



KIRORI MAL COLLEGE

ROBO PHYSICISTS



KMC ROBO PHYSICISTS

UNIVERSITY OF DELHI



Inspiring Innovation: **The Robo Physicists Way**



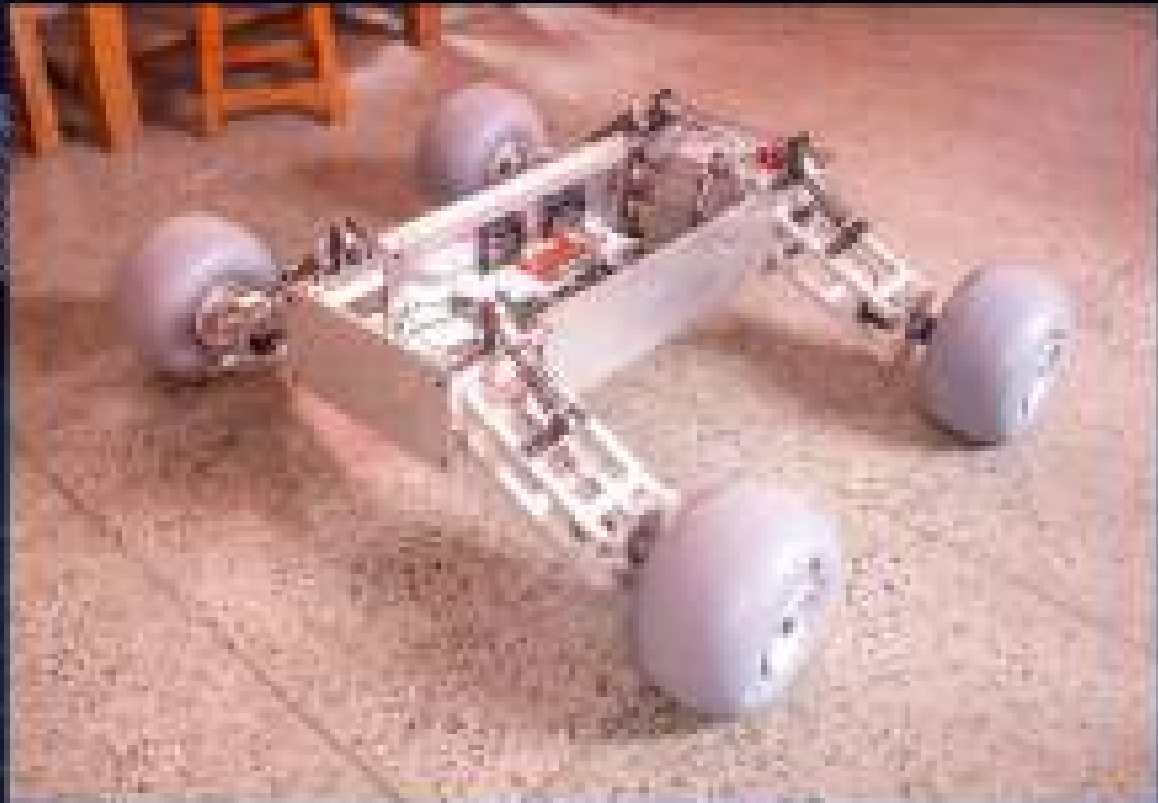
Welcome to KMC Robo Physicists, where innovation meets engineering excellence!

About Us

KMC Robo Physicists is a dynamic and ambitious college society that is at the forefront of rover technology. As a group of passionate engineering enthusiasts, we strive to design, build, and operate cutting-edge rovers capable of conquering challenges on both national and global stages. Our society's foundation lies in the belief that robotics can shape the future and solve real-world problems.



Roaming Beyond Limits: **Discovering the Possibilities at KMC Robotics Lab**



Our Vision

At KMC Robo Club, we cultivate a collaborative and creative atmosphere that nurtures innovation among students. Our focus is on developing technical expertise and problem-solving skills through hands-on experiences in designing and constructing rovers. By engaging in rover challenges worldwide, we take pride in showcasing our college's capabilities to the global engineering community.

• Rover Design and Development

We constantly explore new technologies and materials to enhance the performance and efficiency of our creations.

• Skill Workshops

We conduct regular workshops on robotics, electronics, and coding programming.

• Rover Challenges

We participate in rover challenges and competitions organized by esteemed institutions worldwide.



Our Achievement

Our team has achieved a significant milestone by creating a Mars Rover, a remarkable technological innovation that garnered attention at the centenary celebration of Delhi University. The distinguished presence of our country's **Prime Minister Shri Narendra Modi Ji**, added prestige to the occasion as we got the opportunity to showcase our cutting-edge creation to him firsthand. Additionally, Our **Education Minister Shri Dharmendra Pradhan Ji**, actively participated by personally operating the rover, showcasing his enthusiasm for our project. The commendable interest displayed by the **Commissioner of Police, Mr. Sanjay Arora**, further highlights the impact and value of our undertaking.

Over the years, our college has achieved notable recognition and garnered numerous awards. As a result, our college has consistently attracted significant **media attention**, with mentions in various forms of media such as **online news articles** and **newspaper publications**. We have managed to establish a strong presence across different media platforms, ensuring that our achievements and accomplishments receive extensive coverage and reach a wider audience.



