

### MECHANICAL ENGINEERING

Sl.No	Name of Principal Investigator	Title of the Project	Name of College	Amount sanctioned	First Installment	Second Installment	Consumables	Equipments	Travel	Contingency
1	Dr. Aneesh Kumar P Assistant Professor	Micro-structural evolution during rolling and joining of 5A - niobium stabilized duplex stainless steel.	NSS College of Engineering Palakkad	200,000	150,000	50,000	22,000	155,000	8000	15,000
2	Dr. Anand Sekhar R Assistant Professor	Fine grained Al-Nb-Ta-Ti-Zr Refractory High Entropy Alloys processed through powder metallurgy route: Analysis of phase evolution and properties.	TKM College of engineering Kollam	190,000	125,000	65,000	30,000	140,000	10,000	10,000
3	Ajimshad A Assistant Professor	Thermo-structural investigations on ionic liquid modified carbon fiber epoxy composites in a cryogenic environment	TKM College of engineering Kollam,	190,000	125,000	65,000	30,000	130,000	10,000	20,000
4	Dinu George Assistant Professor	Experimental Investigation of a Photo-Voltaic Thermal (PVT) Collector Integrated Mixed Mode Drying System with PCM based Thermal storage for drying of Cassava.	St. Joseph's College of Engineering and Technology, Palai.	110,000	75,000	35,000	20,000	70,000	10,000	10,000
5	Eldho Paul Assistant Professor	Experimental investigation on combined effect of dynamic hot wire feeding and geometric configuration on a TIG welding process.	Mar Athanasius College of Engineering Kothamangalam	200,000	150,000	50,000	10,000	174,000	8000	8000
6	Jeffin Johnson Assistant Professor	Development of Strontium based A17075-WC composite and the investigation on the enhancement of characteristics of Automobile and Aerospace components by the effect of Friction stir and Extrusion processes	Rajagiri School Of Engineering And Technology, Ernakulam	170,000	120,000	50,000	33,000	110,000	10,000	17,000

7	Jithin P N Assistant Professor	Numerical and experimental study on the aerodynamic characteristics of shape optimised airfoils for generating flight worthy adaptive wings for UAV	Rajagiri School of Engineering & Technology, Kochi	163,100	110,000	53,100	13,100	125,000	10,000	15,000
8	Dr. MANU REMANAN Assistant Professor	Hybrid nano composites based on Acrylonitrile Butadiene Styrene (ABS), Aluminium Nitride Nanoparticles & Multiwalled Carbon Nanotubes for Automotive and Industrial applications: Mechanical, Thermal, Wear & Microstructural analyses	Saintgits College of Engineering Pathamuttom P.O.. Kotlayam	116,000	80,000	36,000	23,000	70,000	11,500	11,500
9	Sailesh K S Assistant Professor	Synthesis and Characterization of Surfactant-Modified Hybrid Catalytic Nanoparticles and its Application as Fuel Additives in Four-Stroke Diesel Engine fueled by Diesel Blended with Biodiesel derived from Coconut Oil for Sustainable and Eco-Friendly Future	Saintgits College of Engineering	79,000	65,000	14,000	17,000	45,000	8500	8500
10	Dr. Vishal John Mathai Assistant Professor	Study on application of Tapioca Starch Slime as a carrier medium for Abrasive Flow Finishing of EDMed surfaces.	Amal Jyothi College of Engineering	83,000	60,000	23,000	25,000	15,000	8000	35,000

## ELECTRONICS AND COMMUNICATION ENGINEERING

Sl.No	Name of Principal Investigator	Title of the Project	Name of College	Amount sanctioned	First Installment	Second Installment	Consumables	Equipments	Travel	Contingency
1	Dr. Arun P Associate Professor	COVBOT -An IoT based intelligent wall mount multi-functional screening system	St. Joseph's College of Engineering & Technology, Palai	40,000	20,000	20,000	5,000	20,000	5,000	10,000
2	Binson V A Assistant Professor	Analysis of human exhaled breath volatile organic compounds using electronic nose system for pulmonary diseases	Saintgits College of Engineering, Kottayam	80,000	40,000	40,000	15,000	45,000	10,000	10,000
3	VINOJ P G Assistant Professor	Brain Actuated Assistive Technology for the paralyzed	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY	75,000	50,000	25,000	15,000	40,000	10,000	10,000
4	Ajith Ravindran Assistant Professor	Investigation towards the use of Spectroscopic Techniques and Chemometrics in the Rapid Identification of Coconut Oil Adulteration	Saintgits College of Engineering, Kottayam	45,000	25,000	20,000	20,000		10,000	15,000
5	AJAY KUMAR Associate Professor	IoT Based Smart Environmental Monitoring and Controlling System	Adi Shankara Institute of Engineering and Technology, Kalady	50,000	30,000	20,000	10,000	25,000	5000	10,000
6	Dr. Bipin P R Associate Professor	Development of a Contactless Fog Computing based System for COVID'19 Detection and Continuous Cardiac Health Monitoring using Deep Learning	Adi Shankara Institute of Engineering and Technology, Kalady	55,000	35,000	20,000	10,000	25,000	10,000	10,000

