

Nirma University
INSTITUTE OF TECHNOLOGY
Details about funded Projects by Faculty Members IT, NU

Sr. No.	Name of Project	Name of PI	Name of CoPI	Name of Funding Agency	Funds provided (INR in Lakhs)	Duration in Months
1	PLASMA PYROLYSIS OF DRY MUNICIPAL SOLID WASTE (MSW)/REFUSED DERIVED FUEL (RDF) FOR SYNGAS AND ELECTRICITY GENERATION	PATEL SANJAY SURENDRABHAI	PATEL RAJESHKUMAR NARANBHAI	Gujarat Council on Science and Technology	45.232	36
2	STUDIES AND PROTOTYPE DEVELOPMENT FOR RECYCLE AND REUSE OF WASTE STREAMS FROM STAINLESS STEEL INDUSTRIES	RUPARELIA JAYESH PRABHUDAS	DAVE URMIL VATSALBHAI	Gujarat Council on Science and Technology	22.33	23
3	SYNTHESIS AND BIOLOGICAL EVALUATION OF FUNCTIONALIZED PYRAZOLINE DERIVATIVES	PILLAI SHIBU N. GOPINATHAN	PATNI NEHA	Nirma University	1	11
4	DEVELOPMENT OF METALLIC OXIDES BASED ELECTROLYTE FOR THE ORGANIC SOLAR CELL	PATNI NEHA	PILLAI SHIBU N. GOPINATHAN	Nirma University	1	11
5	CALIBRATION AND VALIDATION OF RISAT-1 SAR SENSOR	PATEL PARUL RUCHIR	-- Select --	Indian Space Research Organisation	44.1	121

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6	TORSIONAL BEHAVIOR OF REINFORCED CONCRETE ELEMENTS STRENGTHENED WITH STAINLESS STEEL WIRE MESH	RAIYANI SUNIL DINESHBHAI	PATEL PARESH VARDHMANDAS	Science and Engineering Research Board	18.3	36
7	IMPROVEMENT IN PERFORMANCE OF RETAINING WALL REINFORCED USING WASTE MATERIALS	RANGWALA HASAN MOHAMMED I	RANGWALA HASAN MOHAMMED I	Nirma University	1	11
8	PERFORMANCE AND DURABILITY STUDIES FOR CONCRETE PAVEMENTS UTILIZING SUPPLEMENTARY CEMENTITIOUS MATERIALS, RECYCLED CONCRETE AGGREGATES AND MANUFACTURED SAND.	KAMPLIMATH HEMANTH K G MALLIKARJUNA SWAMY	KAMPLIMATH HEMANTH K G MALLIKARJUNA SWAMY	Nirma University	1	11
9	APPLICATIONS OF MICROCAPSULES FOR SELF HEALING OF CRACKS IN REINFORCED CONCRETE ELEMENTS	THAKKAR SONAL PRAGNESH	--	Nirma University	1	11
10	EXPERIMENTAL INVESTIGATION ON COMPOSITE COLUMN UNDER MONOTONIC AXIAL LOADING	PATEL ARTH JITENDRAKUMAR	SUTHAR JAHANVI MITESHKUMAR	Nirma University	1	11

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11	USE OF RECYCLED C&D WASTE, FLY ASH, BOTTOM ASH, DREDGED MARINE SAND AND GYPSUM FOR CONSTRUCTION OF SUSTAINABLE SALT PAN BEDS FOR ENHANCEMENT OF SALT PRODUCTIVITY THROUGH PREVENTION OF BRINE PERCOLATION.	THAKKAR SONAL PRAGNESH	DAVE URMIL VATSALBHAI	Department of Science & Technology	9	12
12	PROACTIVE SOLUTIONS FOR ACHIEVING TRUST IN CLOUD COMPUTING USING MACHINE LEARNING APPROACH	BHAVSAR MADHURI DASHRATH	PRASAD VIVEK KUMAR SAHDEO	Department of Science & Technology	23.945	36
13	DEVELOPMENT OF ADVANCED ALGORITHMS FOR LAND USE LAND COVER CLASSIFICATION USING DEEP LEARNING TECHNIQUES	GARG SANJAY MADANLAL	JAIN SWATI MANISH	Indian Space Research Organisation	20.916	36
14	DESIGN AND DEVELOPMENT OF A SCALABLE FRAMEWORK FOR GEOSPATIAL/GEOSCIENCE DATA INGESTION, AD-HOC QUERIES , AND ANALYSIS ON BIG DATA ENVIRONMENT	GARG SANJAY MADANLAL	--	Indian Space Research Organisation	19.82	24
15	AUTOMATION OF WATER IRRIGATION SYSTEMS USING WIRELESS SENSOR NETWORKS	OZA PARITA RAJIV	PATEL USHA DINESHBHAI	Nirma University	0.715	11

