



ARIIA

ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



MHRD
Ministry of Human
Resource Development
Government of India

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

Institute Name: Indian Institute of Technology Kanpur [ARI-I-1075]

Awareness / Training / Programmes organized by the Institute

Total Annual Expenditure Incurred towards Organizing Awareness, Workshop, Seminars, Training programs etc. related to promote innovation, IPR and Entrepreneurship Development

Financial Year	Program Type	Name of Program	Program Theme	Program Duration	Program Conducted	Participants Details			Expenditure Incurred		
						Number of Internal Participants	Number of External Participants	Total Number of Participants	Institute Own / Internal Fund (in Rs.)	Sponsorship / External Fund	Total Expenditure Incurred
2015-16	Workshops / Training / Seminars / Conferences	Summer Undergraduate Research and Graduate Excellence (SURGE) program	IPR	16-May-2015 to 16-May-2015 (1 Days)	Within Campus	200	0	200	0.00	0.00	0.00
2015-16	Workshops / Training / Seminars / Conferences	Summer Undergraduate Research and Graduate Excellence (SURGE) program	IPR	16-May-2016 to 16-May-2016 (1 Days)	Within Campus	200	0	200	0.00	0.00	0.00
2016-17	Workshops / Training / Seminars / Conferences	IP Awareness seminar during BIRAC Bio incubator facility inauguration	Entrepreneurship/ Startup	04-Apr-2016 to 04-Apr-2016 (1 Days)	Within Campus	80	20	100	0.00	50000.00	50000.00
2016-17	Workshops / Training / Seminars / Conferences	IPR Open house	IPR	10-Apr-2016 to 10-Apr-2016 (1 Days)	Within Campus	80	20	100	0.00	50000.00	50000.00
2016-17	Workshops / Training / Seminars / Conferences	IP awareness talk during Vilgro Orientation Program	IPR	29-Apr-2016 to 29-Apr-2016 (1 Days)	Within Campus	30	10	40	0.00	0.00	0.00
2016-17	Workshops / Training / Seminars / Conferences	IP workshop during SoCha Unconvention	IPR	26-Aug-2016 to 26-Aug-2016 (1 Days)	Within Campus	200	50	250	0.00	100000.00	100000.00
2016-17	Exhibitions of Innovative Products / E-Summits / Tech-Fests	IP awareness seminar during E-Summit 2016	IPR	11-Nov-2016 to 11-Nov-2016 (1 Days)	Within Campus	400	100	500	200000.00	200000.00	400000.00
2016-17	Workshops / Training / Seminars / Conferences	IP Awareness talk given by Shri. R Saha, Director PFC, New Delhi, India	IPR	25-Nov-2016 to 25-Nov-2016 (1 Days)	Within Campus	20	0	20	0.00	0.00	0.00

Awareness / Training / Programmes organized by the Institute

Total Annual Expenditure Incurred towards Organizing Awareness, Workshop, Seminars, Training programs etc. related to promote innovation, IPR and Entrepreneurship Development

2016-17	Workshops / Training / Seminars / Conferences	IP A Strategic Enabler for the Scientific and Research Community	IPR	12-Dec-2016 to 12-Dec-2016 (1 Days)	Within Campus	30	0	30	0.00	0.00	0.00
2017-18	Workshops / Training / Seminars / Conferences	Entrepreneurship and innovation in academic institution Challenges and opportunities	Entrepreneurship/ Startup	25-Feb-2017 to 26-Feb-2017 (2 Days)	Within Campus	50	50	100	0.00	70000.00	70000.00
2017-18	Workshops / Training / Seminars / Conferences	Promotion of Agricultural Innovations	IPR	17-Aug-2017 to 17-Aug-2017 (1 Days)	Outside Campus	20	80	100	0.00	50000.00	50000.00
2017-18	Workshops / Training / Seminars / Conferences	Protection and Efficient Management of Agricultural Innovations Through IPR Prospects	IPR	31-Aug-2017 to 31-Aug-2017 (1 Days)	Outside Campus	10	90	100	0.00	100000.00	100000.00
2017-18	Workshops / Training / Seminars / Conferences	Awareness of IPR Protection and Commercialization of Technologies	IPR	08-Sep-2017 to 08-Sep-2017 (1 Days)	Outside Campus	1	100	101	0.00	100000.00	100000.00
2017-18	Workshops / Training / Seminars / Conferences	Patent Capacity Building Programme	IPR	03-Feb-2018 to 03-Feb-2018 (1 Days)	Within Campus	80	20	100	0.00	87000.00	87000.00
2017-18	Workshops / Training / Seminars / Conferences	Importance of Intellectual Property in Innovation Management	IPR	16-Feb-2018 to 16-Feb-2018 (1 Days)	Within Campus	50	20	70	0.00	50000.00	50000.00
2017-18	Workshops / Training / Seminars / Conferences	Bootcamp for Bioentrepreneurs	Entrepreneurship/ Startup	23-Mar-2018 to 24-Mar-2018 (2 Days)	Within Campus	100	50	150	0.00	100000.00	100000.00

Institute's Participation in Events / Programmes organized by the External Agencies

Total Annual Expenditure Incurred towards Supporting Students and Faculties to Participate/Present in National and International Level Innovation and Start-up Events/Competitions/Hackathons etc.

Financial Year	Program Type	Program Theme	Name of Event	Organizing Agency / Institute Name	Level of Event	Type of Participants	Nos of Participants	Achievements (Awards/Recognitions/Prize, If any)	Expenditure Incurred		
									Institute Own / Internal Fund (in Rs.)	Sponsorship / External Fund	Total Expenditure Incurred
2015-16	Workshops / Training / Seminars / Conferences	IPR	Summer Undergraduate Research and Graduate Excellence (SURGE) program	L-17, IIT Kanpur	National	Both	200	NA	0.00	0.00	0.00

Institute's Participation in Events / Programmes organized by the External Agencies

Total Annual Expenditure Incurred towards Supporting Students and Faculties to Participate/Present in National and International Level Innovation and Start-up Events/Competitions/Hackathons etc.

