

Research Project Details, Sikkim Manipal Institute of Technology						
SL#	TITLE OF PROJECTS	SANCTIONED BY	YEAR OF SANCTIONED	NAME OF PRINCIPAL INVESTIGATOR	DEPARTMENT	SANCTIONED AMOUNT
	DESIGN & DEVELOPMENT OF SOFTWARE RADIO SYSTEM(SRS)	RCI, HYDERABAD	2006-07	Dr. (Prof.) R N Bera, Dept. of E&C	ELECTRONICS & COMMUNICATION	53,000,000
1	COST EFFECTIVE THIN-FILM POLYCRYSTALLINE-SILICON SOLA MODULES	Ministry of Science & Technology, DST, GOI	2014-15	Dr. Somnath Chatterjee	CMSNT	10,946,434
2	COST EFFECTIVE SYNTHESIS OF GRAPHENE AND METAL INCORPORATED GRAPHENE: THEIR APPLICATION AS SENSORS OF ENVIRONMENTAL GASES	MINISTRY OF COMMUNICATIONS AND & INFORMATION TECHNOLOGY, DEPARTMENT OF ELECTRONICS & INFORMATION TECHNOLOGY (DEITY)	2013-14	PROF. AJAY KUMAR RAY	CMSNT	9,106,000
3	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
4	DBT: Doped hydrogenated Amorphous Silicon Carbon Alloys, (a-SiC:H) for Artificial Heart Valve and Stent Application	Ministry of Science & Technology, Dept. of BioTEchnology	2012-13	Dr. Bibhu Prasad Swain	NANOTECHNOLOGY	4,339,000
5	INTERNATIONAL CENTRE FOR NANO TECHNOLOGY AND APPLIED ADHESION	Funded by SMU/SMIT	2008-09	Dr. Sushobhan Choudhury, Dept. of EC	ELECTRONICS & COMMUNICATION	2,695,000
6	SERB: SYNTHESIS AND ELECTRICAL CHARACTERIZATION OF GALLIUM PHOSPHIDE NANOWIRES THIN FILMS DEPOSITED BY ATMOSPHERIC CHEMICAL VAPOUR DEPOSITION	DST: SCIENCE AND ENGINEERING RESEARCH BOARD (SERB)	2013-14	Dr. Bibhu Prasad Swain	CMSNT	2,350,000
7	PHOTOCATALYTIC DEGRADATION OF USED LASER DYE SOLUTION	Department of Atomic Energy(DAE) GOI	2018-19	Dr. Somnath Chatterjee	CMSNT	2,261,900
8	COMPUTATIONAL INVESTIGATION OF LOW-DIMENSIONAL MATERIALS FOR TUNNEL JUNCTION DEVICES	AICTE	2018-19	Dr. Bikash Sharma	E & C Department	2,160,000
9	SYNTHESIS CHARACTERIZATION AND PHOTOCATALYTIC ACTIVITY OF PURE AND METAL DOPED SEMICONDUCTOR NANOCOMPOSITES	Ministry of Science & Technology, DST, GOI	2014-15	Dr. Takhellambam Inakhumbi Chanu	CMSNT	2,010,000
10	PG RESEARCH IN PHYSICS (FIST)	Ministry of Science & Technology, GOI	2006-07	Dr. Ashok Rao	PHYSICS	2,000,000
11	INFRASTRUCTURE AUGMENTATION IN GEOINFORMATICS FOR EDUCATION	Department of Space, GOI	2008-09	Dr. (Prof) M K Ghose, Dept. of CSE	COMPUTER SCIENCE & ELECTRONICS	2,000,000
12	HIGH PERFORMANCE POLYMERSINGLE WALL CARBON NANOTUBE COMPOSITES FOR POTENTIAL APPLICATION TO SPACECRAFT DEFENCE AND ELECTRONICS	AICTE	2008-09	Prof S Choudhury, Dept of E&C/ Dr. Ajay Kumar AE&I Dept	ELECTRONICS & COMMUNICATION	2,000,000

