

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	DeptName	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	CHEMICAL ENG.DEPT.(UG)	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	CHEMICAL ENG.DEPT.(UG)	22.33	23
3	SYNTHESIS AND BIOLOGICAL EVALUATION OF FUNCTIONALIZED PYRAZOLINE DERIVATIVES	PILLAI SHIBU N. GOPINATHAN	PATNI NEHA	Nirma University	CHEMICAL ENG.DEPT.(UG)	1	11
4	DEVELOPMENT OF METALLIC OXIDES BASED ELECTROLYTE FOR THE ORGANIC SOLAR CELL	PATNI NEHA	PILLAI SHIBU N. GOPINATHAN	Nirma University	CHEMICAL ENG.DEPT.(UG)	1	11
5	STUDY OF SEMICONDUCTOR PHOTOCATALYTIC MATERIALS FOR WASTEWATER TREATMENT	BORA LEENA VIJAYKUMAR	BORA LEENA VIJAYKUMAR	Nirma University	CHEMICAL ENG.DEPT.(UG)	1	13

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6	CALIBRATION AND VALIDATION OF RISAT-1 SAR SENSOR	PATEL PARUL RUCHIR	-- Select --	Indian Space Research Organisation	CIVIL ENG.DEPT.(UG)	49.336	121
7	TORSIONAL BEHAVIOR OF REINFORCED CONCRETE ELEMENTS STRENGTHENED WITH STAINLESS STEEL WIRE MESH	RAIYANI SUNIL DINESHBHAI	PATEL PARESH VARDHMANDAS	Science and Engineering Research Board	CIVIL ENG.DEPT.(UG)	18.3	36
8	IMPROVEMENT IN PERFORMANCE OF RETAINING WALL REINFORCED USING WASTE MATERIALS	RANGWALA HASAN MOHAMMEDI	RANGWALA HASAN MOHAMMEDI	Nirma University	CIVIL ENG.DEPT.(UG)	1	11
9	PERFORMANCE AND DURABILITY STUDIES FOR CONCRETE PAVEMENTS UTILIZING SUPPLEMENTARY CEMENTITIOUS MATERIALS, RECYCLED CONCRETE AGGREGATES AND APPLICATIONS OF MICROCAPSULES FOR SELF HEALING OF CRACKS IN REINFORCED CONCRETE ELEMENTS	KAMPLIMATH HEMANTH K G MALLIKARJUNA SWAMY	KAMPLIMATH HEMANTH K G MALLIKARJUNA SWAMY	Nirma University	CIVIL ENG.DEPT.(UG)	1	11
10	APPLICATIONS OF MICROCAPSULES FOR SELF HEALING OF CRACKS IN REINFORCED CONCRETE ELEMENTS	THAKKAR SONAL PRAGNESH	-- Select --	Nirma University	CIVIL ENG.DEPT.(UG)	1	11
11	EXPERIMENTAL INVESTIGATION ON COMPOSITE COLUMN UNDER MONOTONIC AXIAL LOADING	PATEL ARTH JITENDRAKUMAR	SUTHAR JAHANVI MITESHKUMAR	Nirma University	CIVIL ENG.DEPT.(UG)	1	11

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12	SOIL PROPERTIES MODIFICATION USING WASTE MATERIALS PLASTIC WASTE AND ALKALI ACTIVATED BINDERS	SHAH ALKA MURARI	THAKAR HIRAL VISHAL	Nirma University	CIVIL ENG.DEPT.(UG)	1	11
13	DEVELOPMENT ANCL PERFORMANCE EVALUATION OF ULTRA HIGH PERFORMANCE	KOTHARI VINEET GAUTAMCHAND	KOTHARI VINEET GAUTAMCHAND	Nirma University	CIVIL ENG.DEPT.(UG)	1	11
14	FLOOD MODELLING AND SIMULATION USING VARIOUS DIGITAL ELEVATION MODEL	PATEL ANANT DARSHANBHAI	JODHANI KEVAL HARESHBHAI	Nirma University	CIVIL ENG.DEPT.(UG)	1	11
15	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	THAKKAR SONAL PRAGNESH	DAVE URMIL VATSALBHAI	Department of Science & Technology	CIVIL ENG.DEPT.(UG)	9	12
16	STUDY ON SELF-HEALING CAPABILITY OF CALCIUM NITRATE AND METHYL METHACRYLATE BASED MICROCAPSULE ON CONCRETE EXPOSED TO SALINE AND NON-SALINE EXPOSURE	THAKKAR SONAL PRAGNESH	-- Select --	Nirma University	CIVIL ENG.DEPT.(UG)	1	11
17	PROACTIVE SOLUTIONS FOR ACHIEVING TRUST IN CLOUD COMPUTING USING MACHINE LEARNING APPROACH	BHAVSAR MADHURI DASHRATH	PRASAD VIVEK KUMAR SAHDEO	Department of Science & Technology	COMPUTER SCIENCE & ENG.DEPT.(UG)	23.945	36