2015-16	Workshops / Training / Seminars / Conferences	IPR	Summer Undergraduate Research and Graduate Excellence (SURGE) program	L-17, IIT Kanpur	National	Both	200	NA	0.00	0.00	0.00
2016-17	Workshops / Training / Seminars / Conferences	Entrepreneurship/S tartup	IP Awareness seminar during BIRAC Bio incubator facility inauguration	IME Building Seminar Hall, IIT Kanpur	National	Both	100	NA	0.00	50000.00	50000.00
2016-17	Workshops / Training / Seminars / Conferences	IPR	IP awareness talk during Villgro Orientation Program	SIIC Conference room, IIT Kanpur	National	Both	40	NA	0.00	0.00	0.00
2016-17	Workshops / Training / Seminars / Conferences	IPR	IPR Open house	SIIC, IIT Kanpur	National	Both	100	NA	0.00	50000.00	50000.00
2016-17	Workshops / Training / Seminars / Conferences	Entrepreneurship/S tartup	IP workshop during SoCha Unconvention	Motwani Auditorium	National	Both	250	NA	0.00	100000.00	100000.00
2016-17	Exhibitions of Innovative Products / E-Summits / Tech-Fests	Entrepreneurship/S tartup	IP awareness seminar during E-Summit 2016	Main Auditorium, IIT Kanpur	National	Both	500	NA	200000.00	200000.00	400000.00
2016-17	Workshops / Training / Seminars / Conferences	IPR	IP Awareness talk given by Shri. R Saha, Director PFC, New Delhi, India	SIIC Conference room, IIT Kanpur	National	Both	20	NA	0.00	0.00	0.00
2016-17	Workshops / Training / Seminars / Conferences	IPR	IP A Strategic Enabler for the Scientific and Research Community	SIIC Conference room, IIT Kanpur	National	Both	30	NA	0.00	0.00	0.00
2016-17	Workshops / Training / Seminars / Conferences	IPR	Summer Undergraduate Research and Graduate Excellence (SURGE) program	L-16, IIT Kanpur	National	Both	200	NA	0.00	0.00	0.00
2017-18	Workshops / Training / Seminars / Conferences	IPR	Promotion of Agricultural Innovations	Outside Campus, CSAUAT, Kanpur	National	Both	80	NA	0.00	50000.00	50000.00
2017-18	Workshops / Training / Seminars / Conferences	IPR	Protection and Efficient Management of Agricultural Innovations Through IPR Prospects	Outside Campus, BBAU, Lucknow	National	Both	100	NA	0.00	100000.00	100000.00
2017-18	Workshops / Training / Seminars / Conferences	IPR	Awareness of IPR Protection and Commercialization of Technologies	Outside Campus, SATI Auditorium, Vidisha, M.P.	National	Both	101	NA	0.00	100000.00	100000.00
2017-18	Workshops / Training / Seminars / Conferences	IPR	Patent Capacity Building Programme	Within Campus, Outreach Auditorium, IIT Kanpur	National	Both	100	NA	0.00	87000.00	87000.00

Institute's Participation in Events / Programmes organized by the External Agencies

Total Annual Expenditure Incurred towards Supporting Students and Faculties to Participate/Present in National and International Level Innovation and Start-up Events/Competitions/Hackathons etc.

2017-18	Workshops / Training / Seminars / Conferences	IPR	Importance of Intellectual Property in Innovation Management	IME Building Seminar Hall, IIT Kanpur	National	Both	70	NA	0.00	50000.00	50000.00
2017-18	Workshops / Training / Seminars / Conferences	Entrepreneurship/S tartup	Bootcamp for Bioentrepreneurs	Outreach Auditorium, IIT Kanpur	National	Both	150	NA	0.00	100000.00	100000.00
2017-18	Workshops / Training / Seminars / Conferences	Entrepreneurship/S tartup	Entrepreneurs hip and innovation in academic institution Challenges and opportunities	Outreach Auditorium, IIT Kanpur	National	Both	100	NA	0.00	700000.00	700000.00

Pre-Incubation and Incubation facilities exist in-campus

Total Annual Expenditure Incurred towards Creation of Pre-Incubation and Incubation Facilities in Campus

Financial Year	Name of Centre	Type of Facility	Year of Facility Creation	Facility Location / Address	Facility Incharge Name	Facility area in Sq Ft	Operational Cost of Centre (in Rs.) (Construction Cost is excluded)		
							Institute Own / Internal Fund (in Rs.)	Sponsorship / External Fund	Total Expenditure Incurred
2016-17	Promoting and Accelerating Young and Aspiring Innovators & Startups-NIDHI PRAYAS	Incubation	2017	4i lab, IIT Kanpur	Professor Amitabha Bandyopadhyay	3000	0.00	17000000.00	17000000.00
2017-18	BIONEST -2	Incubation	2017	IIT Kanpur	Professor J RamKumar	3500	0.00	8100000.00	8100000.00

Fund supported to convert ideas to Innovations & Start-ups

Total Annual Fund Supported towards Conversion of Ideas to Innovative Solutions and Start-ups at the Institute Level

Financial Year	Category	Name of Idea / Project / Innovation / Startup	Applicant Type	Academic Year of Study	Project Completion	Core Team Size (Nos)	Fund Supported				Current Status (as of 31st March 2018)
							Institution Own Seed Fund	Seed Grant from Funding Agency	Angel / Venture Capital Fund	Total Supported Amount	
2015-16	Idea to PoC / Prototype / Innovation	Design Development of Compact Low cost Paper Carry Bag Making Machine	Alumni		Successfully Completed	1	0.00	15000000.00	0.00	15000000.00	IP – Tech Transfer/Commercialization Phase
2015-16	Idea to PoC / Prototype / Innovation	Automated Perfect spherical Shape (Laddu) Making machine for eatable	Alumni		Successfully Completed	1	0.00	1750000.00	0.00	1750000.00	IP – Tech Transfer/Commercialization Phase
2015-16	Idea to PoC / Prototype / Innovation	Heat Pipe based Window Mounted Solar Water Heater for Domestic Apartment	Entrepreneurs External to Institute		Successfully Completed	1	0.00	700000.00	0.00	700000.00	IP – Tech Transfer/Commercialization Phase
2015-16	Idea to PoC / Prototype / Innovation	Convertible school bag	Alumni		Successfully Completed	1	0.00	700000.00	0.00	700000.00	Graduated Startup

Fund supported to convert ideas to Innovations & Start-ups

Total Annual Fund Supported towards Conversion of Ideas to Innovative Solutions and Start-ups at the Institute Level

2016-17	Idea to PoC / Prototype / Innovation	Real time monitoring of hydrological, geological and environmental Phenomena using the technology of Internet for efficient water resource management	Alumni		On Progress	1	0.00	7000000.00	0.00	7000000.00	Technology Development/Pre Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	Development of a multipurpose instrument for study of magneto electro chemical with custom software for data display recording analysis	Faculty		On Progress	1	0.00	9900000.00	0.00	9900000.00	Technology Development/Pre Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	Decentralized onsite domestic grey water recycling system	Entrepreneurs External to Institute		On Progress	1	0.00	10100000.00	0.00	10100000.00	Technology Development/Pre Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	Development of Cost Effective Portable Capillary Rheometer for Scientific and Industrial Research	Alumni		On Progress	1	0.00	9500000.00	0.00	9500000.00	Technology Development/Pre Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	Real-Time Soil Moisture monitoring instruments for assessing farm level water requirement	Alumni		Successfully Completed	1	0.00	10000000.00	0.00	10000000.00	IP – Tech Transfer/Commercialization Phase
2017-18	Idea to PoC / Prototype / Innovation	Design and Development of Areca Nut Type Identifier and Separator Machine	Alumni		On Progress	1	0.00	11000000.00	0.00	11000000.00	Startup under Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	Water less PV Solar plant Cleaning Robot	Alumni		Successfully Completed	1	0.00	12800000.00	0.00	12800000.00	IP – Tech Transfer/Commercialization Phase
2017-18	Idea to PoC / Prototype / Innovation	A novel system that can sample, identify and mitigate bioaerosols and PM in ambient air	Alumni		Successfully Completed	1	0.00	10100000.00	0.00	10100000.00	Technology Development/Pre Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	Electronic Flexible Endoscope	Alumni		On Progress	1	0.00	6500000.00	0.00	6500000.00	Technology Development/Pre Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	To reduce air pollution level by using indoor plants	Entrepreneurs External to Institute		Successfully Completed	1	0.00	3250000.00	0.00	3250000.00	Graduated Startup
2017-18	Idea to PoC / Prototype / Innovation	Native web Buddy	Entrepreneurs External to Institute		Successfully Completed	1	0.00	1500000.00	0.00	1500000.00	Graduated Startup

