



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

CET campus, Thiruvananthapuram - 695 016

Ph: 0471 2598122; Fax: 2598522 www.ktu.edu.in Email: university@ktu.edu.in

No. KTU/RESEARCH 3/1431/2016

Dated: 15.03.2017

From

The DEAN (Research)

To

The Principal
SCT College of Engineering
Trivandrum

Sir

Sub:- APJAKTU - CERD - Student project selected for Financial Assistance Reg:-

I am glad to inform you that the following Student project is provisionally selected for funding.

Sl No	Name of Principal Investigators	Student Investigators	Branch	Title of project	Amount
1	Dr.Sheeja M.K	Sujith S	ECE	Parking system based on personal access to remote keyset based intra network(PARKIN)	30,000

You are requested to forward formal request for sanction of the grant.

Yours faithfully
Dr. VRINDA V NAIR *
DEAN (Research)

* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.



**APJ Abdul Kalam Technological University
Thiruvananthapuram**

Abstract

APJAKTU - CERD - Engineering Colleges - Financial Assistance to Student Project - Administrative Sanction - Accorded -Orders issued.

CERD

U.O.No. 218/2020/KTU

Thiruvananthapuram, Dated: 06.02.2020

- Read:-**
1. Minutes of the 1st meeting of Engineering Research Council dated 27.01.2010.
 2. Minutes of 2nd meeting of Executive Committee dated 21.10.2010.
 3. Meeting of the 2nd Research Council dated 29.02.2017.
 4. Proposals of Student Project for Financial Assistance.
 5. Screening Committee meeting held on January 2020 for evaluation of project proposals.

ORDER

By the minutes read 1st above, the Engineering Research Council had approved the scheme for Financial Assistance to Student Project for the Government Engineering College.

By the minutes read 2nd above, it was decided to extend the financial assistance for the students project to the students of the Government aided and Government Controlled Engineering Colleges.

By the minutes 3rd above, it was decided to extend the financial assistance to Students Project of all engineering colleges affiliated to KTU with NBA accreditation. It is also decided that the financial assistance will be provided as reimbursement of expenditure occurred for the sanctioned project.

The Screening Committee meetings held in January 2020 evaluated the project proposals forwarded from Engineering Colleges affiliated to KTU and recommended financial assistance to selected proposals as listed in Annexure 1.

Administrative sanction is therefore accorded for financial assistance to student project as detailed in Annexure I. The project shall be completed within a period of 1 year and the project should be completed with the students who presented the project before the Screening Committee.

The expenditure should be incurred as per the terms and conditions as per Annexure II. The amount will be reimbursed to the Principal of the concerned Colleges only after the successful completion of the project and on the production of certified bills & vouchers along with the audited utilization certificate, statement of expenditure and project completion report.

The expenditure may be met from the Head of Account

" S- 3- Research Activities-002-Innovative Student Project".

Sd/-

Dr. VRINDA V NAIR *
DEAN (Research)