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16	DESIGN AND DEVELOPMENT OF CHARGE CONTROLLER FOR BATTERY SYSTEM.	SHAH KAUMIL BHARATKUMAR	AMROLIA HORMAZ Z.	Nirma University	0.56	11
17	FABRICATION OF BI-DIRECTIONAL CONVERTER FOR VEHICLE-GRID INTERFACE	PATTATH KAPIL N.	THANKACHAN JOSE	Nirma University	0.46	11
18	LOW VOLTAGE RIDE THROUGH ENHANCEMENT OF INDUCTION GENERATOR BASED WIND FARMS INCORPORATING FAULT CURRENT LIMITER	MEHTA CHINTAN RAJESHKUMAR	TAILOR TARUNKUMAR RAMESHCHANDRA	Nirma University	0.7	11
19	DESIGN AND DEVELOPMENT OF PROTECTION SCHEME OF RADIAL TRANSMISSION SYSTEM	KANOJIA SARIKA SANJAY	--	Nirma University	0.578	11
20	IMPLEMENTATION OF GRID CONNECTED PHOTOVOLTAIC SYSTEM	BHATT CHANAKYA BHARATBHAI	KARRI V V SATYANARAYANA	Nirma University	0.9	11

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21	2021 DESIGN & DEVELOPMENT OF INTERNET OF THINGS (IOT) BASED REAL TIME- SMART ENERGY MANAGEMENT SYSTEM (RT-SEMS) FOR GREEN MICRO-GRID	PARASHAR SONAM	SHAH MANISHA TUSHAR	Nirma University	0.956	11
22	DEVELOPMENT OF INTEGRATED WASTEWATER TREATMENT SYSTEMS USING ALTERNATIVE INNOVATIVE APPROACHES OF MICROBIAL FUEL CELLS, MAGNETIC NANOPARTICLES AND VERMICOMPOSTING WITH WATER HYACINTH FOR SECONDARY SLUDGE MANAGEMENT	CHAUHAN CHETNA CHATURBHAI	SHAH MANISHA TUSHAR	GSBTM	48.966	35
23	GROWTH AND CHARACTERIATION OF NANO STRUCTURED THIN FILMS OF MAGNETIC MATERIALS FOR HIGH SPEED COMPUTER MEMORY CELL	CHAUHAN CHETNA CHATURBHAI	DEVASHRAYEE NIRANJAN MANEKLAL	Gujarat Council on Science and Technology	25.355	31
24	DEVELOPMENT OF AUTONOMOUS RECONFIGURABLE LOAD CARRIER	MECWAN AKASH ISHUDAS	SHAH DHAVAL GOPALCHANDRA	Gujarat Council on Science and Technology	17.32	36
25	DEVELOPMENT AND TESTING OF NAVICSUITE: PROCESSING SOFTWARE TOOL FOR NAVIC RECEIVER	GAJJAR SACHIN HARISHBHAI	GAJJAR SACHIN HARISHBHAI	Indian Space Research Organisation	20.002	24