OUR ACCOMPLISHMENTS

Year 2016:

Project: **INFINITI**

From a pool of 64 foreign teams, our project "INFINITI-I" was so scientifically designed that it was chosen by several internal competitive and eliminative criteria for its design.



Year 2015:

Project: **MR04**

21st overall ranking out of 44 international teams in University Rover Challenge (URC) 2015.
3rd position in the project presentation category.

Project : **CLERTH**

Only International Team whose research paper was selected in NASA's Revolutionary Aerospace System Academic Linkage (RASCAL), held at Kennedy Space Center, USA.





Year 2014:

Project: **MR03**
13th overall ranking out of 31 international teams in URC, 2014.
3rd position in project presentation category.

Year 2013:

Project : **AT02**
11th rank out of 50 international teams in NASA's Lunabotics Mining Competition 2013, Kennedy Space Center (K.S.C.), USA.
2nd in "Outreach Project Report."
2nd position in "Luna's Worldwide Campaign".



Year 2012:

Project : **AT01**
15th rank out of 65 international teams in NASA's Lunabotics Mining Competition 2013, K.S.C., USA.
5th in "Outreach Project Report".



Year 2009 - 2010:

Project: **The Great Moonbuggy Race**
System Safety award in NASA's Great Moonbuggy Race.
Best initial design award.

With an illustrious track record, our robotics club has amassed a multitude of achievements and accolades, including victories in esteemed competitions like **NASA Lunabotics** and the **University Rover Challenge**. Countless hours of dedication and ingenuity have propelled us to the forefront of robotics innovation, proudly representing our college on the global stage.



Prime Minister Shri Narendra Modi Ji, and our Vice Chancellor Prof. Yogesh Singh interacting with our students of Robotics Club at Delhi University's Centenary Celebration.



2nd position in NASA's
Lunabotics "Luna's
Worldwide Campaign".

2nd position in NASA's
Lunabotics "Outreach
Project Report".



Special Effort Award from
AIAA

Lunabotics Award
Ceremony, 2013





Dr. Sumitra Mohanty (Faculty Advisor) received the award on behalf of the team, at URC 2014.

Team Participation award for The Great Moonbuggy Race.



System Safety Engineering Award for 2009 Moon-buggy Race.

Our Team along with the organizers of NASA's Great Moonbuggy Race





NEWS CLIPPINGS

KMC students' Mars rover competes in NASA contest

By Heena Kaur

NEW DELHI

Students of KMC College have built a Mars rover to compete in a NASA contest.

A team of six students led by Dr. Manoj Kumar, a faculty member at KMC College, have built a Mars rover to compete in a NASA contest.

The rover is named 'Mars Rover' and is built to compete in a NASA contest.

The students are currently working on the rover and hope to launch it in the near future.

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THEY STARTED BUILDING THE ROVER IN FEBRUARY AND TOOK NEARLY A MONTH TO COME OUT WITH THE FINAL MODEL.

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Sky is not the limit for 20 DU students

By Heena Kaur
in New Delhi

WITH an eye on sky, quite literally, a group of students from Delhi University is all set to participate in an international aerospace competition sponsored by National Aeronautics and Space Administration (NASA) after their design to build a habitat for astronauts, to enable longer space missions, was selected.

The group—KMC Astro-Physicists—20 undergraduate students from DU's Kirti Mahal College is one of the 14 teams selected from across the world for competing in the final stage of the competition RASCAL (Revolutionary Aerospace Systems Concepts—Anderson Linkage).

The competition will be held

in June in Florida.

"Most of the space missions are in lower orbit which is below 100 kilometres from earth. Our design will enable missions beyond the lower orbit," said Ritika Khatri, a team member.

The teams with the top two winning papers will be invited

Students to take part in NASA competition

to present their design projects to industry experts at a major Aerospace conference.

The team is working under the mentorship of Dr. Sumit Mahanty of KMC and Dr. Nirmal G. Patel, associate professor of Physics at University of North Florida.

HINDUSTAN TIMES

INDIAN EXPRESS

STUDENTS FROM KIRORIMAL COLLEGE, CLUSTER INNOVATION CENTRE WILL TAKE PART IN NASA'S LUNABOTICS MINING COMPETITION

DU students hope to send their robot for lunar mining

By Heena Kaur
NEW DELHI

UNDERGRADUATE students of Delhi University's Kirorimal College and the Cluster Innovation Centre are building a robot to compete in a NASA contest.

The students are currently working on the robot and hope to launch it in the near future.

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NASA competition will be held in May

KIRORIMAL
College students are working on a mechanical aspect. Cluster Innovation Centre students are helping with the software

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INDIAN EXPRESS



DAINIK JAGARAN



TIMES OF INDIA

FE The Financial Express

Working model of Mars rover, semiconductors made by students part of exhibition at DU for PM...



FINANCIAL EXPRESS



With a legacy of remarkable accomplishments in the field of STEM, our robotics club has continuously achieved notable success in international competitions. From participating in prestigious events to garnering recognition for our technical design review, we exemplify unwavering commitment to innovation and excellence. Our collaborative efforts shape the future of technology, inspiring the next generation of scientists and engineers.



"Imagination is the beginning of creation. You imagine what you desire, you will, what you imagine, and at last, you create what you will."

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