.in	01332285736

5	Shellios	Product Innovation,Market- place Innovation	Technologica l	348	Alumni	-	2017-18	Received Incubation Support from Incubation Unit	No	17 00 00 0	Loan /Inve stme nt Agen cy Nam e	T I D E S	No	No
					Venture with Corporate Identificati on Number (CIN) Registrati on					Gr ant Am oun t in Rs	Total Loan /Ang el Inves tmen t/VC Fund raise d by Start - up durin g the perio d of pre- incub ation/ incub ation supp ort at your Pre- incub ation/ incub ation or instit ute finan cial perio d 2019 -20 (in Rupe es)	T I D E S		
											Date of Inves tmen t Rais ed	T I D E S		

Name	DIN number	Type	Gender	Email	Contact
Amit Pathak	-	Alumni Entrepreneur	Male	tides@iitr.ac.in	01332285736

6	PowerZest	Product Innovation,Market- place Innovation	Technologica l	348	External to the Institute/I ncubatee	Venture with Corporate Identificati on Number (CIN) Registrati on	-	2019-20	Received Incubation Support from Incubation Unit	No	90 00 00	Loan /Inve stme nt Agen cy Nam e	T I D E S	No	No
											Gr a n t A m o u n t i n R s	Total Loan /Ang el Inves tmen t/VC Fund raise d by Start - up durin g the perio d of pre- incub ation/ incub ation supp ort at your Pre- incub ation/ incub ation or insti tute finan cial perio d 2019 -20 (in Rupe es)	T I D E S		
												Date of Inves tmen t Rais ed	T I D E S		

Name	DIN number	Type	Gender	Email	Contact
Avinash Gupta	-	Innovator/Entrepreneur External to Institute	Male	tides@iitr.ac.in	01332285736

7	Logy.AI	Product Innovation,Process Innovation,Market-place	Technologica l	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2018-19	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Priyanjit Ghosh		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				
8	Enerlytics Software Solutions	Product Innovation,Process Innovation,Market-place	Technologica l	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2017-18	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Anik Agarwal		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				
9	UniConverge Technologies	Product Innovation,Process Innovation,Market-place	Technologica l	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2013-14	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Kaushlendra Singh		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				
10	Nova Intonew	Product Innovation,Market-place Innovation	Technologica l	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2018-19	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Sagar Bakoru		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				

11	SafexPay	Product Innovation,Process Innovation	Technologica l	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2016-17	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Ravi Gupta		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				
12	Uton Energia	Product Innovation,Process Innovation,Market-place	Technologica l	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2018-19	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
SriHarsha Kanumalla		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				
13	Jaan Innovations	Product Innovation,Process Innovation,Market-place	Technologica l	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2015-16	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Ajay Masur		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				
14	Humble Innovations	Product Innovation,Process Innovation,Market-place	Technologica l	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2017-18	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Samir Dayal Singh		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				

15	Vidcare Innovations	Product Innovation, Process Innovation, Market-place	Technological	5439	Alumni	Venture with Corporate Identification Number (CIN) Registration	-	2017-18	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Rohan Aggarwal		-		Alumni Entrepreneur		Male		tides@iitr.ac.in		01332285736				
16	Linearized Amplifier Technologies	Product Innovation, Process Innovation	Technological	5439	Student-Faculty	Venture with Corporate Identification Number (CIN) Registration	-	2017-18	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Karun Rawat		-		Faculty		Male		tides@iitr.ac.in		01332285736				
17	WeSound Software	Product Innovation, Market-place Innovation	Technological	5439	External to the Institute/Incubatee	Venture with Corporate Identification Number (CIN) Registration	-	2019-20	Received Incubation Support from Incubation Unit	No	No	No	No	No
Name		DIN number		Type		Gender		Email		Contact				
Ashwin Jain		-		Innovator/Entrepreneur External to Institute		Male		tides@iitr.ac.in		01332285736				



18	Log 9 Materials Scientific	Product Innovation, Process Innovation	Technological	5439	Alumni	U29253 KA2015 PTC126 433	2015-16	Graduated from the Incubation unit	No	15 00 00 0	Loan/Investment Agency Name	Sequoia Capital	No	Yes
						Venture with Corporate Identification Number (CIN) Registration				Grant Amount in Rs	Agency Type	Sequoia Capital		
											Total Loan/Angel Investment/VC Fund raised by Start-up during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2019-20 (in Rupees)	Sequoia Capital		
											Date of Investment Raised	Sequoia Capital		

Name	DIN number	Type	Gender	Email	Contact
Akshay Singhal	-	Alumni Entrepreneur	Male	tides@iitr.ac.in	01332285736