Fund supported to convert ideas to Innovations & Start-ups

Total Annual Fund Supported towards Conversion of Ideas to Innovative Solutions and Start-ups at the Institute Level

2017-18	Idea to PoC / Prototype / Innovation	Creating and exploring the dynamism of 3D technologies in various fields	Alumni		Successfully Completed	1	0.00	360000.00	0.00	360000.00	Graduated Startup
2017-18	Idea to PoC / Prototype / Innovation	Prepleaf	Faculty		Successfully Completed	1	0.00	150000.00	0.00	150000.00	IP – Tech Transfer/Commercialization Phase
2017-18	Idea to PoC / Prototype / Innovation	Campus haat	Alumni		Successfully Completed	1	0.00	360000.00	0.00	360000.00	Graduated Startup
2017-18	Idea to PoC / Prototype / Innovation	Provides demand driven online platform to farmers which enables farmers to sell their vegetables directly to different businesses like restaurants hotels stores vendors institutes etc.	Entrepreneurs External to Institute		On Progress	2	0.00	7500000.00	0.00	7500000.00	Startup under Incubation Phase
2017-18	Idea to PoC / Prototype / Innovation	Oxen offers innovative enabling technology solutions to farmers, the turban guys and everyone in between.	Alumni		On Progress	2	0.00	17500000.00	0.00	17500000.00	IP – Tech Transfer/Commercialization Phase
2017-18	Idea to PoC / Prototype / Innovation	Provides Cost and Energy saving Reverse Osmosis based water purifier by minimizing the waste-water generated	Entrepreneurs External to Institute		On Progress	2	0.00	30000000.00	0.00	30000000.00	IP – Tech Transfer/Commercialization Phase
2017-18	Idea to PoC / Prototype / Innovation	The Companys programs focus on core Life Skills and functional English to the affordable Private Schools APS segment	Entrepreneurs External to Institute		On Progress	2	0.00	8000000.00	0.00	8000000.00	IP – Tech Transfer/Commercialization Phase
2017-18	Idea to PoC / Prototype / Innovation	SkillMap provides level playing field opportunities for millions of job seekers in non-metro areas using technology by eliminating distance as the major issue in screening shortlisting right candidates We identify employable candidates using remote assessment on mobile and connect them to relevant companies	Alumni		On Progress	2	0.00	20000000.00	0.00	20000000.00	IP – Tech Transfer/Commercialization Phase