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18	DEVELOPMENT OF ADVANCED ALGORITHMS FOR LAND USE LAND COVER CLASSIFICATION USING DEEP LEARNING TECHNIQUES	GARG SANJAY MADANLAL	JAIN SWATI MANISH	Indian Space Research Organisation	COMPUTER SCIENCE & ENG.DEPT.(UG)	20.916	36
19	AUTOMATION OF WATER IRRIGATION SYSTEMS USING WIRELESS SENSOR NETWORKS	OZA PARITA RAJIV	PATEL USHA DINESHBHAI	Nirma University	COMPUTER SCIENCE & ENG.DEPT.(UG)	0.715	11
20	AN EDGE AI BASED VIDEO ANALYTICS FOR 2 WHEELER RELATED TRAFFIC SURVEILLANCE IN UNIVERSITY CAMPUS	POOJA CHATURVEDI	LAVINGIA KRUTI RAJESH	Nirma University	COMPUTER SCIENCE & ENG.DEPT.(UG)	0.95	11
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	ELECTRICAL ENG.DEPT.(UG)	0.956	11
22	DESIGN AND DEVELOPMENT OF CHARGE CONTROLLER FOR BATTERY SYSTEM.	SHAH KAUMIL BHARATKUMAR	AMROLIA HORMAZ Z.	Nirma University	ELECTRICAL ENG.DEPT.(UG)	0.56	11
23	FABRICATION OF BI-DIRECTIONAL CONVERTER FOR VEHICLE-GRID INTERFACE	PATTATH KAPIL N.	THANKACHAN JOSE	Nirma University	ELECTRICAL ENG.DEPT.(UG)	0.46	11

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24	LOW VOLTAGE RIDE THROUGH ENHANCEMENT OF INDUCTION GENERATOR BASED WIND FARMS INCORPORATING FAULT CURRENT LIMITER	MEHTA CHINTAN RAJESHKUMAR	TAILOR TARUNKUMAR RAMESHCHANDRA	Nirma University	ELECTRICAL ENG.DEPT.(UG)	0.7	11
25	DESIGN AND DEVELOPMENT OF PROTECTION SCHEME OF RADIAL TRANSMISSION SYSTEM	KANOJIA SARIKA SANJAY	-- Select --	Nirma University	ELECTRICAL ENG.DEPT.(UG)	0.578	11
26	IMPLEMENTATION OF GRID CONNECTED PHOTOVOLTAIC SYSTEM	BHATT CHANAKYA BHARATBHAI	KARRI V V SATYANARAYANA	Nirma University	ELECTRICAL ENG.DEPT.(UG)	0.9	11
27	DEVELOPMENT OF INTEGRATED WASTEWATER TREATMENT SYSTEMS USING ALTERNATIVE INNOVATIVE APPROACHES OF MICROBIAL FUEL CELLS, MAGNETIC NANOPARTICLES AND	CHAUHAN CHETNA CHATURBHAI	SHAH MANISHA TUSHAR	GSBTM	ELECTRONICS & COMMUNICATION ENG.DEPT.(UG)	48.966	35
28	DEVELOPMENT OF AUTONOMOUS RECONFIGURABLE LOAD CARRIER	MECWAN AKASH ISHUDAS	SHAH DHAVAL GOPALCHANDRA	Gujarat Council on Science and Technology	ELECTRONICS & COMMUNICATION ENG.DEPT.(UG)	17.32	36
29	DEVELOPMENT AND TESTING OF NAVICSUITE: PROCESSING SOFTWARE TOOL FOR NAVIC RECEIVER	GAJJAR SACHIN HARISHBHAI	GAJJAR SACHIN HARISHBHAI	Indian Space Research Organisation	ELECTRONICS & COMMUNICATION ENG.DEPT.(UG)	20.002	24