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13	INVESTIGATION DEVELOPMENT OF HIGH PERFORMANCE POLYMERIC NANOADHESIVE FOR AUTOMOBILES & AVIATION APPLICATIONS	AICTE	2008-09	Sangeeta Jha, Dept. of Chem.	CHEMISTRY	2,000,000
14	BLIND SOURCE SEPERATION & GENETIC ALGORITHM BASED INFORMATION SECURITY	AICTE	2008-09	Anil Kumar, Dept. of CSE	COMPUTER SCIENCE & ELECTRONICS	2,000,000
15	DESIGN AND SYNTHESIS OF NEW PORPHYRIN TEMPLATES FOR CONSTRUCTION OF MESOPOROUS MATERIALS (SR/SI/IC-08/2006)	Ministry of Science & Technology, GOI	2006-07	Dr. Sanjay Dahal, Dept. of Chemistry	CHEMISTRY	1,935,000
16	AICTE: FLUORESCENT CARBON NANOPARTICLES DERIVED FROM ELECTROCHEMICAL ROUTES	AICTE	2012-13	Dr. Pankaj R. Singh	CHEMISTRY	1,896,000
17	PRE-OPERATIVE PROGRAMME FOR INDIAN PARTICIPATION IN THE FAIR PROJECT AT GSI, GERMANY-ACCELERATOR AND DETECTOR RELATED R&D AND PROTOTYPING	Ministry of Science & Technology, GOI	2008-09	Dr. G C Mishra, Dept. of Phy.	PHYSICS	1,850,000
18	AICTE: DEVELOPMENT OF LOW-COST AUTOMATED IONTOPHORETIC INSULIN DELIVERY DEVICE INTEGRATED WITH BIOSENSOR SYSTEM	AICTE	2010-11	Rajdeep Das Gupta	APPLIED ELECTRONICS (AE&I)	1,800,000
19	AICTE: DESIGN OF AN INTEGRATED SECURITY SCHEME FOR WIRELESS SENSOR NETWORK	AICTE	2011-12	Dr. Kalpana Sharma	COMPUTER SCIENCE & ELECTRONICS	1,800,000
20	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
21	AICTE: WEB BASED SPATIAL DECISION SUPPORT SYSTEM (SDSS) FOR LANDSLIDE HAZARD INFORMATION FOR SIKKIM HIMALAYAS	AICTE	2011-12	Prof. (Dr.) M K Ghose	COMPUTER SCIENCE & ELECTRONICS	1,700,000
22	AICTE: PERFORMANCE ANALYSIS OF THREE LAYER MIPV6 (TLMIPV6) ARCHITECTURED IN EXPERIMENTAL TESTBED	AICTE	2011-12	Dr. Nitul Dutta, Dept. of CSE	COMPUTER SCIENCE & ELECTRONICS	1,665,000
23	NUMERICAL SOLUTIONS OF INTEGRAL EQUATIONS USING WAVELTS & OTHER METHODS TOGETHER WITH APPLICATIONS	AICTE	2008-09	Prof. B S Dandapat, Dept. of Mathematics	MATHEMATICS	1,650,000
24	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

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25	AICTE: GIS BASED LEAST COST ROUTING OF POWER DISTRIBUTION FEEDER TAKING ASPECTS OF RELIABILITY	AICTE	2010-11	Sandeep Chakravorty	ELECTRICAL & ELECTRONICS	1,500,000
26	DRDO: DEVELOPMENT OF CALORIMETRIC SENSORS FOR DETECTION OF NITROAROMATICS AND EXPLOSIVE MATERIALS	Ministry of Defence, GOI	2007-08	Dr. Sanjay Dahal, Dept. of Chemistry	CHEMISTRY	1,498,900
27	LITHOGRAPHICALLY-DEFINED SITE-SELECTIVE GROWTH OF IN-SITU MAGNETIC MATERIAL FILLED CARBON NANOTUBES BY CHEMICAL VAPOR DEPOSITION & STUDY OF THEIR MAGNETIC PROPERTIES FOR APPLICATION IN MAGNETIC RECORDING MEDIA	DST: SCIENCE AND ENGINEERING RESEARCH BOARD (SERB)	2013-14	DR. JOYDIP SENGUPTA, DEPT. PHYSICS	PHYSICS	1,464,000
