



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: Sikkim Manipal Institute of Technology (SMIT) [ARI-C-8627]

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 Rupees)	Sponsorship / External Fund	Total Expenditure Incurred
2015-16	Workshops / Training / Seminars / Conferences	SOFTWARE DEVELOPER SKILL BASED COURSE	Innovation	01-Oct-2015 to 31-Oct-2015 (31 Days)	Within Campus	70	20	90	45000.00	0.00	45000.00
2016-17	Exhibitions of Innovative Products / E-Summits / Tech-Fests	Home Automation and Security Systems	Innovation	14-Apr-2016 to 13-Dec-2016 (244 Days)	Within Campus	5	0	5	0.00	30000.00	30000.00
2017-18	Exhibitions of Innovative Products / E-Summits / Tech-Fests	Entrepreneurs Meet	Entrepreneurship/Startup	02-Apr-2017 to 04-Apr-2017 (3 Days)	Within Campus	350	100	450	150000.00	650000.00	800000.00
2017-18	Hackathons/Competition/Boot-Camp/Exchange Programs	Automatic transmission in bicycle with artificial intelligence	Entrepreneurship/Startup	02-Apr-2017 to 04-Apr-2017 (3 Days)	Within Campus	3	0	3	50000.00	0.00	50000.00
2017-18	Workshops / Training / Seminars / Conferences	NORTH EAST WORKSHOP ON SQC AND SIX SIGMA PRACTICES	Entrepreneurship/Startup	21-Nov-2017 to 23-Nov-2017 (3 Days)	Within Campus	43	16	59	0.00	150000.00	150000.00

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 Rupees)	Sponsorship / External Fund	Total Expenditure Incurred
2015-16	Hackathons/Competition/Boot-Camp/Exchange Programs	Entrepreneurship/Startup	BranD Springfest	IIT Kharagpur	National	Student	5	Fourth Rank	25000.00	0.00	25000.00

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.

2016-17	Exhibitions of Innovative Products / E-Summits / Tech-Fests	Entrepreneurship/S tartup	GES 2017	IIT Kharagpur	International	Both	3	NIL	40000.00	0.00	40000.00
2017-18	Workshops / Training / Seminars / Conferences	Entrepreneurship/S tartup	ToT EDP	IIE Guwahati	National	Faculty	2	None	50000.00	0.00	50000.00

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 Rupees) (Construction Cost is excluded)		
							Institute Own / Internal Fund (in Rupees)	Sponsorship / External Fund	Total Operational Cost of Centre
2015-16	Innovation Studio	Pre-Incubation	2015	C 202 SMIT	Prof C T Singh	430	150000.00	0.00	150000.00
2016-17	Supercomputing Lab	Pre-Incubation	2016	C203	Prof C T Singh	180	250000.00	0.00	250000.00
2017-18	Incubation Centre	Incubation	2017	C 201 SMIT	Prof C T Singh	380	100000.00	250000.00	350000.00

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	Automatic transmission in bicycle with artificial intelligence	Student	Bachelor	Successfully Completed	3	20000.00	50000.00	0.00	70000.00	IP – Tech Transfer/Commercialization Phase
2016-17	Idea to PoC / Prototype / Innovation	Smart Street Light	Student	Bachelor	Successfully Completed	1	20000.00	50000.00	350000000.00	350070000.00	Graduated Startup
2017-18	Idea to PoC / Prototype / Innovation	Untapped Technologies Pvt Ltd	Student	Bachelor	Successfully Completed	1	10000.00	50000.00	0.00	60000.00	Graduated Startup

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 Rupees)		
						Institution Own Fund	Sponsorship / Grant Fund	Total Amount Spent towards Patent Filing (in Rupees)
2016-17	Nil	Nil	Student	National	Provisional/Complete Specification	0.00	0.00	0.00
2017-18	A chemical sensor and a method of preparation thereof	201731027531	Student and Faculty	International	Application Published	14000.00	0.00	14000.00

Intellectual Properties Filed

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

2017-18	A pharmaceutical compound with anti cancer activity	201731027530	Student and Faculty	International	Application Published	14000.00	0.00	14000.00
2017-18	A system and method for homophone disambiguation in speech recognition	201831008833	Faculty	International	Patent Granted	45000.00	0.00	45000.00

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)

Not Applicable!