### 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	Engineers India Limited	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation	3	01-03-2019
2	Indian Angel Network	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	5	01-05-2019
3	HDFC Bank	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Networking	4	15-04-2019
4	ZNation Labs	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Incubation, Mentoring, Networking	15	01-04-2019
5	Dassault Systems	Corporate / Industry Association	Providing (or) Receiving Mentor and Handholding Support to Support I&E Activities	Incubation	6	05-05-2019
6	Uttarakhand Govt - Uttarakhand Startups	Govt. Agency (State)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation	12	01-08-2019
7	Department of Science & Technology	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation, Seed fund	6	01-04-2019
8	Ministry of Electronics & IT	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation, Seed fund	5	01-04-2019
9	BIRAC	Govt. Agency (Central)	Providing (or) Receiving Incubation/Pre-Incubation Support Services to Innovators/Startups	Incubation, Networking	4	01-04-2019
10	Sikonic Holdings Co. Ltd.	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	25-11-2020
11	University of Central Florida Board of Trustees (UCF), Orlando, Florida	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	07-06-2019
12	American Water works Association (AWWA)	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring, Investment	1	30-04-2020
13	The Energy and Resources Institute (TERI)	Govt. Agency (State)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	24-04-2019
14	Protecon BTG Pvt. Ltd. (PBTG)	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	06-05-2019
15	Patanjali Research Foundation	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation, Networking	5	06-05-2019
16	IIT (BHU)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation, Networking	1	13-06-2019
17	Madan Mohan Malviya University of Technology, Gorakhpur	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	07-06-2019
18	National Institute of Technology Hamirpur	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	17-06-2019

19	Institute of Transport Management, Ministry of Railways (IRITM), Lucknow and ICAR (Indian Veterinary Research Institute) (ICAR-IVRI), Izat Nagar	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Mentoring,Networking	1	22-06-2019
20	Power Grid Corporation of India	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	11-07-2019
21	M.P. Rural Road Academy (MPRRA)	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	26-07-2019
22	Ambe Phytoextracts Pvt. Ltd	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	09-08-2019
23	Hitachi India Pvt. Ltd	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	13-09-2019
24	Rajiv Gandhi Institute of Petroleum Technology (RGIPT)	Govt. Agency (State)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	17-09-2019
25	Indian Council of Agriculture Research (ICAR) and Central Institute for Research on Cattle (CIRC)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	01-10-2019
26	Border Security Force (BSF)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	21-10-2019
27	Eckovation (Eckovation Solutions Pvt. Ltd.)	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	23-10-2019
28	National Institute of Hydrology (NIH)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	14-09-2019
29	APL Apollo Tubes Limited	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	27-09-2019
30	ONGC Energy Centre Trust (OECT)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Mentoring,Networking	1	18-12-2019
31	Irrigation and Flood Control Deptt. Govt. of Jammu & Kashmir	Govt. Agency (State)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	31-12-2019
32	JSW Cement Ltd	Educational Institute	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Mentoring	1	24-12-2019
33	Ministry of Electronics & Information Technology and Centre for Development of Advanced Computing (C-DAC) Hyderabad, Centre for Development of Advanced Computing (C-DAC) Bengaluru, Indian Institute of Science, Bengaluru	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Mentoring,Networking,Investment	1	17-01-2020
34	Shaikh-UI-Hind Maulana Mahmood Hasan Medical College	Govt. Agency (State)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Pre-incubation,Mentoring,Networking	1	18-01-2020
35	Teesside University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	23-01-2020
36	Reliance Digital Platform and Project Services Ltd	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Networking	1	28-01-2020
37	Chhattisgarh Institute of Medical Sciences (CIMS)	Govt. Agency (State)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Mentoring	1	18-02-2020
38	Dehradun Smart City Limited (DSCL)	Govt. Agency (State)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	29-02-2020
39	SFC Environmental Technologies Pvt. Ltd	Non-Govt. Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Networking	1	01-03-2020

40	National Institute of Design Haryana	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	07-03-2020
41	Indian Institute of Public Administration (IIPA)	Govt. Agency (Central)	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	16-03-2020
42	VSB - Technical University of Ostrava	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	25-11-2020
43	University of Parma (UNIPR)	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	25-11-2020
44	Adama Science and Technology University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	25-11-2020
45	Asian Institute of Technology (AIT)_DDP	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	28-10-2020
46	WSL Incubator	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Incubation,Mentoring,Networking	1	14-10-2020
47	Gwangju Institute of Science and Technology	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	26-09-2020
48	Liverpool Hope University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Investment	1	22-09-2020
49	Research Center on Alpine Environment (CREALP)	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	29-07-2020
50	Cranfield University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	06-07-2020
51	Loughborough University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	30-06-2020
52	Coursera, Inc.	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	19-05-2020
53	University of Salerno	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	16-05-2020
54	University of Potsdam	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	26-02-2020
55	University of Groningen	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	07-02-2020
56	University of Tokyo	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	27-01-2020
57	University of Teesside	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	23-01-2020
58	University of Alberta_JDDP	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	20-01-2020
59	GET Consultants DMCC	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	16-01-2020
60	Debre Tabor University (DTU)	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	21-12-2019
61	Hokkaido University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	05-12-2019
62	Peter The Great St. Petersburg Polytechnic University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	30-11-2019

