

Research Project Details, Sikkim Manipal Institute of Technology						
SL#	TITLE OF PROJECTS	SANCTIONED BY	YEAR OF SANCTIONED	NAME OF PRINCIPAL INVESTIGATOR	DEPARTMENT	SANCTIONED AMOUNT
1	FUND FOR IMPROVEMENT OF S&T INFRASTRUCTURE IN UNIVERSITIES AND HIGHER EDUCATIONAL INSTITUTIONS (FIST) GRANTS	Ministry of Science & Technology, DST, GOI	2015-16	Dr. Sangeeta Jha	CHEMISTRY	6,000,000
2	PHOTOCATALYTIC DEGRADATION OF USED LASER DYE SOLUTION	Department of Atomic Energy(DAE) GOI	2018-19	Dr. Somnath Chatterjee	CMSNT	2,261,900
3	COMPUTATIONAL INVESTIGATION OF LOW-DIMENSIONAL MATERIALS FOR TUNNEL JUNCTION DEVICES	AICTE	2018-19	Dr. Bikash Sharma	E & C Department	2,160,000
4	EXPERIMENTAL STUDIES ON TROPOSPHERIC SCINTILLATION AND ASSOCIATED RAIN ATTENUATION FOR SATCOM LINKS OVER NORTH EASTERN INDIA(SIKKIM) AT KU/KA BANG	Department of Space, GOI	2018-19	Dr.Swastika Chakraborty	E & C Department	1,758,000
5	CSIR RESEARCH : STUDY AND DEVELOP A NATURAL LANGUAGE PARSER FOR NEPALI LANGUAGE	MINISTRY OF SCIENCE & TECHNOLOGY, DEPTT OF SCIENCE & TECHNOLOGY, GOVT OF INDIA	2017-18	Dr. Archit Yajnik	MATHEMATICS	1,580,600
6	DETERMINATION OF NON-LINEAR INDUCTANCE OF THREE-PHASE INDUCTION MOTOR	AICTE	2018-19	Mohammad Nasir Ansari	E & E Department	1,370,000
7	IMPACT OF ACTIVE REMINDERS ON MEDICATION ADHERENCE	AICTE	2018-19	Prof. Ajaya Jha	Management Department	760,000
8	RESARCH STUDY ON"TIME & WORK STUDY FOR PR FUNCTIONARIES IN INDIA".	National Institute of Rural Development & panchayati Raj,Govt.of India.	2018-19	Prof. Ajaya Jha	Management Department	684,400
9	INVESTIGATION OF SILICON NANOWIRE/GRAPHENE OXIDE HETEROJUNCTION FOR PHOTOVOLTAICS APPLICATIONS	UGC-DAE Consortium for Scientific Research,Indore	2018-19	Dr. Bibhu Prasad Swain	CMSNT	226,440
10	Graphene Back Surface Field Based on Low Cost Silicon Nanowire Solar Cells	SMU-ENDOWMENT FUND	2016-17	Prof. Utpal Deka (PI)	PHYSICS	3,010,000
11	Health Care Data Analysis	SMU-ENDOWMENT FUND	2016-17	Prof. Kalpana Sharma, Mr. Sunil Dhimal	COMPUTER SCIENCE & ELECTRONICS	2,152,500
12	Wireless Internet of Things (IOT)	SMU-ENDOWMENT FUND	2016-17	Prof. R.N Bera	ELECTRONICS & COMMUNICATION	5,000,000