35	Dr. Siddharth Shelly Assistant Professor Dr. Aji Joy (Co-Investigator)	Abhay V S Fahida V H Reshma T R Sajan C K	MACE Kothamangalam	ECE	IoT Based Domestic Vertical Farming System	18,000	2000	13,000	1000	2000	
36	Lija Thomas Assistant Professor Dr.Jinsa Kuruvila (co-Investigator)	Aadir Ahamed Aiswarya Palchadathil Athira S Kumar George N J	MACE Kothamangalam	ECE	Petroleum quality checker	9000	1000	7000	500	500	
37	Dinto Mathew Assistant Professor Eldhose K. A. (Co-Investigator)	Ismath K I Lami Mershed T P Sruthy K Muraleedharan Vaishnav C	MACE Kothamangalam	EEE	Design and implementation of hybrid MMC for variable speed applications	45,000	6000	32,000	2000	5000	
38	Rohini S. Assistant Professor Baji K (Co-Investigator)	Aparna Ajithkumar Aswin Raj P Floriya Antony Lakshmi Santhosh	SCT College of Engg Pappanamcode	BT&BCE	Novel Target using Quercetin Delivery System for Prevention & treatment of cancer stem cells.	50,000	5000	35,000	5000	5000	
39	Susmitha Kumari Assistant Professor Rajitha J Rajan (Co-Investigator)	Aakash Muralidharan Allen Souj	SCT College of Engg Pappanamcode	BT&BCE	Physiochemical efficiency of constructed wetlands in the treatment of Automobile waste water	50,000	10,000	40,000			
40	Asha S. Assistant Professor Sajith Sethu P (Co - Investigator)	Manukulathilakan S	SCT College of Engg Pappanamcode	ECE	Vehicle Safety System With Real Time Heart attack and Drowsiness Monitoring.	37,000	10,000	20,000	2000	5000	
41	Dr.Baiju V. Assistant Professor	Abin Varkey Amal P Raj Hari Babuprakash Jose Gijo Ananthu V Pillai	TKM College of Engineering Kollam	ME	Solar powered hybrid water generator using adsorption.	49050	5000	34050	3000	3000	4000
42	Amal Azad Sahib Associate Professor Dr. Priya K. L. (co-Investigator)	Anand Nelson Muhammad Hijas H Josmer Jose Aswin P Unnithan	TKM College of Engineering Kollam	Civil	Drainage of Kuttanad soil using Electrokinetic Geosynthetics.	40,000	10,000	22,000	3000	5000	

Annexure II

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Centre for Engineering Research and Development
Terms & Conditions for Financial Assistance to Student Projects

1. The amount has to be utilized as per budget provision under each head.
2. The purchase of equipments shall be in accordance with the store purchase rules. All equipment purchased will be the property of CERD and the stock entry of the items purchased shall be maintained in the College. Purchase of computers/peripherals is not allowed unless specifically mentioned in the sanction order.
3. The stock entries of consumables purchased shall also be done in the consumables stock register of College. Purchase of stationery shall be for project purpose only. Printing charges for multiple copies of the project report will not be admissible.
4. The maximum duration of the project is one year from the date of sanction. It is the discretion of the University to settle amount towards the purchase of those items not clearly mentioned, if any, in the project proposal.
5. On completion of the project, detailed report of the research work, audited statement of accounts and Utilization Certificate in the prescribed format duly attested by the head of the institution shall be submitted within one month of completion of the project for reimbursement of expenditure. Requests for reimbursement shall not be considered after the date of submission of documents as above.
6. On all publications resulting from the finding of the research/project of CERD, due acknowledgement shall be given to CERD under KTU.
7. Book or literature purchased, if any, should be taken into the Stock Register of Central Library or Department library and then distributed to the investigators.
8. The expenditure under the head Others is admissible as per the budget proposed. All other expenditure has to be included in the head Contingencies.

Title of Project:

Signature of Principal Investigator:

Name :

Office address:



**APJ Abdul Kalam Technological University
Thiruvananthapuram**

Abstract

APJAKTU - CERD - Engineering Colleges - Financial Assistance to Student Project - Administrative Sanction - Accorded -Orders issued.

CERD

U.O.No. 933/2021/KTU

Thiruvananthapuram, Dated: 15.06.2021

- Read:-*1. Minutes of the 1st meeting of Engineering Research Council dated 27.01.2010.
2. Minutes of 2nd meeting of Executive Committee dated 21.10.2010.
3. Meeting of the 2nd Research Council dated 29.02.2017.
4. Proposals of Student Project for Financial Assistance.
5. Screening Committee meeting held on April /May 2021 for evaluation of project proposals.

ORDER

Vide paper read 1st above, the Engineering Research Council had approved the scheme for Financial Assistance to Student Project for the Government Engineering College. Vide paper read 2nd above, it was decided to extend the financial assistance for the students project to the students of the Government aided and Government Controlled Engineering Colleges.

It was decided to extend the financial assistance to Students Project of all engineering colleges affiliated to KTU with NBA accreditation as per paper read 3rd above. It was also decided that the financial assistance will be provided as reimbursement of expenditure occurred for the sanctioned project.

