

A P J Abdul Kalam Technological University
List of Research Seed Money Projects selected for funding

MECHANICAL ENGINEERING

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	1st INSTALMENT	2nd INSTALMENT
1	Pradeep P V Assistant Professor	Additive Manufacturing of biodegradable and photocurable elastomer and polymer-based composites.	St.Joseph's College of Engineering & Technology Palai	140,000	80,000	60,000
2	Richu Zachariah Assistant Professor	Development of a 24/7 solar dryer for domestic applications.	Amal Jyothi College of Engineering	70,000	60,000	10,000
3	Dr.Kiran jJoy Irimpan Associate Professor	Needleless drug injector	Adi Shankara Institue of Engineering & Technology,Ernakulam	131,000	60,000	71,000
4	Dr.Sajeesh P Assistant Professor	Development of an innovative evacuated tube heat pipe solar water heating system.	NSS College of Engineering Palkkad	200,000	140,000	60,000
5	Thomas Jacob Assistant Professor	Design,fabrication and performance analysis of deciccant based evaporative cooler for humid climates.	Mar Athanasius College of Engineering Kothamangalam	185,000	150,000	35,000
6	Dr.Mubarak Ali M Assistant Professor	Direct solar heating aided vacuum bag curing process of glass fibre reinforced composite laminates.	TKM college of Engineering, Kollam	163,000	90,000	73,000
7	Dr.Sabarinath S Assistant Professor	Characterization and formulation of an environment friendly lubricant from Pongamia (Millettia Pinnata) oil using biodegradable additives.	SAINTGITS College of Engineering, Kottayam	133,000	80,000	53,000
8	Shiblemon K V Assistant Professor	Investigations on Heat Transfer Enhancement in Micro Channel Heat sinks.	St.Joseph's College of Engineering & Technology Palai	135,000	85,000	50,000

9	Dr. Trijo Tharayil Associate Professor	Concrete roof cooling using nanoparticle coated heat pipes for sustainability.	Sree Buddha College of Engineering , Pattoor	200,000	140,000	60,000
10	Anooplal B Assistant Professor	Phase change material (PCM) based Thermal Management of Li-ion Battery:An experimental investigation.	St.Joseph's College of Engineering & Technology Palai	120,000	60,000	60,000
11	Rittin Abraham Kurien Assistant Professor	Experimental Investigations on Nano-based Natural Fibre Composites for Commercial Applications:Development, Mechanical and tribological Property Estimation.	SAINTGITS College of Engineering, Kottayam	178,000	100,000	78,000

CIVIL ENGINEERING

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	1st INSTALMENT	2nd INSTALMENT
1	Sreedevi A R Assistant Professor	Shear Behaviour of reinforced concrete beams using treated recycled concrete aggregate and steel fibres.	College of Engineering Trivandrum	80,000	50,000	30,000
2	Romana Mariyam Rasheed Assistant Professor	Evaluation of fatigue strength and durability of fibre reinforced lime stabilized Kuttanad soil.	TKM college of Engineering, Kollam	200,000	180,000	20,000
3	Sai Niveditha M G Assistant Professor	Evaluation of Interface Shear Strength of Bituminous Layers.	TKM college of Engineering, Kollam	200,000	180,000	20,000
4	Athul M Madhu Assistant Professor	Development of Trophic State Index for freshwater and brackish lake ecosystems of Southern Kerala.	TKM college of Engineering, Kollam	200,000	175,000	25,000
5	Regi P Mohan Assistant Professor	Nano Chemical Stabilization of expansive Kuttanad Clays.	Sree Buddha College of Engineering, Pattoor	200,000	160,000	40,000
6	Hannna Paul Assistant Professor	Effect of Interference of Embankments when subjected to Loading.	SAINTGITS College of Engineering, Kottayam	140,000	100,000	40,000

7	Dr.Nimi Ann Vincent Assistant Professor	A Study on Potential Utilization of MICP on Weak Solids and A Preliminary Investigation on Application of MICP in Stabilisation of Foreshore Slopes.	Amal Jyothi College of Engineering	32,000	26,000	6000
8	Rejoice Aleyamma Abraham Assistant Professor	Influence of stabilizer on soil curling phenomena	RIT Kottayam	155,000	140,000	15,000