### ELECTRICAL AND ELECTRONICS ENGINEERING

Sl.No	Name of Principal Investigator	Title of the Project	Name of College	Amount sanctioned	First Installment	Second Installment	Consumables	Equipments	Travel	Contingency
1	Sherin Joseph Assistant Professor	Design and development of a High Frequency Transformer	College of Engineering Chengannur	200,000	120,000	80,000	40,000	120,000	20,000	20,000
2	Amalu Philip Assistant Professor	Development of high speed localized protection scheme for DC ring microgrid.	Saintgits college of Engineering, Kottayam.	115,000	70,000	45,000		45,000	10,000	60,000 (including 50,000 for testing)
3	Haseena A Assistant Professor	Development of Stable Nano Fluid for Transtormer Insulation	RIT Kottayam	200,000	120,000	80,000	15,000	180,000	5000	
4	Prathibha P K Assistant Professor	Parametric modeling and analysis of electric vehicle (EV) for optimized performance	Rajagiri School of Engineering and Technology	140,000	85,000	55,000	36,000	90,000	4000	10,000
5	Jim George Assistant Professor	Design and Implementation of Robust controller for the maneuver of Under Actuated System	Muthoot Institute of Technology and Science	50,000	30,000	20,000	10,500	22,750	7000	9750

### CIVIL ENGINEERING

Sl.No	Name of Principal Investigator	Title of the Project	Name of College	Amount sanctioned	First Installment	Second Installment	Consumables	Equipments	Travel	Contingency
1	Y K Remya Assistant Professor	Geometric design consistency evaluation criteria for two lane rural combined curves based on vehicle lateral stability	SCMS School of Engineering and Technology	120,000	60,000	60,000	55,000		5000	60,000
2	Cherian C K Assistant Professor	Design Catalogues for Emulsion Treated Base Layers	Saintgits College of Engineering Kotlayam	90,000	50,000	40,000	30,000	40,000	10,000	10,000
3	Panjami K Assistant Professor	Mapping of soil piping susceptible areas using integrated geophysical approach.	Federal institute of Science and Technology, Angamaly	175,000	100,000	75,000	30,000	5,000	25,000	115,000

### COMPUTER SCIENCE & ENGINEERING

Sl.No	Name of Principal Investigator	Title of the Project	Name of College	Amount Sanctioned	First Installment	Second Installment	Consumables	Equipments	Travel	Contingency
1	Poorna B R Assistant Professor	Healthcare recommender system using hybrid filtering technique	Mar Baselios College of Engineering and Technology Trivandrum	100,000	75,000	25,000	20,000	70,000		10,000
2	Vidya K R Assistant Professor	Development of an Advanced Image Forgery Detection System for supporting Cyber Forensics in Kerala	Saintgits college of Engineering, Kottayam.	90,000	70,000	20,000	15,000	70,000		5,000
3	Jestin Joy Assistant Professor	Investigating the effectiveness of gesture based learning framework for deaf students	Federal Institute of Science And Technology (FISAT)	80,000	55,000	25,000	15,000	50,000	5,000	10,000
4	Susmi Jacob Assistant Professor	ContextAuth – An implicit Authentication system for Smartphones	SCMS School of Engineering & Technology	75,000	55,000	20,000	20,000	50,000		5,000
5	Dr. Deepika M P Associate Professor	Two in One System for Baby Diaper and Sanitary Napkin Disposal.	Adi Shankara Institute of Engineering and Technology	95,000	70,000	25,000	30,000	46,000	4,000	15,000
6	Dr.Lizy Abraham Assistant Professor	WESAT - Development of a Payload for the Comparison of Solar Irradiance and UV Index Measurements at Space with respect to the Monitoring Station at LBSITW Campus in Thiruvananthapuram City	LBS Institute of Technology for Women	200,000	150,000	50,000	30,000	150,000	10,000	10,000
7	Rakhee M Assistant Professor	Blockchain Based Framework for Enhancing Trust During Various Phases of Research Publication	Muthoot Institute of Technology and Science,	50,000	30,000	20,000	8,000	30,000	4,000	8,000

### CHEMICAL ENGINEERING

Sl.No	Name of Principal Investigator	Title of the Project	Name of College	Amount sanctioned	First Installment	Second Installment	Consumables	Equipments	Travel	Contingency
1	Dr. Vishnu M Assistant Professor	Adsorptive removal of trivalent and pentavalent arsenic from aqueous solution using Ilmenite rich sand.	Amal Jyothi College of Engineering Koovappally PO Kanjirappally	118,000	70,000	48,000	40,000	38,000	20,000	20,000
2	Dr. Lisha K P Assistant Professor	Development of nanoscale manganese dioxide based filter system for the removal of iron contamination from water	Saintgits College of Engineering, Kottayam	105,000	75,000	30,000	30,000	45,000	15,000	15,000
3	Priwiya Peter Assistant Professor	Development of polypropylene based carbon fabric/carbon nanotube composite sheets for automobile applications	Saintgits College of Engineering, Kottayam	140,000	90,000	50,000	40,000	60,000	20,000	20,000

**BASIC SCIENCE**

Sl.No	Name of Principal Investigator	Title of the Project	Name of College	Amount sanctioned	First Installment	Second Installment	Consumables	Equipments	Travel	Contingency
1	Dr. Reenu Elizabeth John Assistant Professor	Enhanced microwave absorption of carbon allotrope polymer composite through improved electric and magnetic properties	Saintgits College of Engineering, Kottayam	75,000	50,000	25,000	35,000	15,000	10,000	15,000
1	Dr. Sona Narayanan Assistant Professor	Development of Thiophene based Copolymers for Photovoltaic Applications	Federal Institute of Science and Technology	75,000	50,000	25,000	30,000	15,000	15,000	15,000