The Screening Committee meetings held in April/May 2021 evaluated the project proposals forwarded from Engineering Colleges affiliated to KTU and recommended financial assistance to selected proposals as listed in Annexure 1.

Administrative sanction is therefore accorded for financial assistance to student project as detailed in Annexure I. The project shall be completed within a period of 1 year and the project should be completed with the students who presented the project before the Screening Committee.

The expenditure should be incurred as per the terms and conditions as per Annexure II. The amount will be reimbursed to the Principal of the concerned Colleges only after the successful completion of the project and on the production of certified bills & vouchers along with the audited utilization certificate, statement of expenditure and project completion report.

The expenditure shall be met from the Head of Account " S- 3- Research Activities-002-Innovative Student Project".

Orders are issued accordingly.

Sd/-

Dr. Shalij P.R *



ANNEXURE-I - STUDENT PROJECT SELECTED LIST 2020-21

SI No	Name of Principal Investigator	Name of Student Investigators	College	Branch	Title of the Project	Consumables	Equipments	Travel	Contingency	Amount sanctioned
1	Dr. Sajith Vijayaraghavan	Athul T Devika Shaji Gaadha P Nath Shyama H	College of Engineering Trivandrum	ECE	Re-Vent: A Low-Cost Portable Ventilator for COVID-19	3500	30,000		1500	35,000
2	Dr. T Rajeev Professor	Ankith K Lekshmy P Merin Mariam Jose Sreejith KS	College of Engineering Trivandrum	EEE	Sustainable and Portable Electricity Delivery system	2000	18,000	1700	1500	23,200
3	Dr. Dinesh Gopinath Associate Professor	Adarsh M S Nair Basil P Mathew Jijo George Varghese Vishnu P Nambiar	College of Engineering Trivandrum	EEE	Photovoltaic array Emulator based on buck converter	5000	20,000	3000	3000	31,000
4	Jayakumar P Associate professor	Ansu Susan Bijoy Samanya Subash Maneesha Mohan HariPriya MD	College of Engineering Trivandrum	EEE	Intelligent Grid Tie Module		12,525	500	500	13,525
5	Sajitha M Assistant Professor	A Sreelesh Saajid KS Sreerag K Sreeraj S.	Govt. Engg. College, Sreekrishnapuram.	EEE	Smart Energy Meter with remote load switching And anti energy theft system.	10,000	22,000	1000	4000	37,000
6	Dr. Sreelakshmi R Professor	Arjun K Ajay Krishnan P V Haseeb Rahman V K Sinadin Zidan K	GEC Thrissur	CSE	An alert hardware system to prevent intruder animals in huge agricultural lands using machine learning	5000	20,000		2000	27,000
7	Biji G Assistant Professor	Jyothis J Joy Akbarsha Rahul Krishnan R Sini Sreekumar	GEC Barton Hill	EEE	Enhanced power quality electric vehicle changing system	6000	30,000	2000	2000	40,000
8	Sudheesh Kumar C P Associate Professor	Aakarsh S Abhilash P Abhinav K V Akshay C C	GCE Kannur	ME	Experimental investigation of rainfall induced noise from roofing sheets	10,000	30,000	5000	5000	50,000
9	Dr. Sajesh Kumar U Assistant Professor	Anupriya T V Aswin C P Harishma Hari Yadun Murali K	GCE Kannur	ECE	Design, verification and implementation of LoRa WAN based end to end communication system for air pollution monitoring	7500	24,000		2500	34,000
10	Dr. U Prakash Professor	C Satheesh Sanjay Kumar S Raamesh Bhardwaj Nidhin Mohan J	Sree Chitra Thirunal College of Engineering Trivandrum	ME	Hybrid supercapacitor battery pack in electric scooter	10,000	28,000	4000	3000	45,000