28	AICTE: AUTOMATIC SPOKEN LANGUAGE IDENTIFICATION FOR INDIAN LANGUAGES	AICTE	2011-12	Dr. Om Prakash Singh	ELECTRONICS & COMMUNICATION	1,435,000
29	INVESTIGATION OF ELECTRO DISCHARGE MACHINING PROCESS CHARACTERISTICS FOR MICROMACHINING APPLICATIONS	AICTE	2007-08	Mr. B B Pradhan, Dept. of ME	MECHANICAL ENGINEERING	1,380,000
30	DETERMINATION OF NON-LINEAR INDUCTANCE OF THREE-PHASE INDUCTION MOTOR	AICTE	2018-19	Mohammad Nasir Ansari	E & E Department	1,370,000
31	AICTE: DIRECT-TO-CONSUMER PROMOTION OF PHARMACEUTICAL PRODUCTS IN INDIA: IMPACT ASSESSMENT	AICTE	2010-11	Prof. Ajeya Jha	MANAGEMENT STUDIES	1,338,000
32	REAL TIME IMPLEMENTATION OF DELAYED FEEDBACK & ROBUST CONTROLLER DESIGNS TO THE INVERTED PENDULUM EXPERIMENTAL SETP	AICTE	2008-09	Rajeeb Dey, Dept. of E&E	ELECTRICAL & ELECTRONICS	1,280,000
33	"UPGRADATION OF PROJECT LAB" MODERNIZATION AND REMOVAL OF OBSOLESCENCE (MODROBS)	AICTE	2008-09	Prof. D Suryanarayan, Dept. of E&E	ELECTRICAL & ELECTRONICS	1,275,000
34	MORPHOLOGICAL STUDY OF RIVER TEESTA IN AND AROUND SINGTAM	AICTE	2007-08	Prof. M. K Ghose, Dept. of CSE	COMPUTER SCIENCE & ELECTRONICS	1,250,000
35	SIMULATION STUDY TO DESIGN INTERNAL DIVERTOR COIL FOR MAXIMISING FLARING OF FIELD LINES NEAR THE STRIKE	National Fusion Programme Projects	2007-08	Dr. Utpal Deka, Dept. of Physics	PHYSICS	1,219,800
36	AICTE: ISOLATION OF PHYTOCHEMICALS AS PEST CONTRAL AGENTS FRO THE PLANTS OF THE MELIACEAE FAMILY OF SIKKIM HIMALAYAN REGION	AICTE	2012-13	DR. N.K. BHATTACHARYA	CHEMISTRY	1,160,000
37	INVESTIGATION OF PROPAGATION OF ION ACOUSTIC WAVE IN PLASMA SHEATH AND PRESHEATH	Ministry of Science & Technology, GOI	2008-09	Dr. Utpal Deka, Dept. of Physics	PHYSICS	1,016,600

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38	ARTIFICIAL IMMUNITY FOR MAN MACHINE INTERACTION OF AUTONOMOUS MOBILE ROBOTS USING SPEECH AGENTS	AICTE	2008-09	Chingtham Tejbanta Singh, Dept of CSE	COMPUTER SCIENCE & ELECTRONICS	1,000,000
39	AICTE: SETTING OF POWER SYSTEM LAB (MODROB)	AICTE	2010-11	Prof. D Suryanarayan	ELECTRICAL & ELECTRONICS	1,000,000
40	QoS PROVISIONING IN MULTIAYER MIPv6 BASED NETWORK	AICTE	2008-09	Dr. Nitul Dutta, Dept. of CSE	COMPUTER SCIENCE & ELECTRONICS	950,000
41	AICTE: DEVELOPING AND MODELS FOR MULTIBAND PRINTED ANTENNAS USING HYBRID ALGORITHM TECHNIQUES	AICTE	2011-12	Tanushree Bose Roy	ELECTRONICS & COMMUNICATION	900,000
42	MODERNIZATION AND REMOVAL OF OBSOLESCENCE SCHEME (MODROBS).	AICTE	2013-14	Mohan Pratap Pradhan	COMPUTER SCIENCE & ELECTRONICS	890,000