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

Financial Year	Title of Patent	Patent Application No	Inventors Type	Type of Patent Application Filed	Current Status (as of 31st March 2018)	Amount Spent towards Patent Filing (in Rs.)		
						Institution Own Fund	Sponsorship / Grant Fund	Total Amount Spent towards Patent Filing (in Rs.)
2015-16	A PRINTING BASED METHOD OF FABRICATING A METAL OXIDE THIN FILM AND ITS DEVICE COMPONENT THEREOF	1297/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Prevention of surface adsorption of calmidazolium chloride to inhibit huntingtin fragment aggregation linked to huntingtons disease	1182/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	A HYDROGEN METHANOL BASED LOW WORKING TEMPERATURE POLYMER ELECTROLYTE MEMBRANE FUEL CELL	1586/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Human hand detection from structure light based 3D Sensor	1678/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Rotational-Magnetoreological abrasive flow finishing (R-MRAFF) process for nano finishing of complex surfaces knee joint implant	1730/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Hierarchically Porous Polymer, Carbon, Silica and Composite Carbon	US-14/683070	Student and Faculty	International	Patent Granted	0.00	0.00	0.00
2015-16	Design of emission tomographic measurement set-up for plasma application	2292/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	FLUORESCENT MARKER FOR PROTEIN LABELING	2774/DEL/2015	Student and Faculty	National	Application under Examination	0.00	35000.00	35000.00
2015-16	AUTOMATIC MECHANICAL PRICKING MACHINE	2898/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	METHOD OF EXTRACTION FOR A NON-IONIC SURFACTANT ADSORBED ON BIODEGRADABLE POLYMERIC NANOPARTICLES	3003/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	System,method and device for diagnosis of cancer based on polarized fluorescence	3052/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2015-16	MICROVALVE FOR FLUIDIC APPLICATIONS	3565/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	A PORTABLE MICROFLUIDIC CHIP HOLDER	3643/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	A Biomolecule Micro-Patterning Method and Patterened Substrate Thereof	3696/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Peltify wearable device for Thermoregulation	277649	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2015-16	Design for disability A waist wearable for visually challenged for Indoor Navigation	277650	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2015-16	Business purpose Utility Vehicle-Vegetable Cart	277648	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2015-16	Business purpose Utility Vehicle-Ironing Cart	277651	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2015-16	Business purpose Utility Vehicle-Saloon	277652	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2015-16	Stabilized Material for Subgrade Pavement	3776/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	A ONE-POT PROCESS FOR THE SYNTHESIS OF INDOLE AND INDOLE DERIVATIVES	3880/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	A System for Particle Generator in PIV Applications	4130/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	High Endurance Quadrotor Helicopter	4184/DEL/2015	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	FLEXIBLE SUPERCAPACITORS UTILIZING ELECTROCHEMICALLY ACTIVE MATERIALS BASED NANOCOMPOSITE HYBRID ELECTRODES AND METHOD OF MANUFACTURING THEREOF	201611000089	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Temperature sensitive paint for the usage in green spectrum of light	201611001597	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	HIGH DYNAMIC RANGE (HDR) IMAGING SYSTEM AND METHOD THEREOF	201611001989	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	AN INTEGRATED SOLAR ENERGY HARVESTING AND STORAGE	201611002574	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2015-16	AN APPARATUS FOR SHADOW-MASK DEPOSITION AND METHOD THEREOF	201611002575	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	SEED SOWING BOOT FOR GRAIN AND OR GRANULAR FERTILIZER	201611002790	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	ARGININE DERIVATIVES AS POLYGLUTAMINE AGGREGATION INHIBITORS	201611003335	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Device for Power Control and storm protection for variable pitch Vertical Axis Wind Turbine(VAWT)	201611003599	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	A 3D INTEGRATED UNIVERSAL DIGITAL GATE	201611005433	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Door Latch with inbuilt locking system	280700	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2015-16	A METHOD OF FABRICATING HIGH-PERFORMANCE POLY (VINYLIDENEDIFLUORIDE-TRIFLUOROETHYLENE), P(VDF-TRFE) FILMS	201611005439	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	IMPROVED METHOD FOR EXTRACTION OF LIPOPOLYSACCHARIDE	201611004883	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Optimization of design and Characterization of Novel micro-pumping system with peristaltic motion	201611005750	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	A PROSTHETIC ASSEMBLY WITH DYNAMIC ANKLE JOINT	201611005583	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	APPARATUS AND METHOD FOR REAL TIME FOREGROUND EXTRACTION	201611006602	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	Project Umbrella	2325/2016-CO/L	Student and Faculty	National	Patent Granted	0.00	15000.00	15000.00
2015-16	Career Cards	1525/2016-Co/L	Student and Faculty	National	Patent Granted	0.00	15000.00	15000.00
2015-16	SYSTEM AND METHOD FOR ABSOLUTE MASS DETERMINATION	201611007427	Student and Faculty	National	Application under Examination	0.00	35000.00	35000.00
2015-16	Integrated Hybrid Bio-Artificial Liver Bioreactor Design and Thereof	201611007880	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2015-16	METHOD FOR MONITORING THE HEALTH OF ALUMINIUM ELECTROLYTIC CAPACITOR	201611008693	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2015-16	SOLAR HYBRID POLYMER ELECTROLYTE MEMBRANE FUEL CELL (PEMFC)	201611010631	Student and Faculty	National	Application under Examination	0.00	98000.00	98000.00
2016-17	METHOD AND SYSTEM FOR EXPANSION OF VISIBILITY RANGE OF AN IMAGE	201611011684	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Integrated Hybrid Bio-Artificial Liver Bioreactor Design and Thereof	UK16070617	Student and Faculty	International	Application Published	0.00	117460.00	117460.00
2016-17	A VTOL UNMANNED AERIAL VEHICLE	201611015384	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	TEA MAKER	283233	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2016-17	ANTI-COUNTERFEITING MARK WITH 3-D FEATURES	201611015765	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	MEDICAMENT AND DIAGNOSISFOR SPINK1 POSITIVE CANCER	201611016564	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A PROCESS OF FABRICATION OF OPTICAL LENSES	201611017355	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	PROCESS FOR PREPARATION OF SUPER HYDROPHOBIC COATING	201611020049	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	PROCESS FOR THE SYNTHESIS OF MONOLITHS AS FLOW-THROUGH MATERIAL OBTAINED VIA SOL-GEL METHOD	201611018954	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	AN IMPACTION BASED AIR SAMPLING APPARATUS WITH A ROTATORY OFF-CENTRIC NOZZLE AND A METHOD THEREOF	201611022179	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Automated Interactive multi-parameter recorder and water sampler	201611019268	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Electric Mono Wheel Cycle (Z0-e)	284940	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2016-17	MULTICOLOR INTERCHANGABLE FLAPS AND CONVERTIBLE FORM OF BAG	201611023368	Student and Faculty	National	Application Published	0.00	92000.00	92000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2016-17	Nano Polishing of Tubes Using Magnetorheological Fluid	201611025761	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Integrated Hybrid Bio-Artificial Liver Bioreactor Design and Thereof	US15224055	Student and Faculty	International	Application Published	0.00	170071.00	170071.00
2016-17	AN EFFICIENT WRITING TOOL FOR VISUALLY IMPAIRED	201611026411	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	SILVER NANOPARTICLES IMPREGNATED NANOPOROUS CARBON NANOFIBER PLATFORM FOR BIOSENSOR APPLICATION	201611026698	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Integrated system of transportation and storage of mammalian cells using cryotropic polymeric matrix and thereof	201611021878	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A METHOD OF FABRICATING HIGH-PERFORMANCE POLY(VINYLDENEDIFLUORIDE-TRIFLUOROETHYLENE), P(VDF-TRFE) FILMS	US15198703	Student and Faculty	International	Application Published	0.00	289460.00	289460.00
2016-17	A METHOD FOR MONITORING OF BOND WIRE DEGRADATION IN INSULATED GATE BIPOLAR TRANSISTOR	201611029236	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	CONDITION MONITORING SETUP FOR LONG TERM RELIABILITY IN FAULT RECOGNITION	201611029228	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	ENHANCED ELECTROCHEMICAL PERFORMANCE OF WASTE TYRE RECYCLED ACTIVATED CARBON AS AN ANODE IN LI-ION BATTERY	201611031120	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A THIN FILM TRANSISTOR WITH HIGH DRAIN CURRENT INDUCED BY A TRAP-ASSISTED ELECTRIC DOUBLE LAYER	201611031394	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A WEARABLE DEVICE FOR MAINTAINING BODY TEMPERATURE	201611031350	Student and Faculty	National	Application Published	0.00	92000.00	92000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2016-17	HIGH PERFORMANCE THERMOELECTRIC MATERIAL WITH HIGH ELECTRICAL CONDUCTIVITY AND POWER FACTOR AND METHOD OF MANUFACTURING THE SAME	201611031952	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	HYBRID CONTROLLED ARRANGEMENT TO ACHIEVE LINEAR ELECTRICAL TO ACOUSTIC CONVERSION AND METHOD THEREOF	201611032621	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A SINGLE-PHASE GRID CONNECTED TRANSFORMERLESS PHOTOVOLTAIC INVERTER	201611036171	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	SCHOOL BAG CONVERTIBLE TO STUDY TABLE	287945	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2016-17	MICRO-RNA AND METHODS TO IMPROVE AAV GENE EXPRESSION AND VECTOR PRODUCTION	201611036719	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	SAMARITAN (Phototherapy Unit)	287986	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2016-17	A FOLDABLE WING DESIGN OF AN IMPROVED FLAPPING WING AERIAL VEHICLE	201611038098	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Antioxidant and Antibacterial Property of HA CeO2 Ag Composite for Bone Tissue Implant	201611038479	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Breathalyzer for disease detection	201611039541	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Gas sensors	201611039574	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	TRENCH-ASSISTED FIBER FOR FTTH APPLICATIONS	201611040999	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A Fabrication method of Biometric Bi-Convex Optical Lenses	201611043743	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Bicycle for carrying Food Articles	289821	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2016-17	Milkman Bicycle	289822	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2016-17	Bicycle for Vegetable Transport	289823	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2016-17	PARAMETRIC ANISOTROPIC BRDF FOR 3D SURFACE RECONSTRUCTION AND MICRO TEXTURE EVALUATION	201711001182	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A METHOD FOR FABRICATING MICROLENS ARRAY OF SU-8 PHOTORESIST AND MICROLENS ARRAY THEREOF	201711001428	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	CNT Coated carbon fiber loaded RResonant Planar Sensor for Detection of Hazardous Gases in Environment	201711000102	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	FULLERENE NANOPARTICLES AND COMPOSITIONS THEREOF FOR INHIBITING AUTOPHAGY	201711004577	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A PROCESS FOR MANUFACTURING HORSESHOES	201711004727	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A TWO-STEP METHOD, FOR PREPARATION OF MICRON SIZED, NANO-POROUS POWDER PARTICLES	201711004877	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	METHOD OF FABRICATION BASED ON CONTROLLED MICROSTRUCTURE WITH REFINED AND COARSE GRAINS	201711004918	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	Iron Based Amorphous Alloys Using High-Phosphorous Blast Furnace Grade Hot Metal	201731008474	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	SELF-ASSEMBLING HYDROPHOBIC ENCAPSULATING LAYER FOR PEROVSKITES FOR ENHANCING WATER AND FOR ENHANCING WATER AND MOISTURE STABILITY	201711008737	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	A Solar Energy Harvester System	201711008821	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2016-17	AIR SAMPLER	291998	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2016-17	AIR SAMPLER	291999	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2016-17	SENSOR FOR BLACK CARBON DETERMINATION OF AIR SAMPLER	292000	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2016-17	A super hydrophobic coating composition and coating methods	201711009532	Student and Faculty	National	Application Published	0.00	9000.00	9000.00
2017-18	Novel PDMS Nanoparticles for Ligand free intra-nuclear delivery to cancer cells	201711012363	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Drinking Straw	201711012717	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	LOW-RATE SPEECH CODING BASED ON COMPLEX AM AND FM SIGNAL MODELS	201711012795	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	IRILLA (Lamp)	292052	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2017-18	COAXIAL ROTOR SYSTEM WITH ASYMMETRIC ROTOR ARRANGEMENT AND METHOD THEREOF	201711013049	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	REUSABLE POLYMERIC WRITING SURFACE OR MEDIA AND PROCESSES THEREOF	201711015292	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	WASTE SEPARATION SYSTEM	201711016229	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	ANGULAR MOMENTUM DEVICE FOR STABILIZATION AND CONTROL FOR TAILLESS AIRCRAFT	201711017649	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	TORCHCHUCKS, A NEW TYPE OF NUNCHUCKS DESIGNED WITH TWO INBUILT TORCH	293892	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2017-18	Hand Lamp	293893	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2017-18	IRON OXIDE NANOPARTICLES AND METHOD OF ITS PRODUCTION	201711016919	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	PROCESS FOR THE SYNTHESIS OF QUINOXALINES	201711016754	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	METHOD OF PRODUCING MULTI-LAYERED STEEL WITH VARIABLE COMPOSITIONS	201711017031	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	A WORKPIECE HOLDING DEVICE	201711018637	Student and Faculty	National	Application under Examination	0.00	35000.00	35000.00
2017-18	Trademark IITK Logo	3555541	Student and Faculty	National	Patent Granted	0.00	135000.00	135000.00
2017-18	Aligno a multi layered Physical Map	90092017	Student and Faculty	National	Patent Granted	0.00	15000.00	15000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2017-18	2 Shades A Collaborative Cooperative board game	88272017	Student and Faculty	National	Patent Granted	0.00	15000.00	15000.00
2017-18	METHOD OF DETECTING ADENO ASSOCIATED VIRUS (AAV) SEQUENCES	201711020338	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Quadrotor Convertiplane Air Vehicle	201711020832	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	KATHA	96212017	Student and Faculty	National	Patent Granted	0.00	15000.00	15000.00
2017-18	POLYDIMETHYLSILOXANE (PDMS) NANOSTRUCTURES AND PROCESS OF SYNTHESIS THEREOF	201711021885	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	UNMANNED AERIAL VEHICLE SYSTEM HAVING VERTICAL TAKEOFF VERTICAL LANDING AND HOVERING FLIGHT CAPABILITIES	201711021886	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	BIODEGRADABLE SUBSTRATES FOR FLEXIBLE ELECTRONICS AND MANUFACTURING METHOD	201711028088	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	A SMARTPHONE BASED MICROSCOPE	201711028373	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Metamaterial Inspired Planar RF Sensor for Simultaneous Measurement of Permittivity and Permeability of Magneto-Dielectric Samples and Method Thereof	201711028351	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	High Phosphorus Pig Iron as Sacrificial Anode for Cathodic Protection of Underground Mild Steel Structures	201731029652	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	A PORTABLE UNMANNED AERIAL VEHICLE AND METHOD THEREOF	201711029820	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	PORTABLE BEVERAGE DISPENSER	201711032866	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Digitally Enabled Compact Table-Top Microscope	201711034629	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	A DEVICE FOR MEASURING THE AMOUNT OF FUEL INTRODUCED INTO A VEHICLE	201711034630	Student and Faculty	National	Application Published	0.00	92000.00	92000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2017-18	C1 C2 distractor and reducer	201711035521	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	A METHOD FOR TRANSFORMING THE WETTABILITY OF A SURFACE	201711036788	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	PORTABLE CHARGER FOR ELECTRONIC DEVICES	201711038757	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	OXYGEN RELEASING ANTIOXIDANT SCAFFOLD FOR TISSUE ENGINEERING	201711040202	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Enhanced piezoelectric and ferroelectric performance of lead-free organic polymer by UV-assisted processing	201713040466	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	ELASTOMERIC BIODEGRADABLE ANTIOXIDANT POLYMER AND POLYMERIC FILM AS CARDIAC TISSUE PATCH AND THEREOF	201711041706	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	METHOD FOR FABRICATING MICRO STRUCTURES	201711042059	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	SPHERICAL TRI-LEAFLET HEART VALVE	201711043075	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	A PACKING CASE FOR ONE OR MORE LARGE-CALIBER AMMUNITION SHELLS	201711043201	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	SMART STICK	201711043515	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	SrTiO ₃ Nb Based Nanocomposites with Graphene Oxides and Process of Preparation Thereof	201711044640	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Pond Ash-Kaolinite based Geopolymer Brick and Process for Manufacturing the same	201711045206	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Method of Fabricating Microporous Elastomer Thin Films with Controllable Surface Pore Morphology and Monomodal Pore Size Distributions	201811000964	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Development of agar based bioplastics by cross-linking with diisocyanates	201811002306	Student and Faculty	National	Application Published	0.00	92000.00	92000.00