11	Dr. Lakshmi V S Assistant Professor	Midhun B M Midhun M Naveen Jo Sajan Neelima Anilkumar	Sree Chitra Thirunal College of Engineering Trivandrum	ECE	Automated Public Distribution System using Blockchain	5000	15,000		2500	22,500
12	Vineetha Lekshmy P V Assistant Professor	Abdur Rameez S Anjali N Anupa Pradeep Shona Maria Shaji	Sree Chitra Thirunal College of Engineering Trivandrum	BTBC	Synthesis of Nanocellulose from Tapioca (Manihot esculenta) stem and leaves and the formulation of a bionanocomposite film reinforced with tapioca starch and glycerol for bio-packaging	10,000	25,000		5000	40,000
13	Dr. R Sudhir Kumar Professor	Sai Prasanth N Jishnu S Novin Antony Sanal Kumar A	NSS College of Engineering Palakkad	ME	Development of Sensor Activated Safety System For Drowning Car	10,000	30,000	5000	5000	50,000
14	Dr. Sudha T Principal	Neha Rahul R Sreenidhi P A Vyjayanthi J Shenoy	NSS College of Engineering Palakkad	ECE	AI enabled remote medical assistant	5000	9000		1500	15,500
15	Dr. Sreelekshmy Pillai G Assistant Professor	AGNES MARIKJ ANCYMOL STANLEY ATHIRA P HARITHA MS	NSS College of Engineering, Palakkad	Civil	FACILE IRRIGATION	15,000	25,000	5000	5000	50,000
16	PRADIP C Associate Professor	KRISHNA PRASAD R NIHAL FARHAN K T SANEESH T T SANJU P P	NSS College of Engineering, Palakkad	EEE	GREEN CHARGING STATION	4000	15,500	2000	3000	24,500
17	Dr. Surya S S Assistant Professor	Mohamed Nazique V S Muhammad Niyas Vishnu V S Mohamed Fuaadh K P	NSS College of Engineering, Palakkad	Civil	Liquid speed breaker	10,000	20,000	5000	5000	40,000
18	Nikhil Binoy C Associate Professor	Anjali Shah Dilijith R Thejaswikrishna L Thoufeek M	NSS College of Engineering, Palakkad	EEE	Gas leakage prediction and automation using Artificial neural network and Internet of Things	5000	20,000	1000	4000	30,000
19	Eldho Paul Assistant Professor	Thomas Chacko Adash V M Nevil Abraham Elias Sourav Sunil	Mar Athanasius College of Engineering, Kothamangalam	ME	Design and fabrication of Sapling planting machine	10000	17,000	5000	5000	37,000
20	Thomas Mohan Assistant Professor	Alwin Mathew Bennet Mathew Krishnakumar V S Sanjay Shajan	Mar Athanasius College of Engineering, Kothamangalam	ECE	Intelligent System of Crop fencing from wild animal attacks	5000	15,000		2500	22,500
21	Dr. Siddharth Shelly Assistant Professor	Minnu Varghese Rohit Deepak Rugma N Shaji Thejus K.	Mar Athanasius College of Engineering, Kothamangalam	ECE	Navigation Method for Visually Impaired	2000	7500		2000	11,500



Annexure II

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
Centre for Engineering Research and Development
Terms & Conditions for Financial Assistance to Student Projects

1. The amount has to be utilized as per budget provision under each head.
2. The purchase of equipments shall be in accordance with the store purchase rules. All equipment purchased will be the property of CERD and the stock entry of the items purchased shall be maintained in the College. Purchase of computers/peripherals is not allowed unless specifically mentioned in the sanction order.
3. The stock entries of consumables purchased shall also be done in the consumables stock register of College. Purchase of stationery shall be for project purpose only. Printing charges for multiple copies of the project report will not be admissible.
4. The maximum duration of the project is one year from the date of sanction. It is the discretion of the University to settle amount towards the purchase of those items not clearly mentioned, if any, in the project proposal.
5. On completion of the project, detailed report of the research work, audited statement of accounts and Utilization Certificate in the prescribed format duly attested by the head of the institution shall be submitted within one month of completion of the project for reimbursement of expenditure. Requests for reimbursement shall not be considered after the date of submission of documents as above.
6. On all publications resulting from the finding of the research/project of CERD, due acknowledgement shall be given to CERD under KTU.
7. Book or literature purchased, if any, should be taken into the Stock Register of Central Library or Department library and then distributed to the investigators.
8. The expenditure under the head Others is admissible as per the budget proposed. All other expenditure has to be included in the head Contingencies.