43	COMPUTER SIMULATION AND THERORETICAL ANALYSES OF FEW THERMODYNAMIC, MECHANICAL AND ELECTRONICS PROPERTIES OF NANOSTRUCTURED NONLINEAR OPTICAL AND OTHER ELECTRONICS COMPOUND	AICTE	2008-09	Dr. (Prof) Ashish Sharma, Dept. of ME	MECHANICAL ENGINEERING	850,000
44	STUDIES ON PHYSICOCHEMICAL PROPERTIES OF NANO ANDHESIVE BONDED HIGH PERFORMANCE POLYMENR	Ministry of Science & Technology, GOI	2010-11	Ms. Nitu Bhatnagar	CHEMISTRY	804,000
45	AICTE: PERFORMANCE COMPARISION OF PROTOCOLS- TRANSPORT, NETWORKS AND MEDIUM ACCESS CONTROL FOR MOBILE ADHOC NETWORKS	AICTE	2010-11	S R BIRADAR/ KALPANA SHARMA	COMPUTER SCIENCE & ELECTRONICS	800,000
46	IMPACT OF ACTIVE REMINDERS ON MEDICATION ADHERENCE	AICTE	2018-19	Prof. Ajaya Jha	Management Department	760,000
47	SMIT – AICTE A/C : “OSCILLATORY PHENOMENA”	AICTE	2010-11	Prof. Amlan Kumar Das	CHEMISTRY	700,000
48	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
49	OPTIMIZATION OF OPTICAL PARAMETERS BY DYE DOPING IN PLANAR POLYMERIC WAVEGUIDES FOR INTEGRATED OPTICAL APPLICATION	Ministry of Science & Technology, GOI	2006-07	Late. Dr. Rajesh Kumar, Dept. of Physics	PHYSICS	667,294
50	CONTOUR AND 3D SURFACE MAPPING OF SIKKIM USING SATELLITE DATA	AICTE	2008-09	Mrs. Ratika Pradhan, Dept.of CSE	COMPUTER SCIENCE & ELECTRONICS	662,000

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51	ENREPRENEURSHIP DEVELOPMENT CELL (EDC)	Ministry of Science & Technology, GOI	2008-09	Dr. Ajeya Jha, Dept. of Mgt	MANAGEMENT STUDIES	600,000
52	AICTE: DEVELOPMENT OF A REAL-TIME MACHINGE LEARNING BASED BOTNET DETECTION MECHANISM	AICTE	2010-11	DR. MANOJ DAHAL/ PIJUSH BARTHAKUR	COMPUTER SCIENCE & ELECTRONICS	600,000
53	A FRAMEWORK FOR SECURE COMMUNICATION OF MULTIMEDIA (VIDEO) DATA OVER MOBILE ADHOC NETWORKS	AICTE	2007-08	Mr. Hiren Kumar Deva Sarma, Dept. of IT	INFORMATION TECHNOLOGY	500,000
54	LOW POWER CONSUMING & HIGH FREQUENCY NANODEVICE (INCLUDING SINGLE ELECTRON & SPONTRONIC DEVICES) BASED VLSI CIRCUITS FOR MEDCIAL AND SPACE APPLICATION	AICTE	2008-09	Prashanta Chandra Pradhan, Dept. of E&C	ELECTRONICS & COMMUNICATION	480,000
55	INNOVATION INCUBATION CENTRE (COMMERCIALIZATION OF AJOOBA TUBELIGHT AND AUTOMATIC FAN/COOLER CONTROLLER))	Ministry of Science & Technology, GOI	2007-08	Mr. Anand Prakash Tiwari, Dept. of ME	MECHANICAL ENGINEERING	420,200
56	DEVELOPMENT OF AN AUTOMATIC CLUSTERING TECHNIQUE FOR GENE EXPRESSION DATA	AICTE	2007-08	Mr. Samarjeet Borah(Dept. of CSE)	COMPUTER SCIENCE & ELECTRONICS	340,000
57	MINNING THE DIGITAL IMAGES OF IN SITU HYBRIDIZATION (ISH) GENE EXPRESSION DATA FOR ASSOCIATION RULES	AICTE	2007-08	Mrs. M Anandhavalli, Dept. of CSE	COMPUTER SCIENCE & ELECTRONICS	240,000
