

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

Kokapet (V), Gandipet (M), Hyderabad – 500 075

RESEARCH AND DEVELOPMENT COMMITTEE(RDC)

Date:13.05.2023

Note submitted Hon'ble Secretary & Correspondent:

Sub: Request for approval for In-house funding of shortlisted UG/PG Projects for the Academic Year 2022-23 – Regarding.

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The Research and Development committee has invited proposals from students for funding of projects. The Head of the Departments were requested to scrutinize the proposals and shortlisted proposals are sent for the perusal of the same.

A total of 27 projects from various departments have been shortlisted by the Head of the Departments and submitted to RDC. The shortlisted project list is attached herewith for your consideration and approval for funding as per the guidelines to students already notified.

The cost of the shortlisted projects is approximately Rs.5,44,690/- (Rupees Five Lakhs Forty Four Thousand Six Hundred and Ninety Only) which was approved in the LXXXX General Body meeting of CBES held on 01.04.2023..

The Hon'ble Secretary and Correspondent is requested to kindly approve an amount of Rs.5,44,690/- for funding the above mentioned 27 student projects. *No project can be reimbursed more than 20,000/- following GB minutes and guidelines.*

M. Phani
Director RDC

[Signature]
Accts. Officer

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Admin. Officer

[Signature] 13/5/2023
PRINCIPAL

[Signature]
Treasurer

[Signature]
Secretary & Correspondent

discuss till
No project can be reimbursed of more than Rs 20,000 as per GB minutes can only consumable material with GST bill and also equipment will be allowed - *[Signature]*



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Kokapet(Village), Gandipet(Mandal), Hyderabad - 500075

RESEARCH AND DEVELOPMENT COMMITTEE

The following are the details of UG/PG projects for in-house funding:-

S.No	Name of the project supervisor	Department	Roll number of the students	Title of the UG/PG project	UG/PG project	Duration of the project	Estimated budget in Rupees
1	Mr.S.Jayaprakash Narayana	Civil Engineering	19261A0197 20265A0109 20265A0111	Effect of fibers on flexural behaviour of geopolymer concrete beams	UG	2 months	₹17315
2	Dr.K.V.Ramana Reddy	Civil Engineering	21261D2011	Comparative study on the performance characteristics of self compacting concrete with micro silica and nano silica	PG	5 months	₹20610
3	Mrs.D.Tarangini	Civil Engineering	21261D2005	Experimental investigations on the properties of previous concrete using rice husk ash and polypropylene fibers	PG	2 months	₹16150
4	Dr. P. Ram Kishore Kumar Reddy	Electrical and Electronics Engineering	19261A0228 19261A0229 19261A0236	Online monitoring of voltage control using GPRS technology	UG	3 months	₹25000

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S.No	Name of the project supervisor	Department	Roll number of the students	Title of the UG/PG project	UG/PG project	Duration of the project	Estimated budget in Rupees
5	Mr.P.Pradyumna	Electrical and Electronics Engineering	19261A02A4 19261A02A5 20265A0219	Pre-Paid Smart Energy Meter utilizing Arduino UNO and IoT Based Application, GSM	UG	2 Months	₹20000
6	Mr.Ch.Vinay Kumar	Electrical and Electronics Engineering	19261A0274 19261A0279 18261A0252	Predictive Torque Control of Induction Motor Drive	UG	2 months	₹40000
7	Mr. G. Arun Kumar	Electrical and Electronics Engineering	20265A0202 20265A0209 19261A0221	Smart Energy Management System using Advanced Metering Infrastructure	UG	3 months	₹25000
8	Dr. V Vijaya Bhaskar	Mechatronics	19261A1446 19261A1418 19261A1434	Design and fabrication of Quadraped robot	UG	3 Months	₹54700
9	Mr. S Ajay Kumar	Mechatronics	19261A1406 19261A1431 19261A1452 20265A1406	Design and fabrication of Bionic Arm	UG	3 Months	44379
10	Dr. Asheesh Kumar	Mechanical Engineering	18261A0324 19261A0325 19261A0336	Design and Fabrication of spin coater for thin film preparation and study the parameters effecting the thin film synthesis	UG	3 months	24804