Intellectual Properties Filed

Total Annual Expenditure Spent towards Patent filing of Innovative Technologies with Institute having Ownership

2017-18	RANDOM BIT GENERATION SYSTEM USING OPTICAL CHAOS IN SYMMETRIC ERBIUM-DOPED FIBER LASERS AND METHOD THEREOF	201811004054	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Ergonomic Retractable Novel Stair (Open view)	301960	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2017-18	Ergonomic Retractable Novel Stair (Closed view)	301961	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00
2017-18	A SIMPLE AND COST-EFFECTIVE PROTEIN PURIFICATION SYSTEM AND METHOD THEREOF	201811006361	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Process for Preparing Zn Nano-Rod Flowerets Supported by Ni Substrate And Free-Standing Pure Zn Nanorods	201811008439	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	A Patient Transfer System	201811009157	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	System, Method and Device for Responsive Advancement of Mandible	201811009344	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	A Sample Extraction Device and Operator Thereof	201811009657	Student and Faculty	National	Application Published	0.00	92000.00	92000.00
2017-18	Hand Exoskeleton for Assisting Stroke Patients in Full Extension Exercise of Three Fingers and Grasping Ball-Squeezing Exercising	304112	Student and Faculty	National	Patent Granted	0.00	22000.00	22000.00

