



MUFFAKHAM JAH COLLEGE OF ENGINEERING & TECHNOLOGY

(Estd. by Sultan-Ul-Uloom Education Society in 1980)

(Affiliated to Osmania University, Hyderabad)

(Approved by the AICTE & Accredited by NBA)

RESEARCH AND DEVELOPMENT CELL

Dr. Mahipal Singh Rawat
(Principal, MJCET),
Chairman, R & D CELL, MJCET

Dr. (Mrs.) Ishrat Meera Mirzana
(Professor, MED),
Director, R & D CELL, MJCET

Ref: MJ/25/R & D/ 6/18

Date: 16/04/2025

LIST OF SANCTIONED PROJECTS FOR 2024-2025

This year, 23 project proposals were submitted from various departments seeking R & D funding. Out of which, **Fourteen** projects of total amount Rs.12,51,401/- (Phase –I) were approved for funding after review on March 4th, 2025.

The following are the approved faculty research projects:

1. Project : Kisan Mitra: An agriculture friendly Bot
Department : Electronics and Communication Engineering
Investigators : Mrs. Shubhangi Saxena, Asst. Professor, ECED and Dr. Ayesha Naaz, Professor & Head, ECED
Amount : **Rs. 91,347/-**
2. Project : Astra Rover: A fusion Rover for Earth and Beyond
Department : Electronics and Communication Engineering
Investigators : Mrs. B. Sucharitha, Asst. Professor, ECED, Dr. Hemalatha, Asso. Professor, MED and Dr. Ayesha Naaz, Professor and Head, ECED
Amount : **Rs. 51,059/-**
3. Project : Neurosense
Department : Electronics and Communication Engineering
Investigators : Mrs. B. Sucharitha, Asst. Professor, ECED and Dr. Ayesha Naaz, Professor and Head, ECED
Amount : **Rs. 56,800/-**
4. Project : Smart Seminar – Living Lab Project
Department : Electronics and Communication Engineering
Investigators : Dr. Salma Fauzia, Asso. Professor, ECED and Ms. Maliha Naaz, Asst. Professor, ECED
Amount : **Rs. 1,34,000/-**
5. Project : Design and fabrication of 3D printer for foundry applications
Department : Mechanical Engineering
Investigators : Dr. Mohammed Viqar Mohiuddin, Professor and Head, MED
Amount : **Rs. 71,900/-**

VISION of R & D Cell: To empower the faculty and students in the area of Research & Development by providing seed funds for implementing their innovative research and product development ideas.

8-2-249 to 267, Mount Pleasant, Road No.3, Banjara Hills, Post Box No.14, Hyderabad – 500034. T.S
Phone: 040-23280301, 23280305, Fax: 040-2335 3428, Website: www.mjcollege.ac.in ,
E-mail: principal@mjcollege.ac.in / director@mjcollege.ac.in



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6. Project : Design and fabrication of open drainage cleaning equipment
Department : Mechanical Engineering
Investigators : Dr. Mohammed Sadak Ali, Professor, MED and Dr. V. Dharam Singh, Asst. Professor, MED
Amount : **Rs. 60,000/-**
7. Project : Development of an intelligent real time bus tracking system for city commuters using live GPS, IoT and Mobile
Department : Mechanical Engineering
Investigators : Mr. Bharat Kumar Talluri, Asst. Professor, MED and Mr. Syed Muzammil Shah, Asst. Professor, MED
Amount : **Rs. 1,95,000/-**
8. Project : HydroScout: Precision water body and silt depth analysis device
Department : Civil Engineering
Investigators : Dr. Qamar Sultana, Asso. Professor, CED and Dr. Arshad Mohammed, Asst. Professor, EED
Amount : **Rs. 69,000/-**
9. Project : Application of AI in Structural health monitoring
Department : Civil Engineering
Investigators : Mr. V. D. Raju, Asst. Professor, CED and Dr. S.V. N. Reddy, Asst. Professor, CED
Amount : **Rs. 1,02,300/-**
10. Project : AI- driven autonomous drone system for comprehensive solar panel management and optimization
Department : Electrical Engineering
Investigators : Dr. Mohammed Sajid, Asso. Professor, EED and Dr. Arshad Mohammed, Asst. Professor, EED
Amount : **Rs. 1,69,900/-**

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The following are the approved research projects under student category:

1. Project : Fabrication of Rear Spoiler for SAE/ Supra Vehicle using Optimized NACA Airfoil Profile Standards
Department : Mechanical Engineering
Investigators: Dr. S. Irfan Sadaq, Asst. Professor, MED and Mrs. S. Shahar Banu, Asst. Professor, MED
Amount : **Rs. 69,600/-**
2. Project : Design and fabrication of a smart drone for pharmaceutical delivery with integrated temperature management
Department : Mechanical Engineering
Investigators: Dr. G. Sailaja, Asso. Professor, MED and Dr. Arshad Mohammed, Asst. Professor, EED
Amount : **Rs. 58,895/-**
3. Project : Fabrication and performance of double pipe heat exchanger using various Nano particles for industrial applications
Department : Mechanical Engineering
Investigators: Mrs. Naseema, Asst. Professor, MED and Mrs. S. Shahar Banu, Asst. Professor, EED
Amount : **Rs. 81,600/-**
4. Project : Automatic Portable welding and cutting carriage machine
Department : Mechanical Engineering
Investigators : Dr. Mohammed Viqar Mohiuddin, Professor and Head, MED
Amount : **Rs. 40,000/-**

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