Title of Project:

Signature of Principal Investigator:

Name :

Office address:



**APJ Abdul Kalam Technological University
Thiruvananthapuram**

Abstract

APJAKTU - Financial Assistance to Student Projects 2022 - Administrative Sanction accorded - Orders issued.

RESEARCH SECTION

U.O.No. 964/2022/KTU

Thiruvananthapuram, Dated: 27.04.2022

- Read:-*1. Minutes of the 1st meeting of Engineering Research Council dated 27.01.2010.
2. Minutes of 2nd meeting of Executive Committee dated 21.10.2010.
3. Meeting of the 2nd Research Council dated 29.02.2017.
4. Proposals of Student Projects for Financial Assistance.
5. Screening Committee meeting held on March/April 2022 for evaluation of project proposals.

ORDER

Vide paper read 1st above, the Engineering Research Council had approved the scheme for Financial Assistance to Student Projects for the Government Engineering Colleges. Vide paper read 2nd above, it was decided to extend the financial assistance to the student projects to the students of the Government aided and Government Controlled Engineering Colleges.

It was decided to extend the financial assistance to Student Projects for all engineering colleges affiliated to the University with NBA accreditation as per paper read 3rd above. It was also decided that the financial assistance will be provided as reimbursement of expenditure occurred for the sanctioned project.

The Screening Committee meetings held in March/April 2022 evaluated the project proposals forwarded from Engineering Colleges affiliated to the University and recommended financial assistance to selected proposals as per the List appended.

Administrative sanction is therefore accorded for financial assistance to student project as detailed in the list attached below. The project shall be completed within a period of 1 year and the project shall be completed with the students who presented the project before the Screening Committee.

The expenditure should be incurred as per the terms and conditions as per Annexure II attached. The amount will be reimbursed to the Principal of the concerned Colleges only after the successful completion of the project and on the production of certified bills & vouchers along with the audited utilization certificate, statement of expenditure and project completion report.

The expenditure shall be met from the Head of Account "S 3022-Innovative Student Project".

Orders are issued accordingly.

Sd/-

Dr. Shalij P.R *
DEAN (Research)