Innovations Commercialized and IP Licensed

Total Annual Expenditure Incurred and Revenue Generated from IP Commercialization and Licensing at Institute Level (Excluding Consultancy and Testing Services)

Financial Year	Name of the Innovative Technology Commercialized/Transferred	Patent No	Type of Patent	Year of Patent Issued	Conversion of Patent / Innovative Technologies to Commercialization		Total Amount Spent towards Patent Maintenance & Commercialization Expenses (in Rs.) (As of 31st March 2018)		Total Revenue Amount from Commercialization of Technologies (General Consultancy and Testing Services Fee Excluded)	
					Mode of Commercialization	Licensing to Industry	Institute Own/Internal Fund (in Rs.)	150000.00	Institute Own/Internal Fund (in Rs.)	150000.00
2015-16	Air Sampling Device	1474DEL2014	National	2016	Name of Agency / Org / Industry / Start-up Adopted Technology	Envirotech Instruments Pvt. Ltd.	Sponsorship / Grant Fund	0.00	Sponsorship / Grant Fund	0.00
							Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	150000.00	Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	150000.00

Innovations Commercialized and IP Licensed

Total Annual Expenditure Incurred and Revenue Generated from IP Commercialization and Licensing at Institute Level (Excluding Consultancy and Testing Services)

2015-16	Briter Cell Line	NA	International	2015	Mode of Commercialization	Licensing to Industry	Institute Own/Internal Fund (in Rs.)	200000.00	Institute Own/Internal Fund (in Rs.)	200000.00
					Name of Agency / Org / Industry / Start-up Adopted Technology	Kerafast company, USA	Sponsorship / Grant Fund	0.00	Sponsorship / Grant Fund	0.00
							Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	200000.00	Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	200000.00
2015-16	Weak Supervision for person identification and robust learning in the presence of Noise	NA	National	2015	Mode of Commercialization	Licensing to Industry	Institute Own/Internal Fund (in Rs.)	200000.00	Institute Own/Internal Fund (in Rs.)	200000.00
					Name of Agency / Org / Industry / Start-up Adopted Technology	Visage Map	Sponsorship / Grant Fund	0.00	Sponsorship / Grant Fund	0.00
							Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	200000.00	Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	200000.00
2017-18	Anti-Counterfeiting Mark with 3d Features	201611015765	National	2017	Mode of Commercialization	Licensing to Industry	Institute Own/Internal Fund (in Rs.)	315000.00	Institute Own/Internal Fund (in Rs.)	315000.00
					Name of Agency / Org / Industry / Start-up Adopted Technology	Transpacks Technologies Private Ltd.	Sponsorship / Grant Fund	0.00	Sponsorship / Grant Fund	0.00
							Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	315000.00	Total Amount Spent towards Patent Maintenance and Commercialization Expenses (in Rs.) as of 31st March 2018	315000.00

Grant / Fund Generated / Received by Institute to support Innovation & Start-up

Total Annual Grant / Fund Generated / Received / Mobilized from Govt., Non Govt. and Private Agencies towards Creation of Pre-Incubation and Incubation Infrastructure and Facilities in Campus

Financial Year of Fund Generated	Grant Agency Type	Grant Agency Name	Total Grant Period (in Years)	Total Grant Allocated Amount (in Rs.)	Total Grant Received Amount (in Rs.) (as of 31st March 2018)	Purpose of Grant Utilization (Multiple options can be selected)	Purpose of Grant Utilization (Other)
2016-17	Government	NSTEDB via SINE IIT Bombay	5	17000000.00	16000000.00	Other	NIDHI PRAYAS scheme is primarily to promote prototype development by individual innovators and build pipeline of potential entrepreneurs.
2016-17	Government	MHRD	3	70000000.00	0.00	Other	This is for corporate entities to setup their research labs in the campus of IITK for promotion of industry-academia interaction

Grant / Fund Generated / Received by Institute to support Innovation & Start-up

Total Annual Grant / Fund Generated / Received / Mobilized from Govt., Non Govt. and Private Agencies towards Creation of Pre-Incubation and Incubation Infrastructure and Facilities in Campus

2016-17	Government	DFID and TDB via Villgro Innovation foundation	4	121600000.00	32000000.00	Other	Current proposal is for Refurbishment and expansion and Personnel and Seed fund and Mentoring or Capacity building or Training and Promotion
2016-17	Government	NSTDEB via Venture Centre Pune	2	3960000.00	3960000.00	Other	Current proposal is for Refurbishment and expansion and Personnel and Seed fund and Mentoring and Capacity building and Training and Promotion
2017-18	Government	BIRAC	2	10000000.00	5000000.00	Seed Fund / Investment Support to Innovation/Startups, Other	Exclusively for Biotech Medtech companies. Only SEED fund grant
2017-18	Government	BIRAC	2	10000000.00	4000000.00	Other	Current proposal is for Refurbishment and expansion and Personnel and Seed fund Mentoring Capacity building Training and Promotion
2017-18	Government	NSTDEB	10	105000000.00	0.00	Other	Only, in-principle sanction has been received. However, no funds have been disbursed. Only SEED fund grant and its management.

Venture Fund / Investment mobilized to support Innovation & Start-up

Total Angel/Venture Fund Mobilized Annually towards Investment Commitment/Support Innovators/Start-ups incubated at Institute

Financial Year	Investor Type	Amount Committed / Lined Up (in Rs.)	Total Number of Successful Investments in Ideas / Innovation / Start-ups	Total Amount Invested
2016-17	Financial Institution / Debt Fund	11300000.00	1	11300000.00
2017-18	Financial Institution / Debt Fund	41000000.00	4	41000000.00
2017-18	Angel Investment Fund	33400000.00	2	33400000.00
2017-18	Financial Institution / Debt Fund	162900000.00	4	162900000.00

Revenue Generated from Incubation Services offered by the Institute

Total Revenue Generated Annually from the Incubation Services offered and Equity/Share hold in Incubatees/Spinoffs

Financial Year of Revenue Generated	Name of the Startup	Startup lead by	Current Phase of Startup	Revenue Generated from Incubation			
				From Rental / Advisory / Training Services (in Rs.)	Equity / Share Percentage (%) in Startup	From Equity/Share held in Startup (in Rs.)	Total Revenue Generated (in Rs.)
2015-16	Kaleidoscope Control Robotics and Automation Pvt. Ltd.	Staff	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Arnum Technologies Pvt. Ltd.	Alumni	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Objectify Technologies Pvt. Ltd.	Team from Outside of the Institution	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	GT Silicon Pvt. Ltd.	Alumni	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Aarav Unmanned Systems Pvt. Ltd.	Alumni	Graduated from Incubation	3022165.00	3	10.00	3022175.00

