

A P J Abdul Kalam Technological University
List of Student Projects Selected for funding

CIVIL ENGINEERING

S I N O	Principal Investigator	Student Investigator	Project Title	Institute	Amount
1	Dr.Vinish V Nair Asst. Professor	Akhil J P V Anju Anand U S Greeshma S Vijayan Sulthan Abdul Salam	Desalination using modified solar still.	RIT Kottayam	40,000
2	Dr.Jiji Anna Varughese Asso. Professor Anu Thankappan (Co-Investigator)	Ananthan K Narayanan Bikhil P Sreejith R Visakh S	Development of compressive behaviour model for masonry	GEC Barton Hill	15,000
3	Dr.Elson John Asso. Professor	John Kurian Veliyath Amrutha Sivan liya Mary P L Leanda J Payyappilly	Study on the effectiveness of shrinkage reducing admixture on the properties of concrete with and	MACE Kothamangalam	30,000
4	Dr.Nowshaja P.T Professor	Abdul Bari Akhil.K Anjima C.S Sobhin Raghavan	A novel and cost effective method for characterization of rheological behavior of	GEC Thrissur	50,000
5	Dr.Raji M Asst. Professor KiranC.J Asst. Professor (Co-Investigator)	Abdullah Faizy S Ananthu Krishnan R.K Nayana Sam Shilpa Mary Sam	Assesment of behaviour of bamboo as a truss memberr	GEC Bartonhill	37000

6	Dr.Jayasree P K Asso. Professor	Amalroy Thomas Fathima R Lekshmi A.S Parvathy A.S	Biosolid bricks for a sustainable future.	CET	44000
7	Jithin Kurian Andrews Asst. Professor Dr.Reebu Z Koshy (Co-Investigator)	Alen Mathew Amal Chandra Alfy Ann Joseph Anagha V	Automated Pothole Sealer	Saintgits College of Engineering, Kottayam	25000

8	Sreelekshmy Pillai G Asst. Professor Dr.Sudha V (Co-Investigator)	Ajay Prasad Akhila R Anishma M.S K Rakesh	Manufacturing of bricks using flood deposited clay.	NSS College of Engineering Palakkad	18000
9	Rejani V.U Asst. Professor Dr.A.K.Raji (Co-Investigator)	Rakhi Ramesh Reshma V P Sreeja C V Sruthilaya M	Study on utilization of demolition waste and soil deposited due to flood in road constructon.	NSS College of Engineering Palakkad	37000
10	P.Muthulakshmi Prof & HOD Dr.M.Satyakumar (Co-Investigator)	R.Ananth Krishnan Joelene Godwin Gopika Thampi Amal Babu	Product design and fabrication of perforated interlocking concrete paver	Mar Baselios College of Engineering and Technology, TVM	22500
11	Dr.Wilbert R Asst. Professor Divya Chandran (Co-Investigator)	Arya S Kannan Binusree K.S Sadiya S.N Sreelakshmi K.S	Flow simulation studies under varying reynolds number	GEC Bartonhill	33000

1 2	Dr.Balu E George Asst. Professor Eldhose M Manjummekkudiyil (Co-Investigator)	Adhil P Anjana A Bini Raj B.G Damian J Wilson	Slope subsidence:Evaluation of reasons and suggestion of rectification.	MACE Kothamangalam	28500
1 3	M V Varkey Asst. Professor Dr.Mini Mathew (Co-Investigator)	Rohit Das Merin Mariam Thomas Megha Mohan Sneha Raju	SANI RAIL(Sanitation in railways)	Amal Jyothi College of Engineering Kottayam	22000
1 4	Dr.Bharati Raj Asso. Professor	Abhirami A Kumar Aiswarya J B Anakha M Nair Benita P J	Use of flex fibre in self compacting concrete.	Marian Engineering College, TVM	19000
1 5	Dr.Jayamohan J Professor Radhika P Nair (Co-Investigator)	Ardra Liju Fairiya.E.B Manasi A S Renu S	Behaviour of footings with non rectangular cross section.	LBS Institute of Technology for Women,TV M	18000

COMPUTER SCIENCE & ENGINEERING

S I N O	Principal Investigator	Student Investigator	Project Title	Institute	Amount
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1	Shibu Kumar K.B Asst. Professor	Ebey Abraham Akshatha Nayak Ashna Iqbal Krishna Madhu	Gesture Sensing Gloves for Real Time Translation of Indian	RIT Kottayam	31000
2	Dr.Suekha Mariam Varghese Professor Neethu Subash (Co-Investigator)	Mathews Joseph Abhinav T K Ashlay Cyriac	Autonomous fruit plucker.	MACE Kothamangalam	50000