Copy to:-

1. Principals of Engineering Colleges.
2. Principal Investigators.



27	Femina A Associate Professor	Ansi AS Devipriya Mudiyl Hina Mol Yadu Krishnan V	Removal of Heavy Metal from Water using Agro-waste	TKM College of Engineering, Kollam.	3000	10,000	1000	1000 (10,000/- for analysis)	25,000	CHEMICAL/BIOTECH
28	Dr.Habeeb Muhammed MA Assistant Professor	Anitha Jose Joseph Martin Parvathy Santhosh Bhadran Vishnu Sabadev	Fabrication of NIR luminescent gols nanocluster NIR Plasmonic Copper Sulphide nanoparticle hybrid for bioapplications	TKM College of Engineering Kollam	10,000	33,000	2000	5000	50,000	CHEMICAL/BIOTECH
29	Prof. Nikhil Binoy C Associate Professor	Sreeja Balaji Vismaya K Jinsha C	Detection of Pipeline Crack and Clog detection Robot using Convolutional Neural Network.	NSS College of Engineering NSS Nagar, Akathethara, Palakkad.	2000	5000		500	7500	ECE
30	KEERTHI KRISHNAN K Assistant Professor	Abhishek.A Govind Vijayan Vishnu Nismi PT	Smart Assistance Glove with Gesture Recognition.	NSS College of Engineering NSS Nagar, Akathethara, Palakkad	2500	3500		1500	7500	ECE
31	Dr.MayaMohan AssociateProfessorand Head	AmalRosh AnoJoseph C Vyshanv Prasanth SouravMenon	Intrusion Detection in Home IoT Network Using Deep Learning.	NSS College of Engineering NSS Nagar, Akathethara, Palakkad,	3400	13,800		1500	18,700	CSE
32	Soja Salim Assistant Professor	S Aravind P Lakshmi Sara Sulthana Shaji	Satellite Imagery to map translation	SCT College of Engineering, Pappanamcode				5000	5000	CSE
33	Dr. Soniya B Professor	Sukanya M V Arun T Jose Aarcha J R	Multimodal FakeNews Detection using hybrid RNN-CNN approach	SCT College of Engineering. Pappanamcode		50000 (for purchase of GPU)			50,000	CSE
34	Biju Jacob Assistant Professor	Albin L Vinod Aswathy p Chandran Manya Madhu.B Naveen Antony	Comparitive Study of Methods for restoration of biological soil crust in ecosystems disturbed by excessive surface runoff	Sree Chitra Thirunal College of Engineering Pappanamcode	10,000	30,000	2000	5000	47,000	CHEMICAL/BIOTECH
35	Smt Gayathri V Assistant Professor	Devi Krishna Diya Sharma Jeswin Elizabeth James Navaneeth Subash	Comparitive Study of biohydrogen Production in Microalgae and bacteria through fermentation process	Sree Chitra Thirunal College of Engineering Pappanamcode	10,000	30,000	2000	5000	47,000	CHEMICAL/BIOTECH
36	Biju Jacob Assistant Professor	Anslet Mary Abhinav Anil Anupama SS V Reshmi	Analysis and Optimisation of Process Parametres for Improving the Self Healing Capacity of Immobilized Bacteria Based Concreate	Sree Chitra Thirunal College of Engineering Pappanamcode	9960	29,000	2000	5000	45,960	CHEMICAL/BIOTECH
37	Venkitaraj K P Assistant Professor	Aneesh A Arun B Aswathy Elizabeth Jacob Aswathy Ramesh	Thermal Management of Photovoltaic Cell using PCM FOR Improved Efficiency and Power Output	College of Engineering Adoor	10,000	33,000	2000	5000	50,000	MECH
38	Deebu U S Assistant Professor	Aanand R Bhatt Ananthu Krishnan Arjun C O Shifas Shajahan	Smart door system with COVID-19 risk factor evaluation, contactless data acquisition and sanitization.	College of Engineering, Adoor	2000	12,000		2000	16,000	ECE



Annexure II

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Terms & Conditions for Financial Assistance to Student Projects

1. The amount has to be utilized as per budget provision under each head.
2. The purchase of equipments shall be in accordance with the store purchase rules. All equipment purchased will be the property of the University and the stock entry of the items purchased shall be maintained in the College. Purchase of computers/peripherals is not allowed unless specifically mentioned in the sanction order.
3. The stock entries of consumables purchased shall also be done in the consumables stock register of College. Purchase of stationery shall be for project purpose only. Printing charges for multiple copies of the project report will not be admissible.
4. The maximum duration of the project is one year from the date of sanction. It is the discretion of the University to settle amount towards the purchase of those items not clearly mentioned, if any, in the project proposal.
5. On completion of the project, detailed report of the research work, audited statement of accounts Utilization Certificate and Expenditure Statement in the prescribed format duly attested by the head of the institution along with original bills towards expenditure incurred with payment certificate of the Principal Investigator shall be submitted within one month of completion of the project for reimbursement of expenditure. The Bank Account details of the Principal shall be submitted along with the request for reimbursement. Requests for reimbursement shall not be considered after the date of submission of documents as above.
6. For reimbursement of expenses under the head **Travel**, Train tickets/Bus tickets/Taxi receipts, in original, affixing payment certificate of the Principal Investigator specifying the purpose of travel with actual distance of journey and fare shall be submitted.
7. On all publications resulting from the finding of the research/project, due acknowledgement shall be given to the University.
8. Book or literature purchased, if any, should be taken into the Stock Register of Central Library or Department library and then distributed to the investigators.
9. The expenditure under the head **Others** is admissible as per the budget proposed. All other expenditure has to be included in the head Contingencies.