63	University of Trento	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	01-11-2019
64	University of Strasbourg/Unistra_JDDP	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	24-09-2019
65	Hosei University- Japan, Pokhara University- Nepal, University of Dhaka-Bangladesh	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	01-09-2019
66	IHR-HydroScience & Engineering, The University of Iowa	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	28-08-2019
67	Institute of Digital Anti-Aging Healthcare (IDA), Inje University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	20-08-2019
68	National Formosa University (NFU)	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	24-07-2019
69	University of Missouri (MU), Columbia, Missouri	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	24-07-2019
70	Tel-Aviv University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	25-06-2019
71	University of Central Florida Board of Trustees (UCF), Orlando, Florida	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	07-06-2019
72	Saitama University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	06-06-2019
73	Instituto Superior Tecnico (IST)	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	24-05-2019
74	Memorial University of Newfoundland, Newfoundland & Labrador	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	22-05-2019
75	Washington State University (WSU), Pullman	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	05-05-2019
76	Universite de Strasbourg/UNISTRA	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	03-05-2019
77	East China Normal University (ECNU)	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	25-04-2019
78	University of Rochester	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	03-04-2019
79	TU9 German Universities of Technology	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	20-03-2019
80	Ghent University (Ugent)	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	20-02-2019
81	Oklahoma State University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	25-01-2019
82	Study in India (EdCIL Ltd)	Corporate / Industry Association	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	10-01-2019
83	University of Alberta	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	07-01-2019
84	Niigata University	International Agencies	Collaboration with Startups/Industry Associations/Knowledge Agencies to Promote I&E Activities and/or Internship Opportunities	Mentoring,Networking	1	01-01-2019

**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	Design and development of a low cost automated guided vehicle for Indian industries.	IPRFiledPublished	L-91858/2020	National	2019 - 12	Uploaded	Filed	--Select--
								Department of Electrical
2	BoMiProt-A database of bovine milk proteins	IPRFiledPublished	SW-13450/2020	National	2020 - 02	NA	Filed	No
								Department of Biotechnolo

### 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	Baseband controlled linearization of High Power Amplifiers	201911014390	National	2019 - 04	NA
		2	NPA: A multilevel high power factor AC-DC converter	201911014389	National
Uploaded	Uploaded	3	Single stranded nucleotides sequences specific for binding to Acinetobacterbaumannii and uses thereof	201911016947	National
2019 - 04			4	A device for pressurized multiphase flow during electrochemical discharge machining process	201911017291
National	2019 - 05	Uploaded	2019 - 05	5	Probiotic edible film and method of its preparation
201911018180	National	2019 - 05		Uploaded	6
A System and Method for Energy Efficient Starting of Pump Turbine Equipped with Doubly Fed Induction Machine	201911019294	National	2019 - 05	NA	
7	CMOS Compatible Micro-machined Piezoelectric Energy Harvester	201911020224	National	2019 - 05	Uploaded
		8	Methods and compositions for identification of novel anti-persister activity of GRAS compounds	201911023795	National
Uploaded		9	A hybrid iron sulfide impregnated anion exchanger (HISIX) for selective removal of hexavalent chromium from contaminated water	201911024268	National

2019 - 06	Uploaded		10	A one pot, two -step electrochemical method for the synthesis of graphene oxide and graphene oxide metal composite	201911026565
National	2019 - 07	NA		11	Bioengineered regenerative scaffold for second and third burn wound healing
201911026834	National	2019 - 07	NA		12
Polyclonal human LINE-1 ORF2p antibody and method thereof	201911028257	National	2019 - 07	NA	
13	Electromagnetic radiation reduction box (EMR2B) in the communication bands (0.5 to 3.0GHz)	201911030845	National	2019 - 07	NA
	14	Biosensor for detecting cancer using exhaled breath	201911030871	National	2019 - 07
NA		15	A method of synthesizing pure phase sodium manganese silicate (Na <sub>2</sub> MnSiO <sub>4</sub> )	201911032658	National
2019 - 08	NA		16	Chikungunya virus titration and detection kit	201911035044
National	2019 - 08	Uploaded		17	CELL CYTOTOXICITY ASSAY DEVICE AND METHOD OF MANUFACTURING THEREOF
201911036596	National	2019 - 09	NA		18
Wound healing materials in the form of powdered particles, gel and porous sheet	201911037476	National	2019 - 09	NA	
19	Development of porous alumina film on conducting glass substrate to enhance the voltage of silicon based thermophotovoltaic devices.	201911038839	National	2019 - 09	Uploaded
	20	A Therapeutic composition for the treatment of resistant and persistent bacterial infections	201911043932	National	2019 - 10
Uploaded		21	An adaptive feedback controlled electric hydro dissection device	201911044036	National
2019 - 10	NA		22	A novel electrode composite for high power and high energy application in rechargeable lithium-ion battery	201911044037
National	2019 - 10	Uploaded		23	A lifetime enhancer for non-rechargeable battery powered wireless sensor node
201911044035	National	2019 - 10	Uploaded		24
A small sized reactor to produce biodiesel from non-edible oil	201911044808	National	2019 - 11	Uploaded	