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13	Design of Micristrip Bandstop Filter banks towards the development of Interference resistant UWB indoor Communication System Development of Reconfigurable Bandpass Microstrip Filters for Multiple Communication System in a Single Wireless Device	TMA PAI Research Grant	2018-19	Dr. Saurav Dhar, Mr. Saumya Das Dr. Tanushree Bose Mr. Bijay Rai	ELECTRONICS & COMMUNICATION	1,000,000
14	Experimental Investigation of the Influence of Vegetable Lubricants during the Machining Inconel 718	TMA PAI Research Grant	2019-20	T. Yanki Ladhaki, Dr. B.B Pradhan	MECHANICAL ENGINEERING	200,000
15	Hybridization of Visual Cryptography & Stegnography for Digital Image Copyright Protection	TMA PAI Research Grant	2019-20	Dr. Sandeep Gurung	COMPUTER SCIENCE & ELECTRONICS	200,000
16	Development of Stable Oxide Photoanodes for Solar Hydrogen Production from Photoelectrochemical Water Splitting Proposal	TMA PAI Research Grant	2018-19	Dr.Soumya Kanti Biswas	CHEMISTRY	1,50,000
17	Automatic danger/ threat pose detection using 3D depth camera	TMA PAI Research Grant	2018-19	Dr. Amrita Biswas	ELECTRONICS & COMMUNICATION	32,000
18	Bio-Inspired Exoskeleton for Human Upper Limb	TMA PAI Research Grant	2018-19	Dr. Akash Kr. Bhoi	ELECTRICAL & ELECTRONICS	50,000
19	Smart Autonomous Hydraulic Solar Tracking System Based on IOT	TMA PAI Research Grant	2018-19	Dr.Moumi Pandit	ELECTRICAL & ELECTRONICS	103,000
20	Bifurcation of supernonlinear waves in chaos plasmas	TMA PAI Research Grant	2018-19	Dr. Asit Saha	MATHEMATICS	1,000,00
21	Effect of different types of fibers on workability and compressive strength of self-compacting concrete".	TMA PAI Research Grant	2018-19	Mr. Abhranil Adak	CIVIL	50,000
22	To Investigate the Mechanical, Tribological and Biomedical Properties of Multilayered Diamond like Carbon(DLC) thin film	TMA PAI Research Grant	2018-19	Dr. Ranjan Kr. Ghadai	MECHANICAL ENGINEERING	1,25,000
23	Laser Surface Texturing on Bio-Materials	TMA PAI Research Grant	2018-19	Ishwar Shivakoti	MECHANICAL ENGINEERING	1,000,00

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24	Techno-Economic Analysis of Hybrid Renewable Energy Systems for Different Applications in the Hilly Himalayan Terrian of North-East India	TMA PAI Research Grant	2019-20	Mr. Abhinandan Baruah	ME	100,000
25	Development of outdoor channel sounder and Sensing System	TMA PAI Research Grant	2019-20	Dr. S N Sur & Mr. Arun Kumar Singh	ECE	180,000
26	Application of dynamical systems in the study of nonlinear evolution equations	TMA PAI Research Grant	2019-20	Mr. Yogen Ghatani, Dr. Asit Saha	MATHEMATICS	120,000
27	Establishment of the vericomposting Unit in SMIT	SMU-ENDOWMENT FUND	2020-21	Abranil Adak	CE	2,00,000
28	Computational Design of Energy Efficient Multilayer, fault Tolerant, Thermally Stable Reversible Arithmetic Logic unit by quantam dot cellular automata psin technology	SMU-ENDOWMENT FUND	2020-21	Dr. Swarup Sarkar	ECE	1000000
29	To Create a Hexacopter Maintained by an AI Based Drone Service in the Hilly Areas to Remotely Deliver Medicine	SMU-ENDOWMENT FUND	2020-21	Mr. Himangshu Pal (PI), Dr. Ratika Pradhan (Co-PI)	ECE, CA	64000
30	Android/iOS APP (SMIT Campus)	SMU-ENDOWMENT FUND	2020-21	Dr. Rustam Ali Ahmed	IT	4, 86,000
31	Influence of Artificial Aging on Stir Cast Aluminum alloys and Metal Matrix Composites	TMA PAI Research Grant	2020-21	PI Dr. Ranjan Kr. Ghadai Co-PI Dr. Soham Das, SMIT Dr. Kanak Kalita, Faculty Veltech University, Mr. Chethan K.N., Manipal Institute of Technology, Manipal Prof. Xiao-Zhi Gao, University of Eastern Finland	ME	1000000