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S.No	Name of the project supervisor	Department	Roll number of the students	Title of the UG/PG project	UG/PG project	Duration of the project	Estimated budget in Rupees
11	Dr. T Niranjana	Mechanical Engineering	19261A0302 19261A0303 19261A0317 19261A0318	Investigating 3D Printing Parameters for Reverse Engineering Brake Pedals	UG	3 Months	₹65700
12	Ms. K Sirisha	Mechatronics	21261D8006	Attitude control system in a falling body	PG	5 months	₹26000
13	Dr.D.Venkat Reddy	Electronics and Communication Engineering	19261A0401 19261A0403 19261A0421	Movable road divider for organized vehicular traffic control	UG	3 months	₹10590
14	Mr. K.Bapayya	Electronics and Communication Engineering	19261A0417 19261A0425 19261A0408	Text in Image to Speech Conversion Using Raspberry-Pi	UG	3 months	₹17500
15	Dr.S.Srinivasa Rao	Electronics and Communication Engineering	19261A0494 19261A04A5 19261A0499	IoT based paralysis health care monitoring system	UG	3 Months	₹7630
16	Mrs. P. Durga Devi	Electronics and Communication Engineering	19261A04B5 19261A0462 19261A0461	An Intelligent IoT based Greenhouse monitoring and control system	UG	3 months	₹5770
17	Mrs.G.Usha Rani	Electronics and Communication Engineering	19261A04E6 19261A04D5 19261A04D9	Multi purpose Robot Vehicle	UG	3 Months	₹8800
18	K.Bapayya	Electronics and Communication Engineering	19261A04G6 19261A04G9 19261A04H0	CNC-2D Plotter	UG	3 months	₹13000

P. Chakravarthy
N. Praveen
R. Anand

S.No	Name of the project supervisor	Department	Roll number of the students	Title of the UG/PG project	UG/PG project	Duration of the project	Estimated budget in Rupees
19	Dr.D.Vijaya Lakshmi	Information Technology	19261A1201 19261A1202 19261A1207	Vehicle Accident Detection using IoT	UG	3 months	₹9470
20	Mr.B.Lokesh	Information Technology	19261A1220 19261A1232 19261A1238	Quality Grain Checking system using IoT and Machine Learning	UG	3 months	₹12569
21	Dr.B.Prasanthi	Computer Science and Engineering	19261A0532	Automatic Door Unlock with Facial Recognition	UG	3 months	15000.00
22	Dr.M.Sreevani	Computer Science and Engineering	19261A0517 19261A0520	Smart Stick For Visually Impaired Using IoT	UG	3 months	15000.00
23	Ms.Gausiya Begum	Computer Science and Engineering	19261A0568	IoT Based Animal Detection and Alert System from Farmlands	UG	3 months	7000.00
24	Ms.G.Naga Sujini	Computer Science and Engineering	19261A0578	Glare handling of automobiles using IoT	UG	3 months	12000.00
25	Ms.P.Poornima	Computer Science and Engineering	19261A0583	Anti theft flooring system using Raspberry pi	UG	3 months	15700.00
26	R Mohan Krishna Ayyappa	Computer Science and Engineering	19261A05H5 19261A05H6	Voice based Notice Board using Arduino(IoT)	UG	3 months	10000.00
27	Y.Pavan Narsimha Rao	Computer Science and Engineering	19261A05F3 19261A05F4	Smart Street Lighting with Solar Energy (IoT)	UG	3 months	5000.00

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Minutes of the LXXX GBM
for ready reference.

CBES_LXXX GBM dt.01.04.2023_Minutes dt. 23.04.2023

	6. Student Projects	
		Request for a maximum funding of Rs.20,000/- for UG/PG projects is proposed from the Academic Year 2022-23. for two final year student projects per section of Engineering branch will be approved by the Institute R & D Cell to encourage UG / PG students to carryout quality in-house projects. This will help to improve Research and Development activities in the respective departments and the outcome of the Projects may be published as Research Publication in reputed journals. It will help the Institution in improving its Rankings and Accreditations. Request for the approval of the General Body.
Minutes	:	The General Body resolved and approved a maximum amount of Rs.6.00 lakhs for the Academic Year 2022-23 for final year projects of UG/PG Engineering branch students to encourage UG / PG students to carryout quality in-house projects recommended by the R & D Cell of MGIT.