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30	SYNTHESIS AND CHARACTERIZATION OF HEXAFERRITE SAMPLES FOR HIGH FREQUENCY APPLIANCES	GUPTA TANUJ MANOJ	CHAUHAN CHETNA CHATURBHAI	Nirma University	ELECTRONICS & COMMUNICATION ENG.DEPT.(UG)	0.7	11
31	COVAUXILIARY: A NURSING ASSISTANT ROBOT	SHAH DHAVAL GOPALCHANDRA	MECWAN AKASH ISHUDAS	Nirma University	ELECTRONICS & COMMUNICATION ENG.DEPT.(UG)	1	11
32	EXPERIMENTAL SETUP OF VISIBLE LIGHT COMMUNICATION SYSTEM	SHARMA RACHNA	SHARMA RACHNA	Nirma University	ELECTRONICS & COMMUNICATION ENG.DEPT.(UG)	0.918	11
33	DESIGN AND DEVELOPMENT OF FABRY PEROT CAVITY-BASED FEED CLUSTER	PUJARA DHAVAL AMRUTBHAI	-- Select --	Indian Space Research Organisation	ELECTRONICS & COMMUNICATION ENG.DEPT.(UG)	22.34	24
34	IOT - DRIVEN INTELLIGENT TRANSPORTATION SYSTEM FOR NIRMA UNIVERSITY	TRIVEDI CHANDAN	BHATTACHARYA PRONAYA	Nirma University	INFORMATION TECHNOLOGY ENG.DEPT.(UG)	0.933	11
35	LABMIMO: VIRTUAL WORKBENCH FOR NONLINEAR COUPLED MULTI-INPUT MULTI-OUTPUT PROCESS CONTROL STUDY	PATEL ALPESHKUMAR ISHWARBHAI	-- Select --	Nirma University	INSTRUMENTATION & CONTROLS (UG)	1	11

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36	IOT BASED SMART CART FOR SHOPPING IN SUPER MARKETS	SHUKLA DEEPIKA AJAY	SHAH MONIKA GUNVANTBHAI	Nirma University	M. C. A.	0.61	11
37	SMART DUSTBIN	AGRAWAL SMITA SURESHKUMAR	AGRAWAL SMITA SURESHKUMAR	Nirma University	M. C. A.	0.58	13
38	ASSISTIVE SYSTEM FOR VISUALLY IMPAIRED PEOPLE	KATHIRIA PREETI VIPUL	SAPAN MANKAD HARESH	Nirma University	M. C. A.	0.491	11
39	SMART TRAVELING BAG	GOHIL LATA AMRITLAL	VYAS TARJNI KETANBHAI	Nirma University	M. C. A.	0.83	11
40	A DIGITAL HUMANITIES PROJECT ON STUDY OF PRESENCE AND PROBLEMS OF GENDERED LANGUAGE IN DIGITAL WORLD (COMPUTER MEDIATED COMMUNICATION) WITH SPECIAL	MISHRA RICHA PATANJALI	RAO RATNA VENKATESHWARA	Nirma University	MATHEMATICS & HUMANITIES	1.4	23
41	TOOL WEARING MONITORING USING COMPUTER VISION TECHNIQUES	BAGGA PRASHANT JAGDISHCHANDRA	MAKHESANA MAYURKUMAR ASHWINBHAI	Nirma University	MECHANICAL ENG.DEPT.(UG)	1.98	23