3	Dr.Ajeesh Ramanijan Asst. Professor Vipin Vasu A V (Co-Investigator)	Rohith P Sarath Sreedhar Mohammed Shiraz A K Anashka Naina U	Context identification for personal assisted guidance.	CET	50000
4	Dr.Sobhana N V Professor	Abhishek Singh	Automation of gate closing and anti collision system in Indian	RIT Kottayam	30000
5	Manoj Ray D Asso. Professor Remya R S (Co-Investigator)	Abdul Jaleel K P Abhijith S Ambujakshan Nair Akhildev C S	Smart electronic voting machine with Uid and biometric security.	College of Engineering Karunagappally	30000
6	Dancy Kurian Asst. Professor Syama S R (Co-Investigator)	Abhilas A S Abhinand N S Nikhil K R Parameswaran S	Cashierless shopping model assisted with voice.	College of Engineering Attingal	19000
7	Ajith S Asst. Professor	Afsal K A Alvin Chris Antony	Smart tic-tac-toe board for	Rajagiri School of Engineering and	11500
8	Sreela Sreedhar Asso. Professor Abin Oomen Philip (Co-Investigator)	Harikrishnan Vijayan Roshan Josey Sankar P G Sreehari N P	Cooperative vehicle platooning using machine learning and computer vision.	TOC H Institute of Science and Technology, Arakkunnam	20000
9	Ria Mathews Asst. Professor Nithin Prince John (Co-Investigator)	Jilu D Kumar Jinson Joseph Jeffin Thomas Jithu K Mathew Antony	Intelligent speech impairment aid.	Saintgits College of Engineering, Kottayam	7000

CHEMICAL ENGINEERING

S I N o	Principal Investigator	Student Investigator	Project Title	Institute	Amount
1	Dr Subin Paulose Asst. Professor	Aishwarya P Nambiar Kiran A S Mohammed Unais C P Steve Roy	Preparation, stabilization mechanical properties evaluation thermal analysis property enhancement and fabrication of silver link for inkjet printing	GEC Thrissur	40000
2	Dr. Usha K M HOD & Prof Shijina S S Asst. Professor (Co-Investigator)	Akhila Krishnan C Shilpa K Nayana Shilpa Raj S	Design of a water disinfection system using silver and copper nanoparticles impregnated coconut shell waste carbon	Mohandas College of Engg & Technology	26000

ELECTRONICS & COMMUNICATION ENGINEERING

S I N o	Principal Investigator	Student Investigator	Project Title	Institute	Amount
1	Linu Shine Asst. Professor	Akhil Sanjaya Kumar Hariharan G Sanoj P	FPGA Implementation of Chatbot using Deep-Neural Networks	College of Engineering Trivandrum	23500

2	Joaquim Ignatious Monteiro Asst. Professor	Azeem K Arjun Udayabhanu Luthif Unnimoyin P.K	Water quality monitoring using LoRa open-IoT system.	College of Engineering Trivandrum	47000
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3	Kiran R Asst. Professor	Amritha P Anoop R Krishnan Goutham Krishna B S	Spatial mapping and autonomous navigation of a drone	College of Engineering Trivandrum	34000
4	Ebin M Manuel Asst. Professor	Don Dominic Yadu Krishnan	Automobile usage profiler Integrated with Audio based Safety System using Deep Learning	College of Engineering Trivandrum	45000
5	Beena A O Asst. Professor RoshniOommen (Co-Investigator)	Riya Thomas Maria Rose James	Smart Braille Printer	Saintgits College of Engineering	22000
6	JerrinYomas Asso. Professor Lakshmy S (Co-Investigator)	Adarsh S Kumar Bhavana Rajeev Namitha Teresa Jose Nived Rajeev	Assistive wearables for disabled people using dopler radar.	VimalJyothi Engineering College, Kannur	18640
7	Dr. Jessy John Head of Department	Amrutha S Kumar Anjali Murali N. Madhurima N. Rajalakshmi	Acquisition and Processing of Vibroarthrographic signals to study gender and age dependent differences and to classify normal and abnormal signals.	Model Engineering College	33000

8	Dr.Aji Joy Asso. Professor Prof. Jiss Paul (Co-Investigator)	Dinoy Johny Arya Saji Jees Paul Vargheses R PrakashRao	Portable Equipment to Diagnose Haematic Infection using Absorption	MACE Kothamangalam	42000
9	Dr.Venugopal G Asso. Professor Retheep Raj (Co-Investigator)	Arathi R Deepika P Maya T	Wireless intravenous bottle monitoring system for hospitals.	NSS College of Engineering Palakkad	45000