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26	SYNTHESIS AND CHARACTERIZATION OF HEXAFERRITE SAMPLES FOR HIGH FREQUENCY APPLIANCES	GUPTA TANUJ MANOJ	CHAUHAN CHETNA CHATURBHAI	Nirma University	0.7	11
27	COVAUXILIARY: A NURSING ASSISTANT ROBOT	SHAH DHAVAL GOPALCHANDRA	MECWAN AKASH ISHUDAS	Nirma University	1	11
28	GROWTH AND CHARACTERIATION OF NANO STRUCTURED THIN FILMS OF MAGNETIC MATERIALS FOR HIGH SPEED COMPUTER MEMORY CELL	CHAUHAN CHETNA CHATURBHAI	--	Gujarat Council on Science and Technology	25.355	35
29	EXPERIMENTAL SETUP OF VISIBLE LIGHT COMMUNICATION SYSTEM	SHARMA RACHNA	SHARMA RACHNA	Nirma University	0.918	11
30	DESIGN AND DEVELOPMENT OF FABRY PEROT CAVITY-BASED FEED CLUSTER	PUJARA DHAVAL AMRUTBHAI	--	Indian Space Research Organisation	22.34	24

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31	IOT - DRIVEN INTELLIGENT TRANSPORTATION SYSTEM FOR NIRMA UNIVERSITY	TRIVEDI CHANDAN	BHATTACHARYA PRONAYA	Nirma University	0.933	11
32	LABMIMO: VIRTUAL WORKBENCH FOR NONLINEAR COUPLED MULTI-INPUT MULTI-OUTPUT PROCESS CONTROL STUDY	PATEL ALPESHKUMAR ISHWARBHAI	--	Nirma University	1	11
33	IOT BASED SMART CART FOR SHOPPING IN SUPER MARKETS	SHUKLA DEEPIKA AJAY	SHAH MONIKA GUNVANTBHAI	Nirma University	0.61	11
34	A DIGITAL HUMANITIES PROJECT ON STUDY OF PRESENCE AND PROBLEMS OF GENDERED LANGUAGE IN DIGITAL WORLD (COMPUTER MEDIATED COMMUNICATION) WITH SPECIAL REFERENCE TO POLITICAL REPORTING USING AI	MISHRA RICHA PATANJALI	RAO RATNA VENKATESHWARA	Nirma University	1.4	23
35	TOOL WEARING MONITORING USING COMPUTER VISION TECHNIQUES	BAGGA PRASHANT JAGDISHCHANDRA	MAKHESANA MAYURKUMAR ASHWINBHAI	Nirma University	1.98	23

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36	DEVELOPMENT OF AUTONOMOUS RECONFIGURABLE LOAD CARRIER	CHAUHAN MIHIR MAHENDRABHAI	FATANIYA BHUPENDRA DAMJIBHAI	Gujarat Council on Science and Technology	17.325	36
37	STUDY ON VIBRATION ASSISTED HOLE FLANGING USING SINGLE POINT INCREMENTAL FORMING	MAKWANA RUDRESHKUMAR DINESHBHAI	MAKWANA RUDRESHKUMAR DINESHBHAI	Nirma University	0.65	11
38	DESIGN OF A LOCOMOTION MECHANISM FOR THE AMPHIBIOUS ROBOT	MEHTA VISHAL KETANKUMAR	CHAUHAN MIHIR MAHENDRABHAI	Nirma University	0.75	11
39	EXPERIMENTAL STUDY AND CORRELATION DEVELOPMENT OF EROSIVE WEAR FOR PUMP AS TURBINE	TANDEL ROSHANKUMAR RAMESHCHANDRA	--	Nirma University	0.7	11
40	STRENGTHENING PRECAST BEAM COLUMN CONNECTIONS USING STAINLESS STEEL WIRE MESH (SSWM) - EXPERIMENTAL AND NUMERICAL STUDY	PATEL PARESH VARDHMANDAS	JOSHI DIGESH DILIPKUMAR	Nirma University	28.395	31

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41	DEVELOPMENT OF A VISION BASED MULTI DEGREE OF FREEDOM SERIAL MANIPULATOR FOR PATIENTS SUFFERING FROM NEUROLOGICAL DISORDER AND INFECTIOUS DISEASES (COVID-19)	TRIVEDI REENA RAJANIKANT	DAVE JATINKUMAR MAHESHKUMAR	Gujarat Council on Science and Technology	16.5	24