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	Total Grant Allocated Amount (in Rupees)	Total Grant Received Amount (in Rupees) (as of 31st March 2018)	Purpose of Grant Utilization (Multiple options can be selected)	Purpose of Grant Utilization (Other)
2015-16	Government	Department of Science and Technology GOI	05.0	6000000.00	2550000.00	Other	Fund for improvement of Science and Technology infrastructure in Universities and Higher Educational Institutions
2016-17	Non-Government	Dr Ramdas Pai and Mrs Vasanthi Pai Endowment Fund	01.0	2330000.00	2330000.00	Other	Graphene Back Surface Field Based on Low Cost Silicon Nanowire Solar Cells
2016-17	Non-Government	Dr Ramdas Pai and Mrs Vasanthi Pai Endowment Fund	01.0	580000.00	580000.00	Other	Healthcare Data Analytics
2016-17	Non-Government	Dr Ramdas Pai and Mrs Vasanthi Pai Endowment Fund	01.0	1900000.00	1900000.00	Other	Wireless Internet of Things (IOT)
2017-18	Government	UGC DAE Consortium for Scientific Research	03.0	260000.00	260000.00	Other	INVESTIGATION OF SILICON NANOWIRE GRAPHENE OXIDE HETEROJUNCTION FOR PHOTOVOLTAICS APPLICATIONS
2017-18	Government	Ministry of Science and Technology	03.0	1580600.00	647000.00	Other	CSIR RESEARCH STUDY AND DEVELOP A NATURAL LANGUAGE PARSER FOR NEPALI LANGUAGE

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 Rupees)	Total Number of Successful Investments in Ideas / Innovation / Start-ups	Total Amount Invested
2015-16	Angel Investment Fund	0.00	0	0.00
2016-17	Angel Investment Fund	0.00	0	0.00
2017-18	Angel Investment Fund	2000000.00	3	2000000.00

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

Not Applicable!

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)			
Supercomputing Centre, Design Centre			
List Maximum Five Advanced Labs Infrastructures 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
Incubation Center	Design, Technology, Research and Development, Innovation	Prof C T Singh	tejbanta.c@smit.smu.edu.in
Innovation Studio	Design, Technology, Research and Development, Innovation	Prof C T Singh	tejbanta.c@smit.smu.edu.in
Supercomputing Lab	High Performace Computing, Research and Development, Innovation	Prof Ajeya Jha	ajeya.jha@smit.smu.edu.in

Pre Incubation Centre Available in your Campus

Pre-Incubation Centre			
Yes			
Type of Centre (Multiple options can be selected)			
EDC/IEDC/NEW Gen EDC, Innovation Cell/Startup Cells, Student Innovation and Entrepreneurship Clubs			
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
Incubation Center	Design, Technology, Research and Development, Innovation	Prof C T Singh	tejbanta.c@smit.smu.edu.in

Incubation Unit/Acceleration Centre/ Research Park / STEP

Infrastructures & Facilities to Support Innovations and Start-ups

Advanced Infrastructure

Incubation Unit/Acceleration Centre/ Research Park / STEP Available in your Campus

Yes

Type of Centre (Multiple options can be selected)

Incubation Centre

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
AICSMUTBIF	Technology Driven Business and Entrepreneurship Development	Prof C T Singh	tejbanta.c@smit.smu.edu.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

Not Applicable!**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
2015-16	Incubation Services/Support Received from Other Institute/Incubator	NIL	Investment	0
2016-17	Incubation Services/Support Received from Other Institute/Incubator	NIL	Mentoring	0
2017-18	Incubation Services/Support Received from Other Institute/Incubator	Atal Innovation Mission	Pre-incubation,Incubation,Networking,Seed fund	0

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

Not Applicable!**Faculty with Entrepreneurial Experience**

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

Not Applicable!

Innovation in Governance

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

Financial Year	Categories	Title of the Innovation	Brief About Solutions / Approaches Developed and Deployed in Your Institute	Total Project Amount (in Rupees)	Revenue Generated (in Rupees)	Impact created (No. of Direct Beneficiaries/Users)
2015-16	Exam and Attendance Reforms	Attendance Management System	Digitization of attendance of students for better maintenance of data.	0.00	0.00	4000
2017-18	Security and Surveillance	CCTV and BIOMETRIC	For better surveillance and security of students and staffs	2700000.00	0.00	4000

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