Title of Project

Signature of Principal Investigator:

Name:

Office address:



**APJ Abdul Kalam Technological University
Thiruvananthapuram**

Abstract

APJAKTU - Financial Assistance to Student Projects 2022-23 - Administrative Sanction accorded - Orders issued.

RESEARCH SECTION

U.O.No. 672/2023/KTU

Thiruvananthapuram, Dated: 18.03.2023

- Read:-*1. Minutes of the 1st meeting of Engineering Research Council dated 27.01.2010.
2. Minutes of 2nd meeting of Executive Committee dated 21.10.2010.
3. Meeting of the 2nd Research Council dated 29.02.2017.
4. Proposals of Student Projects for Financial Assistance.
5. Screening Committee meeting held on February 2023 for evaluation of project proposals.

ORDER

Vide paper read 1st above, the Engineering Research Council had approved the scheme for Financial Assistance to Student Projects for the Government Engineering Colleges. Vide paper read 2nd above, it was decided to extend the financial assistance to the student projects to the students of the Government aided and Government Controlled Engineering Colleges.

It was decided to extend the financial assistance to Student Projects for all engineering colleges affiliated to the University with NBA accreditation as per paper read 3rd above. It was also decided that the financial assistance will be provided as reimbursement of expenditure occurred for the sanctioned project.

The Screening Committee meetings held in February 2023 evaluated the project proposals forwarded from Engineering Colleges affiliated to the University and recommended financial assistance to selected proposals as per the List appended.

Administrative sanction is therefore accorded for financial assistance to student project for an amount of ₹46,58,352/- (Forty Six Lakhs Fifty Eight Thousand Three Hundred and Fifty Two only) as detailed in the list attached below. The project shall be completed within a period of 1 year and the project shall be completed with the students who presented the project before the Screening Committee.

The expenditure should be incurred as per the terms and conditions as per Annexure II attached. The amount will be reimbursed to the Principal of the concerned Colleges only after the successful completion of the project and on the production of certified bills & vouchers along with the audited utilization certificate, statement of expenditure and project completion report.

The expenditure shall be met from the Head of Account "CERD (Plan) 4181-6307-Innovative Student Project".

Orders are issued accordingly.

Sd/-

Dr. Shalij P.R *
DEAN (Research)

Copy to:-

1. Principals of Engineering Colleges.
2. Principal Investigators.



51	Dr Elizabeth Isaac Assistant Professor Co-Investigator Leya Elizabeth Sunny Assistant Professor	Jazeel Anwar Manu P S Vidya V	CSE	Automatic robotic arm for pepper plucking	45,000		45,000			
52	Dr. Jisha P Abraham Professor Co-Investigator Dr Elizabeth Isaac Assistant Professor	Abisha Simon Malavika Raju Sreekala K R	CSE	Bionic hand for amputee using myoelectric direct control systeem	50,000	500	48,500	500	500	

Model Engineering College, Thrikkakara

SI No	Name of Princpal Investigator	Name of Student Investigators	Branch	Title of the Project	Amount Sanctioned	Consumables	Equipments	Travel	Contingency	
53	Jagadeesh Kumar P Assistant Professor Co-Investigator Pradeep M Associate Professor	Kalyani Pradeep Kiran Ajith Joseph Jeswin Pius	ECE	Fall Detection using mmWave Radar Sensor	30,000	25,000		3,000	2,000	
54	Dr. Preetha Theresa Joy Professor Co-Investigator Sreekumar K Assistant Professor	Adithya A Aldrin Jenson Gouri Hariharan Nayana Vinod	CSE	MULTI-LAYERED ARCHITECTURE FOR ANOMALY DETECTION IN SURVEILLANCE NETWORKS USING DISTRIBUTED COMPUTING	50,000	4,000	46,000			
55	Sreekumar K Assistant Professor	Krishnendu nambiar Nikita Menon Sharat Jacob Jacob Rahulkrishna V Nambiar	CSE	Building A General-purpose Compute-efficient Training Mechanism For Language	50,000	4,200	45,800			