58	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
59	GRANTS: UGC-DAE CSR: THERMAL & ELEC PROPERTIES	UGC-DAE Consortium for Scientific Research	2006-07	Dr. Ashok Rao	PHYSICS	102,000
60	NTS-CIIL-MYSORE : ACTIVITY BASED TEACHING METHOD - TESTING AND EVALUTATION WITH THE MIDDLE SCHOOL TEACHERS OF THE STATE OF SIKKIM	NTS-CIIL-MYSORE-MHRD	2009-10	Prof. Amlan Kumar Das	CHEMISTRY	100,000
61	RURAL TECHNOLOGY ACTION GROUP NORTH EAST , IIT GUWAHATI: FUND RECEIVED FOR APPROVED PROPOSAL MANUAL CORN SEED REMOVER			Mr. Anand Prakash Tiwari, Dept. of ME	MECHANICAL ENGINEERING	68,000
62	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
63	Health Care Data Analysis	SMU-ENDOWMENT FUND	2016-17	Prof. Kalpana Sharma, Mr. Sunil Dhimal	COMPUTER SCIENCE & ELECTRONICS	2,152,500

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64	Wireless Internet of Things (IOT)	SMU-ENDOWMENT FUND	2016-17	Prof.R.N Bera	ELECTRONICS & COMMUNICATION	5,000,000
65	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
66	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
67	Hybridization of Visual Cryptography & Steganography for Digital Image Copyright Protection	TMA PAI Research Grant	2019-20	Dr. Sandeep Gurung	COMPUTER SCIENCE & ELECTRONICS	200,000
68	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
69	Automatic danger/ threat pose detection using 3D depth camera	TMA PAI Research Grant	2018-19	Dr. Amrita Biswas	ELECTRONICS & COMMUNICATION	32,000
70	Bio-Inspired Exoskeleton for Human Upper Limb	TMA PAI Research Grant	2018-19	Dr. Akash Kr. Bhoi	ELECTRICAL & ELECTRONICS	50,000
71	Smart Autonomous Hydraulic Solar Tracking System Based on IOT	TMA PAI Research Grant	2018-19	Dr.Moumi Pandit	ELECTRICAL & ELECTRONICS	103,000
72	Bifurcation of supernonlinear waves in chaos plasmas	TMA PAI Research Grant	2018-19	Dr. Asit Saha	MATHEMATICS	1,000,00
73	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
74	To Investigate the Mechanical, Tribological and Biomedical Properties of Multilayered Diamond like Carbon(DLC) thin film	TMA PAI Research Grant	2018-19	Ranjan Kr. Ghadai	MECHANICAL ENGINEERING	1,25,000

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75	Laser Surface Texturing on Bio-Materials	TMA PAI Research Grant	2018-19	Ishwar Shivakoti	MECHANICAL ENGINEERING	1,000,00
76	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
77	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
78	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
						166,232,068