Revenue Generated from Incubation Services offered by the Institute

Total Revenue Generated Annually from the Incubation Services offered and Equity/Share hold in Incubatees/Spinoffs

2015-16	Priority Softech Pvt. Ltd.	Faculty	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Adwik Mobility Solutions Private Limited	Faculty	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Srashta Automation Labs Pvt. Ltd.	Alumni	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Aniketana Ecosystem Pvt Ltd	Alumni	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	GenPro Therapeutix Pvt Ltd	Faculty	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Ortho Regenics Pvt Ltd	Faculty	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Cenogen Materials Pvt. Ltd.	Alumni	Receiving Incubation	3022165.00	3	10.00	3022175.00
2015-16	APCEGEN Technologies Pvt. Ltd.	Team from Outside of the Institution	Receiving Incubation	3022165.00	3	10.00	3022175.00
2015-16	Orane Infosystems Pvt. Ltd.	Alumni	Receiving Incubation	3022165.00	3	10.00	3022175.00
2015-16	E-Spin Nanotech Pvt. Ltd.	Alumni	Graduated from Incubation	3022165.00	3	10.00	3022175.00
2015-16	Taral Engineering Solutions Pvt. Ltd.	Team from Outside of the Institution	Graduated from Incubation	3021165.00	3	10.00	3021175.00
2015-16	Promorph Solutions Pvt.Ltd.	Alumni	Receiving Incubation	3022165.00	3	10.00	3022175.00
2015-16	Kanopy Techno Solutions Pvt. Ltd.	Alumni	Receiving Incubation	3022165.00	3	10.00	3022175.00
2015-16	Prosoc Innovators P. Ltd.	Alumni	Receiving Incubation	3022165.00	3	10.00	3022175.00
2015-16	NURBS 3D Solutions Pvt. Ltd.	Alumni	Receiving Incubation	3022165.00	3	10.00	3022175.00
2016-17	Innosium Technologies Pvt. Ltd.	Alumni	Graduated from Incubation	2299003.00	3	10.00	2299013.00
2016-17	Trident Analytical Solutions Pvt. Ltd.	Team from Outside of the Institution	Graduated from Incubation	2299003.00	3	10.00	2299013.00
2016-17	Objectify Technologies Pvt. Ltd.	Team from Outside of the Institution	Graduated from Incubation	2299003.00	3	10.00	2299013.00
2016-17	GT Silicon Pvt. Ltd.	Alumni	Graduated from Incubation	2299003.00	3	10.00	2299013.00
2016-17	Aarav Unmanned Systems Pvt. Ltd.	Alumni	Graduated from Incubation	2299003.00	3	10.00	2299013.00
2016-17	Adwik Mobility Solutions Private Limited	Faculty	Graduated from Incubation	2299003.00	3	10.00	2299013.00
2016-17	BINVENTOR Labs Pvt. Ltd.	Alumni	Receiving Incubation	2299003.00	3	10.00	2299013.00
2016-17	Kritsnam Technologies Pvt Ltd	Alumni	Receiving Incubation	2299003.00	3	10.00	2299013.00
2016-17	Naturesense Technologies Pvt Ltd	Alumni	Receiving Incubation	2299003.00	3	10.00	2299013.00
2017-18	Cenogen Materials Pvt. Ltd.	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	APCEGEN Technologies Pvt. Ltd.	Team from Outside of the Institution	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Orane Infosystems Pvt. Ltd.	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	E-Spin Nanotech Pvt. Ltd.	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Taral Engineering Solutions Pvt. Ltd.	Team from Outside of the Institution	Receiving Incubation	3083314.95	3	10.00	3083324.95

Revenue Generated from Incubation Services offered by the Institute

Total Revenue Generated Annually from the Incubation Services offered and Equity/Share hold in Incubatees/Spinoffs

2017-18	Promorph Solutions Pvt.Ltd.	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Kanopy Techno Solutions Pvt. Ltd.	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Prosoc Innovators P. Ltd.	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	NURBS 3D Solutions Pvt. Ltd.	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	BINVENTOR Labs Pvt. Ltd.	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Kritsnam Technologies Pvt Ltd	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Naturesense Technologies Pvt Ltd	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Nocca Robotics Private Limited	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Campus Haat Solutions private limited	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Help us green- Kanpur Flowercycling Private Limited	Team from Outside of the Institution	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Greengine Environmental Technology Private Limited	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Adhita Biosciences Private Limited	Team from Outside of the Institution	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Airshed Planning Professionals	Alumni	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Arogyam Medisoft Solution Private Limited	Team from Outside of the Institution	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Mcgeeks Mechatronics Private Limited	Team from Outside of the Institution	Receiving Incubation	3083314.95	3	10.00	3083324.95
2017-18	Innosium Technologies Pvt. Ltd.	Alumni	Graduated from Incubation	3083314.95	3	10.00	3083324.95
2017-18	Trident Analytical Solutions Pvt. Ltd.	Team from Outside of the Institution	Graduated from Incubation	3083314.95	3	10.00	3083324.95

Infrastructures & Facilities to Support Innovations and Start-ups

Advanced Infrastructure

Advanced Lab Infrastructure/Facilities available to Support Innovation and Start-Up

Yes

If Yes, Type of Lab Infrastructures / Facilities Available (Multiple Options can be Selected)

Design Centre, Maker Space, Fabrication Lab, Bio-Design Centre, Arts/Craft/Fashion

List Maximum Five Advanced Labs Infrastructures Available in your Campus

Infrastructures & Facilities to Support Innovations and Start-ups
Advanced Infrastructure

Name of the Centre	Sector Focus of Centre (Separate Multiple Sectors with Comma ",")	Name of the Centre In charge	Email of the Centre In charge
SIDBI Innovation and Incubation Centre	Innovation and Incubation	Amitabha Bandyopadhyay	abandopa@iitk.ac.in
BIONEST -2	Incubation	Prof J. Ramkumar	jr Kumar@iitk.ac.in

Pre Incubation Centre Available in your Campus

Pre-Incubation Centre			
Yes			
Type of Centre (Multiple options can be selected)			
Innovation Cell/Startup Cells, Student Innovation and Entrepreneurship Clubs, Tinkering Labs			
List Maximum Five Pre-Incubation Centre Available in your Campus			
Name of the Centre	Sector Focus of Centre (Separate Multiple Sectors with Comma ",")	Name of the Centre In charge	Email of the Centre In charge
Imagineering laboratory	Tinkering	Prof J. Ramkumar	jr Kumar@iitk.ac.in

Incubation Unit/Acceleration Centre/ Research Park / STEP

Incubation Unit/Acceleration Centre/ Research Park / STEP Available in your Campus			
Yes			
Type of Centre (Multiple options can be selected)			
Incubation Centre, Research Park, STEP			
List Maximum Five Pre-Incubation Centre Available in your Campus			
Name of the Centre	Sector Focus of Centre (Separate Multiple Sectors with Comma ",")	Name of the Centre In charge	Email of the Centre In charge
SIDBI Innovation and Incubation Centre	Innovation and Incubation	Amitabha Bandyopadhyay	abandopa@iitk.ac.in
Research Park	Park	Avinash Kumar Agarwal	akag@iitk.ac.in

Student Projects recognized at National / International Level

No of Innovative Student Projects Recognized Nationally/Internationally with Prestigious renowned Agencies/Awards

Not Applicable!