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42	DEVELOPMENT OF AUTONOMOUS RECONFIGURABLE LOAD CARRIER	CHAUHAN MIHIR MAHENDRABHAI	FATANIYA BHUPENDRA DAMJIBHAI	Gujarat Council on Science and Technology	MECHANICAL ENG.DEPT.(UG)	17.325	36
43	STUDY ON VIBRATION ASSISTED HOLE FLANGING USING SINGLE POINT INCREMENTAL FORMING	MAKWANA RUDRESHKUMAR DINESHBHAI	MAKWANA RUDRESHKUMAR DINESHBHAI	Nirma University	MECHANICAL ENG.DEPT.(UG)	0.65	11
44	DESIGN OF A LOCOMOTION MECHANISM FOR THE AMPHIBIOUS ROBOT	MEHTA VISHAL KETANKUMAR	CHAUHAN MIHIR MAHENDRABHAI	Nirma University	MECHANICAL ENG.DEPT.(UG)	0.75	11
45	EXPERIMENTAL STUDY AND CORRELATION DEVELOPMENT OF EROSION WEAR FOR PUMP AS TURBINE	TANDEL ROSHANKUMAR RAMESHCHANDRA	-- Select --	Nirma University	MECHANICAL ENG.DEPT.(UG)	0.7	11
46	MICROWAVE PROCESSING OF METAL MATRIX COMPOSITE (MMC) FOR BIOMEDICAL APPLICATIONS	BHATT SHRUTI CHANAKYA	-- Select --	Nirma University	MECHANICAL ENG.DEPT.(UG)	1	11
47	TO ENHANCE THE QUALITY OF BIO-COAL PREPARED FROM RICE STRAW FOR CO-FIRING IN POWER PLANT	UPADHYAY DARSHIT SHAILESHKUMAR	UPADHYAY DARSHIT SHAILESHKUMAR	Science and Engineering Research Board	MECHANICAL ENG.DEPT.(UG)	18.3	36

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48	SECONDARY FLOW AIDED INERTIAL SEPARATION OF DISCRETE SIZED MICROPARTICLES IN COMPLEX-SHAPED MICROCHANNELS	LAKDAWALA ABSAR MOHAMMADHUSEN	SHAH NIRAJKUMAR KIRITKUMAR	Science and Engineering Research Board	MECHANICAL ENG.DEPT.(UG)	28.637	36
49	SECONDARY FLOW AIDED INERTIAL SEPARATION OF DISCRETE SIZED MICRO PARTICLES IN COMPLEX-SHAPED MICROCHANNELS	SHAH NIRAJKUMAR KIRITKUMAR	LAKDAWALA ABSAR MOHAMMADHUSEN	Science and Engineering Research Board	MECHANICAL ENG.DEPT.(UG)	28.637	36
50	DEVELOPMENT OF RECONFIGURABLE LOCOMOTION MECHANISM FOR AMPHIBIOUS ROBOT	MEHTA VISHAL KETANKUMAR	CHAUHAN MIHIR MAHENDRABHAI	Nirma University	MECHANICAL ENG.DEPT.(UG)	1	11
51	SCREENING OF MATERIALS BASED ON PERFORMANCE OF BIOMASS GASIFIER COOKSTOVE	UPADHYAY DARSHIT SHAILESHKUMAR	CHAUDHARY AMITA	Nirma University	MECHANICAL ENG.DEPT.(UG)	1	11
52	DESIGN AND EXPERIMENTAL INVESTIGATIONS OF HYBRID RENEWABLE ENERGY SYSTEM	MEMON SHEBAZAHEMAD ABDULLATIF	UPADHYAY DARSHIT SHAILESHKUMAR	Nirma University	MECHANICAL ENG.DEPT.(UG)	1	11
53	STRENGTHENING PRECAST BEAM COLUMN CONNECTIONS USING STAINLESS STEEL WIRE MESH (SSWM) - EXPERIMENTAL AND NUMERICAL STUDY	PATEL PARESH VARDHMANDAS	JOSHI DIGESH DILIPKUMAR	Nirma University	PG-CIVIL (CASAD) ENG.DEPT.	28.395	31

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54	EVALUATION OF MECHANICAL PROPERTIES OF GFRP-SSWM HYBRID WRAPS	JOSHI DIGESH DILIPKUMAR	-- Select --	Nirma University	PG-CIVIL (CASAD) ENG.DEPT.	1	11
55	DEVELOPMENT OF A VISION BASED MULTI DEGREE OF FREEDOM SERIAL MANIPULATOR FOR PATIENTS SUFFERING FROM NEUROLOGICAL DISORDER AND INFECTIOUS DISEASES (COVID-	TRIVEDI REENA RAJANIKANT	DAVE JATINKUMAR MAHESHKUMAR	Gujarat Council on Science and Technology	PG-MECHANICAL (CAD/CAM)ENG. DEPT.	16.5	24
56	DEVELOPMENT OF REMOTELY OPERATED STRUCTURE CLIMBING ROBOT WITH CAMERA FOR TELECOM TOWER INSPECTION	DAVE JATINKUMAR MAHESHKUMAR	SHAH DARSHITA JIGAR	Nirma University	PG-MECHANICAL (CAD/CAM)ENG. DEPT.	1	11