ELECTRICAL AND ELECTRONICS ENGINEERING

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	1st INSTALMENT	2nd INSTALMENT
1	Anjali Anand K Assistant Professor	Design and development of a reliable Cascaded H-bridge multilevel inverter-fed induction motor drive.	GCE Kannur	200,000	150,000	50,000
2	Peter K Abraham Asst Professor	Ultracapacitor based range Extender for Electric Vehicle.	RIT Kottayam	185,000	125,000	60,000
3	Jasna Basheer Assistant Professor	PV based Open well submersible sensor less BLDC Motor drive.	College of Engineering Perumon	116,000	80,000	36,000
4	Vijayasree G Assistant Professor	Design and Implementation of an Intelligent Fault Diagnosis System for multi phase PMSM.	College of Engineering Trivandrum	155,000	90,000	65,000
5	Dr.Shihabudheen K V Assistant Professor	High impedance fault detection using Wavelet transform.	TKM College of Engineering Kollam	169,000	100,000	69,000
6	Jineeth Joseph Assistant Professor	Development of an online monitoring scheme for partial discharge detection in transformer windings.	Saintgits College of Engineerig Kottayam	120,000	90,000	30,000
7	Elizabeth Rajan Assistant Professor	Harmonic reduction in Solar Photo Voltaic System using packed U cell Multilevel Inverter.	Saintgits College of Engineerig Kottayam	115,000	75,000	40,000

ELECTRONICS AND COMMUNICATION ENGINEERING

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	1st INSTALMENT	2nd INSTALMENT
1	Darsana.S Assistant Professor	Nondestructive real time monitoring of nitrate in water using mobile phone	College of Engineering Chengannur	200,000	180,000	20,000
2	Anuroop K B Assistant Professor	Implementation of a Deep learning based Waste segregation system using Computer vision and Robotics.	Adi Shankara Institue of Engineering & Technology, Ernakulam	184,500	130,000	54,500
3	Arya Paul Assistant Professor	Development of a smart portable IoT device for better diagnosis and control of asthma and COPD.	Adi Shankara Institue of Engineering & Technology, Ernakulam	168,662	110,000	58,662
4	Michael George Assistant Professor	An automated video surveillance system using deep learning.	RIT Kottayam	200,000	190,000	10,000
5	Sreelekshmi S Assistant Professor	Design and Development of a Wearable Antenna for Non-Invasive Glucose Monitoring	ToC H Institute of Science & Technology, Ernakulam	72,500	52,000	20,500
6	Neethu George Assistant Professor	AI Based Smart Irrigation System.	ToC H Institute of Science & Technology, Ernakulam	49,000	40,000	9000
7	Deepak S Assistant Professor	Computer aided diagnosis and characterization of brain tumors.	GEC Idukki	150,000	135,000	15,000
8	Shihabudeen H Assistant Professor	Deep learning based Fusion on infrared and visible images for intelligent traffic management in smart cities.	College of Engineering Kidangoor	158,000	130,000	28,000

9	Dr.Rahul Antony Associate Professor	Design and Development of a Temperature Controlled Micro Chamber with precise monitoring and control for Lab-on-chip applications using MEMS.	Saintgits College of Engineerig Kottayam	180,000	110,000	70,000
10	Sreerag M Assistant Professor	Isolation Enhancement in multi antenna systems used for 5G systems using metamaterials.	Adi Shankara Institue of Engineering & Technology, Ernakulam	192,000	160,000	32,000

COMPUTER SCIENCE AND ENGINEERING

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTI ONED	1st INSTALM ENT	2nd INSTALME NT
1	Dr.Arathi T Assistant Professor	Deep Learning based Optimized Computer Aided Detection for Retinal Disease Screening	LBS College of Engineering, Kasaragod	100,000	80,000	20,000
2	Meharban M S Assistant Professor	Medical Image Synthesis Using Deep Learning	Rajagiri School of Engineering and Technology, Ernakulam	50,000	40,000	10,000
3	Alphonsa Johny Assistant Professor	Efficient Big Data Procesing Technique	St.Joseph's College of Engineering & Technology Palai	60,000	45,000	15,000
4	Dr.Anju Pratap Associate Professor	Nightingale:Technology enabled portable assist system for nurses in Kerala.	SAINTGITS College of Engineering, Kottayam	50,000	35,000	15,000

CHEMICAL ENGINEERING

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTI ONED	1st INSTALM ENT	2nd INSTALME NT
1	Saurabh Sahadev Assistant Professor	Adsorption studies using chitosan based nanosurbants.	GEC Thrissur	180,000	50,000	130,000

2	Adil Muhammed Assistant Professor	Cost effective Packed bed column with zinc oxide coated regenerated spent FCC catalyst system for the water treatment.	GEC Kozhikode	200,000	70,000	130,000
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BIOTECHNOLGY

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	1st INSTALMENT	2nd INSTALMENT
1	Dr.Jaya Mary Jacob Assistant Professor	Development of biogenic carbon quantum dot based smart nanobionic systems for enhanced photosynthetic CO2 reduction	Sree Buddha College of Engineering , Pattoor	180,000	80,000	100,000

ARCHITECTURE

SL NO	NAME OF PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	1st INSTALMENT	2nd INSTALMENT
1	Smitha M V Assistant Professor	An Assessment of Vulnerability of Fishermen community towards coastal hazards.	CET	200,000	150,000	50,000

Sanction order will be issued separately for each project.

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