1 0	Athira Prasad Asst. Professor	Mathew Varghese AmeerFayizKaith aka th	IoT& PLC based smart home system with PV inverter an blockchain based energy trading	MACE Kothamangalam	39000
1 1	Dr.Georgina Binoy Joseph Asso. Professor Dr.Deepa Elizabeth George (Co-Investigator)	Naveen M Sachithananda Pai V.G Saurav B SreehariJayaraj	Portable Malaria Rapid Diagnostic Device(PMRD D)	Toc H Institute of Science & Technology	32500
1 2	Dr.Ansal K A Asso. Professor Dr.RiboyCherian (Co-Investigator)	Roshini K Rajan Mithu Mariam Cherian Reshma V R Dana Mariam Jacob	Minimization of radiation effects of mobile antennas by EBG structures	Saintgits College of Engineering	32500
1 3	Minimol B Asso. Professor	Bilu Soman Mohamed Dhanish Nanditha Sabu Vinay Jose Baby	Portable device for Pain intensity detection using Bio signal monitoring	Model Engineering College	44000

1 4	Anila P V Asst. Professor Basil J Paul (Co-Investigator)	Athul R M Aswathi M P KavyaRaveendran Sreelakshmi S	High Gain Antenna with Metamaterials superstrate	MACE Kothamangalam	35000
1 5	Albins Paul Asst. Professor Ajay Kumar (Co-Investigator)	Harikrishnan S Joseph George Jwala S Sandeep	HAUY-A Braille Assist	AdiShankara Institute of Engineering and Technology Kalady.	26500
1 6	Neema M Asst. Professor Dr. K Venugopal (Co-Investigator)	Krishna Prasad Sajith P S Lakshmi Madhu Priya P N	Multiple Eye Diseases Detection using Deep Convolutional Neural Network	AdiShankara Institute of Engineering and Technology Kalady.	23900
1 7	Arun R Chandran Asst. Professor Muhammed Ameen (Co-Investigator)	Christeena Stanly Divya Jayan Madhuri Madhu Shiji P Varghese	Human Detection Origami Robot	College of Engineering Kidangoor	28000

1 8	Anju Rose Tom Asst. Professor Sruthi S (Co-Investigator)	Akshaya L K Albin Cyriac Joy Amal Raju Nithya K John	Detection Disordered Breathing and Limb Movement Using In-Bed Force Sensors and Snore Pattern Identification	Model Engineering College	37000
1 9	Hari.C. V Asst. Professor Aparna George (Co-Investigator)	Aakash U R Clint K Varghese Rithvick Abraham Rajesh Sudeeptha M S	Space Efficient Automated Packaging System (SEAPS)	Rajagiri School of Engg. & Technology	30500

20	AnilaKuriakoseAsst. Professor HarshaAppukuttan (Co-Investigator)	Rajasree R Menon Sultana Najeeb Swetha N Prabhu Treesa Angel George	Antenna Design for UWB through the Wall Radar Imaging	Rajagiri School of Engg. & Technology	20000
21	Philip CherianAsso. Professor Varsha P S (Co-Investigator)	Sreejith K Induja.S PavithraNath	MINDZO:A Brain Controlled Wheelchair	College of Engineering Chengannur	20000
22	Surjith S Asst. Professor Remya Elizabeth Philip (Co-Investigator)	Nihad E U Nithin B G	360degree smart Helmet	College of Engineering Perumon	39000

ELECTRICAL AND ELECTRONICS ENGINEERING

S I N O	Principal Investigator	Student Investigator	Project Title	Institute	Amount
1	Dr.V R Jisha Asso. Professor Ajith R R (Co-Investigator)	Aaron Xavier Amritha Rajeev Anoop K R Ganesh S	Design of biped robot.	College of Engineering Trivandrum	50000
2	Dr.J S Savier Professor Vaisakh J B (Co-Investigator)	Anjana Krishnan Anandhu Sasidharan Arjun Anilkumar Ajay Santhosh	Mind controlled lift assist for paralysed people.	College of Engineering Trivandrum	50000