Innovations to Startups

No of Successful Conversion of Innovations initiated by Students/Alumni/Faculties converted to Enterprise/Start-ups made at Institute

Financial Year	Innovation / Start-Up Name	Founded by	Name of the Co-Founders (Multiple Names can be mentioned with Commas)	Received Incubation	Name of Incubator	Period of Incubation Received (in Years)	Startup with Corporate Identification Number (CIN) Registration	Corporate Identification Number (CIN) No.	Current Startup Status	Startup Grown to an annual turnover of Rs. 50 Lakhs (or) 10 employees for a period of 2 years
2015-16	PROMORPH SOLUTIONS PRIVATE LIMITED	Alumni	RANJNA PRASAD	Yes	SIIC	3	Yes	U72200JH2015PTC002735	Receiving Incubation	Yes
2015-16	KANOPLY TECHNO SOLUTIONS PRIVATE LIMITED	Alumni	JOY BHATTACHARJEE	Yes	SIIC	3	Yes	U74120UP2014PTC067368	Graduated	Yes
2015-16	PROSOC INNOVATORS PRIVATE LIMITED	Alumni	RAHUL SWARUP SHREESHAN SADASHIVAN ALIND SAHAY	Yes	SIIC	2	Yes	U72300UP2015PTC073642	Graduated	Yes
2015-16	DATPIXEL 3D SOLUTIONS PRIVATE LIMITED	Alumni	LALTESH GANGWAL	Yes	SIIC	1	Yes	U72900UR2015PTC001662	Graduated	No
2016-17	BINVENTOR LABS PRIVATE LIMITED	Alumni	ARPIT TEWARI	Yes	SIIC	2	Yes	U72300UP2015PTC068494	Receiving Incubation	No
2016-17	KRITSNAM TECHNOLOGIES PRIVATE LIMITED Pvt Ltd	Alumni	SHIVAM SHARMA ANAGANI PRUDHVI SAGAR	Yes	SIIC	2	Yes	U72200JH2015PTC003261	Receiving Incubation	Yes
2016-17	NATURESENSE TECHNOLOGIES PRIVATE LIMITED	Alumni	ANUJ SINGH CHAUHAN	Yes	SIIC	1	Yes	U74999UP2016PTC083135	Receiving Incubation	Yes
2016-17	GITITECH PRIVATE LIMITED	Alumni	ANINDYA CHATTERJEE ANIMANGSU GHATAK	Yes	SIIC	0	Yes	U74120UP2015PTC068458	Receiving Incubation	No
2017-18	Oxen Farm Solutions Private Limited	Alumni	RUSHIKA SAKSENA	Yes	SIIC	1	Yes	U52100PN2016PTC158255	Receiving Incubation	Yes
2017-18	Nocca Robotics Private Limited	Alumni	Mr AMAN ANAND ARYA, HARSHIT RATHORE AMAR SAMIR KOTHARI	Yes	SIIC	1	Yes	U29305MH2017PTC294196	Receiving Incubation	Yes
2017-18	Sirimiri good sight private limited	Alumni	SHWETA PANDEY	Yes	SIIC	1	Yes	U74999UP2018PTC099876	Receiving Incubation	Yes
2017-18	Campus Haat Solutions private limited	Alumni	GUDDU KUMAR	Yes	SIIC	1	Yes	U74999UP2017PTC099616	Receiving Incubation	Yes
2017-18	Greengine Environmental Technology Private Limited	Alumni	SUBHASH KUMAR SHRIVASTAVA	Yes	SIIC	1	Yes	U74120UP2015PTC071157	Receiving Incubation	Yes
2017-18	AIRSHED PLANNING PROFESSIONALS PRIVATE LIMITED	Alumni	MOHIT GOYAL	Yes	SIIC	1	Yes	U72900UP2017PTC098092	Receiving Incubation	No
2017-18	CDSPACE ROBOTICS PRIVATE LIMITED	Alumni	Krishnraj Singh Gaur	Yes	SIIC	0	Yes	U72900MH2018PTC309848	Receiving Incubation	No

Innovations to Startups

No of Successful Conversion of Innovations initiated by Students/Alumni/Faculties converted to Enterprise/Start-ups made at Institute

2017-18	Offgrid Energy Labs Private Limited	Alumni	RISHI KANT SRIVASTAVA BRINDAN TULACHAN	Yes	SIIC	1	Yes	U29309DL2018PTC328666	Receiving Incubation	No
2017-18	EARTHFACE ANNALYTICS PRIVATE LIMITED	Faculty	KARUMANCHI SRI HARSHA	Yes	SIIC	0	Yes	U29100UP2018PTC109857	Receiving Incubation	No
2017-18	OFFCAMPUSTEST TECHNOLOGIES PRIVATE LIMITED	Entrepreneurs Extern	MANJU GOUR	Yes	SIIC	0	Yes	U72900RJ2018PTC060391	Receiving Incubation	No

Co-Incubation Partnership

Co-incubation Partnership made with other Institutions either to offer incubation support (or) to receive incubation support

Financial Year	Type of Partnership	Partnership Institute Name	Type of Support Offered (Multiple Options can be Selected)	No. of Student Projects/ Ideas / Innovation / Startups Supported
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Courses on Innovation, IPR and Entrepreneurship Development

Short Term Certificate Courses, Regular Academic Programs and Courses offered at Institute on Innovation, IPR and Entrepreneurship Development for Students, Faculties and Start-ups

Academic Year	Title of Course	Subject Focus of Course	Type of Course	Mode of Delivery	Duration of Course / Subject (Minimum 30 Contact Hours)	Total Enrollment for the Course	Total Nos. Completed the Course
2015-16	Summer Undergraduate Research and Graduate Excellence (SURGE) program	IPR	Short Term Certificate Course	Classroom	45	100	100
2016-17	Summer Undergraduate Research and Graduate Excellence (SURGE) program	IPR	Short Term Certificate Course	Classroom	45	100	100
2017-18	Patent Capacity Building Programme	IPR	Short Term Certificate Course	Classroom	30	100	100

Faculty with Entrepreneurial Experience

Regular Faculties Engaged in Teaching with Experience in Innovation Design, IPR, Business Modelling, Entrepreneurship Development, Start-up, etc.

Academic Year	Faculty Name	Department	Years of Experience in Start-up / Entrepreneurship	Area of Expertise (Multiple Options can be Selected)	Level of Involvements as	Is Faculty, a Founder/Director of any Start-up	Name of the Start-up (Multiple Startups can be mentioned with Comma)	Director Identification Number (DIN)
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Innovation in Governance

Best Innovative Solutions Developed In-house for Improving Governance of Your Institution

Not Applicable!

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