25	A system and method of simultaneous denitrification and oxidation of industrial wastewaters	201911046517	National	2019 - 11	NA
	26	Modification of chemical composition and properties of A-TIG weld joints of dissimilar steels	201911046518	National	2019 - 11
Uploaded					
2019 - 11	Uploaded	27	A system and method for the detection of physical exhaustion level of human beings	201911047764	National
National					
201911049671	National	2019 - 12	Uploaded	28	An antiviral composition against alphaviruses
Add-on device and its method to prevent breaker-failure mal-operations					
201911053612	National	202011001189	National	2019 - 12	29
31					
Uploaded	2020 - 01	32	3-D Porous scaffolds for bone tissue engineering	202011003365	National
2020 - 01					
National	2020 - 01	Uploaded	202011003619	Low-cost, autoclavable and multifunctional biomaterial based nanofibrous permeable hanging cell culture insert and fabrication thereof	National
202011004766					
A dielectric elastomer based electrically tunable reflector with variable focal length	2020 - 02	National	2020 - 02	Impedimetric sensors for cytotoxicity analysis	202011003839
202011005805					
37	AN ULTRAFAST RESISTIVE TYPE HUMIDITY SENSOR BASED ON NANOHYBRIDS	202011007304	National	2020 - 02	NA
38					
Uploaded	NA	39	A four valve for directional control and mixing of fluids	202011009048	National
2020 - 03					
				40	Method and apparatus for testing fire behavior of façade materials



National	2020 - 03	Uploaded		41	A process for immobilization of metal oxide/ metal hydroxide nanofillers in paper matrices by a rapid microwave assisted method.
201911031524	National	2019 - 08	Uploaded		42
A system and method for through wall imaging	PCT/IB2020/05	International	2020 - 02	NA	
43	Fluorescence based cost-effective rapid diagnostic kit for detection of cancerbiomarkers	202011010110	National	2020 - 03	Uploaded
44	A stress relieving game equipment	201911013641	National	2019 - 04	

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

Sno	Title/Name of IP	Type of IP	IP Registration Number	Current Status of IP as on 31st March 2020	Copy of IP screenshot
1	System and method for synthesis of graphene quantum dots	PatentsHoldByInnovations	US20200339425	Published	NA
	Applicant Name		Applicant Type		Start-up/Innovator Name
	LOG 9 MATERIALS SCIENTIFIC PRIVATE LIMITED		Incubatee Startup		LOG 9 MATERIALS SCIENTIFI
2	A graphene based tobacco smoke filter and a method for synthesizing graphene composition	PatentsHoldByInnovations	US20190161412	Published	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	LOG 9 MATERIALS SCIENTIFIC PRIVATE LIMITED		Incubatee Startup		LOG 9 MATERIALS SCIENTIFI
3	A novel bio reactor system for solid state fermentation and process of operation thereof	PatentsHoldByInnovations	IN20161102003	Published	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Sidharth Arora		Incubatee Innovator		Sidharth Arora
4	Lab-on-a Chip device for cytotoxicity assessment	PatentsHoldByInnovations	IN20191103747	Filed	Uploaded
	Applicant Name		Applicant Type		Start-up/Innovator Name
	Soumitra Satapathi		Incubatee Innovator		Soumitra Satapathi
5	Development of packing material-AgO onto biomass (natural sorbent metal reducer –NSMR) for antibacterial/antiviral activity	PatentsHoldByInnovations	IN20181102655	Published	NA
	Applicant Name		Applicant Type		Start-up/Innovator Name
	N Siva Mohan Reddy		Incubatee Innovator		N Siva Mohan Reddy
6	Location based video synchronizer	PatentsHoldByInnovations	IN20181101670	Published	NA



## 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. M. Parida (Head of Institute) and Prof. Rajat Agarwal (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

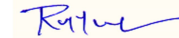
The Head of Institute



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Prof. M. Parida  
Head of the Institution,  
Roorkee, Uttarakhand

Nodal officer



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Prof. Rajat Agarwal  
Nodal Officer,  
Roorkee, Uttarakhand