3	Dr.Maya Devi N Asso. Professor Jaimon Cletus (Co-Investigator)	Akhil K N Swanoop A Soman Jishnu Surendran P Bidhun K	Design and fabrication of a portable electronic component extractor for e waste-mobile phones.	College of Engineering Trivandrum	50000
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4	Dr.Imthias Ahammed T P Professor Muhammed Ali Shafeeque (Co-Investigator)	Don Kurian Irene Tenison Jerin Sam Rajan Rahul P Bharathan	Autonomous car based on computer vision using raspberry pi. Continuous life	TKM College of Engineering, Kollam	35000
5	Deepa M U Asst. Professor	Aravind Sankar John Benny Fathima Samrin Sebastian Joseph	cycle evaluation of Li-ion batteries used in hybrid vehicles.	College of Engineering Trivandrum	25200
6	Rani Chacko Asst. Professor	Saira Philip Liss Abraham Maret	Advanced DSM System for DC	Amal Jyothi College of	35000
7	Baiju R Naina Asst. Professor Muhammedali Shafeeque (Co-Investigator)	Anita Maria Sunny Arjay J Mohammed Ali Sajid Nabeel Mohammed	Low voltage Direct current supply for home appliances using Photovoltaic cells.	TKM College of Engineering,K olla m	33000
8	Dr. Vasanthi V Asso. Professor	Harikrishnan E Lavanya V Haritha T R	Forecasting of Wheel Clogging by continuos	NSS College of Engineering Palakkad	28000
9	Dr.Bos Mathew Jos Professor Prof.Eldhose K A (Co-Investigator)	Deepak Rajan Sarath P Raju Vijith K C Vivek Babu Jacob	Development of a Plu-in Series Hybrid Electric Vehicle with Range Extension	MACE Kothamangalam	46000
1 0	Fathima Salim Asst. Professor Sunila S (Co-Investigator)	Jebin James Praveen Zacharia Aswathy R Pillai Bijith K M	Microcontroll er based gesture to voice conversion for deaf and dumb.	College of Engineering Pathanapuram	28000

1 1	Dr.Rajeev T Asst. Professor	Arjun R Nair Blessen M C Edwin P J George Mathew	Wireless charging of electric vehicles.	College of Engineering Trivandrum	39000
1 2	Divya N A Asst. Professor	Sujith Sumanam Lekshmi S Nair	IoT enabled Solar Street lighting	Mar Baselios College of	43300
1 3	Dr. Indu P Nair HoD	Vishnu V Dev Aravind K R Susmith J J Vishnu P M	Beta Wheelchair	College of Engineering Kidangoor	27500

1 4	Abjhasree S S Asst. Professor Anas S R (Co-Investigator)	Amalnath M Mahandh M Rahul H Muhammed Jazeeludeen	Rubber seed extracts as an insulating oil for high voltage equipments.	College of Engineering Pathanapuram	26000
1 5	Riya Joy Asst. Professor	Arundathi Das Arya E	Power generation in highway using	Vimal Jyothi Engineering	41000
1 6	Anith Krishnan Asst. Professor	Abhinand K A Anandhu Satheesh R Nanadu Sanju Sam	Electric Bike	College of Engineering Kidangoor	33000
1 7	Saina Deepthi Asst. Professor	Aishwarya Bose Blesson Justin J B Ganesh Sankar S Aravind S Narayan	Robotic vehicle for the integral development of differently abled children.	College of Engineering Trivandrum	32500
1 8	P S Shenil Asso. Professor	Nandhini K Princy M K Rekha T Revathi J	Projection on inductive wireless power transfer for electric vehicle.	College of Engineering Trivandrum	22000

MECHANICAL ENGINEERING

S I N O	Principal Investigator	Student Investigator	Project Title	Institute	Amount
1	Dr.Lijo Paul Asso. Professor	Vimal John Tony K R Tom Martin	3D printer filaments from waste plastics.	St.Joseph's College of Engineering and Technology Kottayam	50000
2	Dr.N Asok Kumar Professor	Joseph Paul Mohammed Hashir Rohith Punnen Shameem N	Battery thermal management for electric vehicles.	CET	50000
3	Vinay Mathew John Asst. Professor Harinarayanan Nampoothiri M G (Co-Investigat or)	Jacob George Harish M	Safe drive tech	Saintgits College of Engineering Kottayam	36286

4	Mathews Joseph Asso. Professor George John (Co-Investigator)	Sanju Joshi Parampil Sam Kurian Chacko Shamil Koshy Varghese Vinit Jose	Agro-pot transplanting machine.	Saintgits College of Engineering Kottayam	50000
5	Dr.Baiju B Asso. Professor Prof.N.Sasi (Co-Investigator)	Rahul Jayaraj Alok M Antony Vishnu Chandran Vijay Das V S	Thermo-cataly tic pyrolysis of WPC and OPC and thermal analysis of the products and improvement of	CET	50000

6	Lince Thomas Asst. Professor	Vaishakh.P Vedha Hementh Jishnu T Amal M.V	Off-Sunshine and Night Cooking Solar Cooker with Latent Heat Storage System.	Vimal Jyothi Engineering College,Kannur	50000
7	Biju Cherian Abraham Asso. Professor Georgekutty S M (Co-Investigator)	Ann Joe Jose Ronald Benny Kiran S R Karthik Praseeth	Performance evaluation of animal fat biodiesel variable compression ratio engine	MACE Kothamangalam	48000
8	Bobby P Paul Asst. Professor	Martin Paul Nithin V Edassery Pratish Rajan Sandra Maria John	Design and development of intelligent touch screen joystick for controlling electric wheelchair	Saintgits College of Engineering Kottayam	49500

Sanction order will be issued separately for each project.

**Dean Research
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