SCT College of Engineering, Thiruvananthapuram

SI No	Name of Princpal Investigator	Name of Student Investigators	Branch	Title of the Project	Amount Sanctioned	Consumables	Equipments	Travel	Contingency	
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56	Dr Sheeja M K HOD	Jassim Shaji K J Abhirami Rohith G Sarma Sruthi B Nair	ECE	Visualization of Thermal Diffusivity using DHI (Digital Holographic Interferometry)	35,000	1,000	32,000	1,000	1,000	
57	SubhaV Assistant Professor	Sravan H Varun Asokan Nivya PS	ECE	Lung Cancer Cell Enhancement Detection using Fourier Ptychography Microscopy.	20,000		20,000			
58	Dr. Kamal Krishna R Assistant Professor Co-Investigator Dr. Arun M Assistant Professor	Anand M S Suryajith SS Akhilesh R Akshaj B	Mechanical	Performance enhancement techniques of Gasoline engines Retrofitted with CNG fuel system.	50,000	9,000	35,000	1,000	5,000	
59	Syama R Assistant Professor	Afreen A Habeeb Dhanya S B Nithin P	CSE	Home automation using AR	20,500	5,000	12,500	2,000	1,000	
60	Susmitha Kumari S Assistant Professor Co-Investigator Jickson D H Assistant Professor	Aishathul Haniyya Ann Elza George Parvathy S Sidharth S	BTBC- CH-FT	A study of the impact of various drying techniques on the performance of solid state fermentation process for Prodigiosin production.	50,000	10,000	30,000	5,000	5,000	
61	Gayathri V Assistant Professor Co-Investigator Dr K.B Radhakrishnan Professor & Head	V VISHAL MOORTHY SREERAJ BITTU THOMAS CK ASWATHI	BTBC- CH-FT	Struvite Production & Treatment of Dairy waste Water using Fluidized Bed Reactor	50,000	9,000	33,000	5,000	3,000	
62	Biju Jacob Professor Co-Investigator Susmithakumari S Assistant Professor	Parvathy P Safna Siraj T.S Sagarkrishna G Lekshminarayanan Potti S	BTBC- CH-FT	COMPARATIVE STUDIES ON THE EFFECT OF VARIOUS BACTERIAL CARRIERS IN SELF-HEALING CONCRETE	50,000	20,000	10,000	10,000	10,000	



Annexure II

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Terms & Conditions for Financial Assistance to Student Projects

1. The amount has to be utilized as per budget provision under each head.
2. The purchase of equipments shall be in accordance with the store purchase rules. All equipment purchased will be the property of the University and the stock entry of the items purchased shall be maintained in the College. Purchase of computers/peripherals is not allowed unless specifically mentioned in the sanction order.
3. The stock entries of consumables purchased shall also be done in the consumables stock register of College. Purchase of stationery shall be for project purpose only. Printing charges for multiple copies of the project report will not be admissible.
4. The maximum duration of the project is one year from the date of sanction. It is the discretion of the University to settle amount towards the purchase of those items not clearly mentioned, if any, in the project proposal.
5. On completion of the project, detailed report of the research work, audited statement of accounts Utilization Certificate and Expenditure Statement in the prescribed format duly attested by the head of the institution along with original bills towards expenditure incurred with payment certificate of the Principal Investigator shall be submitted within one month of completion of the project for reimbursement of expenditure. The Bank Account details of the Principal shall be submitted along with the request for reimbursement. Requests for reimbursement shall not be considered after the date of submission of documents as above.
6. For reimbursement of expenses under the head **Travel**, Train tickets/Bus tickets/Taxi receipts, in original, affixing payment certificate of the Principal Investigator specifying the purpose of travel with actual distance of journey and fare shall be submitted.
7. On all publications resulting from the finding of the research/project, due acknowledgement shall be given to the University.
8. Book or literature purchased, if any, should be taken into the Stock Register of Central Library or Department library and then distributed to the investigators.
9. The expenditure under the head **Others** is admissible as per the budget proposed. All other expenditure has to be included in the head Contingencies.

Title of Project

Signature of Principal Investigator:

Name:

Office address:

