

ABOUT THE EVENT

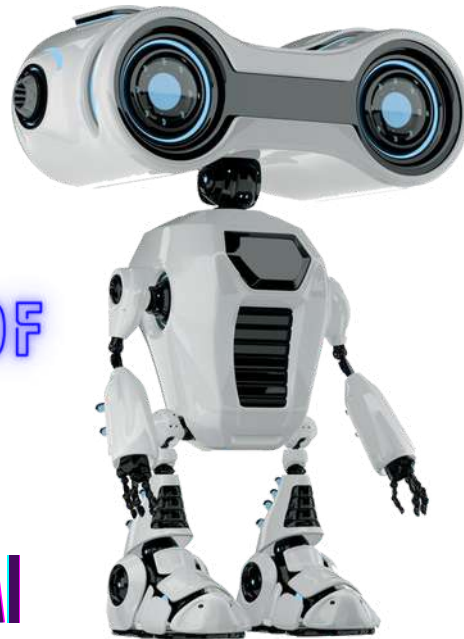
Join us for an exciting journey into the world of robotics! This unique training programme is designed specifically for 6th to 10th standard school girls, providing a safe and supportive environment to learn, create, and innovate.



PROGRAMME DETAILS

- The programme runs for six days, with seven hours of hands-on sessions each day.
- You'll get to work with robotic electronic components and kits, developing skills in both hardware and software.

*Unleash
Creativity!*



**DIVE INTO
THE WORLD OF
ROBOTICS**

**Harness
THE POWER OF AI**



GIRLS IN ROBOTICS INSPIRE, INNOVATE, IMPACT WITH AI INTEGRATED ROBOTICS

A one week training programme from **6 May 2024 to 11 May 2024** on Robotics exclusively for **6th - 10th standard school girls** at **Pillai College of Engineering, New Panvel**

Exciting opportunity to learn the fundamentals of robotics and coding, and use your newfound skills to **build your own robot.**

This programme covers everything from sensors, actuators, controllers, to programming languages, Artificial Intelligence (AI) integrated robotics.



9 am to 10 am	Inauguration	MAY 06 DAY 1 - Introduction to robotics
10 am to 11 am	Introduction to Electronics & Controllers	
11 am to 11:15 am	Snacks Break (Snacks will be provided by us)	
11:15 am to 1 pm	Continue with session on Introduction to Electronics & Controllers	
1 pm to 1:30 pm	Lunch Break (Students should carry their lunch)	
1:30 pm to 3 pm	Learning to code, Interfacing controllers with sensors	
3 pm to 4 pm	Exploring motors	

9 am to 10 am	Motivation Session on Girls in Robotics	MAY 07 DAY 2 - Building robots
10 am to 11 am	Interfacing controllers with actuators	
11 am to 11:15 am	Snacks Break (Snacks will be provided by us)	
11:15 am to 1 pm	Continue with session on Interfacing controllers with actuators	
1 pm to 1:30 pm	Lunch Break (Students should carry their lunch)	
1:30 pm to 3 pm	Building a robot	
3 pm to 4 pm	Controlling a robot	

9 am to 10 am	Session on robotics and the society	MAY 08 DAY 3 - Controlling robotic vehicles
10 am to 11 am	Robot motion types	
11 am to 11:15 am	Snacks Break (Snacks will be provided by us)	
11:15 am to 1 pm	Continue with session on Robot motion types	
1 pm to 1:30 pm	Lunch Break (Students should carry their lunch)	
1:30 pm to 3 pm	Types of robots	
3 pm to 4 pm	Building different types of robots	

9 am to 10 am	Session on challenges in robotics	MAY 09 DAY 4 - Exploring different types of robots - robotic arms, service robots, agricultural robots
10 am to 11 am	Introduction to Robotic Arms	
11 am to 11:15 am	Snacks Break (Snacks will be provided by us)	
11:15 am to 1 pm	Continue with session on Introduction to Robotic Arms	
1 pm to 1:30 pm	Lunch Break (Students should carry their lunch)	
1:30 pm to 3 pm	Types of End effectors	
3 pm to 4 pm	Kinematics and motion	

9 am to 10 am	Session on diversity in robotics	MAY 10 DAY 5 - Robotics and AI
10 am to 11 am	Introduction to Artificial Intelligence (AI)	
11 am to 11:15 am	Snacks Break (Snacks will be provided by us)	
11:15 am to 1 pm	Continue with session on Introduction AI, data acquisition & identification	
1 pm to 1:30 pm	Lunch Break (Students should carry their lunch)	
1:30 pm to 3 pm	Training, classification and learning in AI	
3 pm to 4 pm	Integration of AI and robotics	

9 am to 10 am	Session on career opportunities for girls in robotics	MAY 11 DAY 6 - Robotics and AI challenge
10 am to 11 am	Building a robotics project	
11 am to 11:15 am	Snacks Break (Snacks will be provided by us)	
11:15 am to 1 pm	Continue with session on Building a robotics project	
1 pm to 1:30 pm	Lunch Break (Students should carry their lunch)	
1:30 pm to 3 pm	Robotics challenge	
3 pm to 4 pm	Valedictory	

BEYOND ROBOTICS



This programme is not just about learning robotics. It is about building confidence, enhancing teamwork, & honing problem-solving skills. It's about meeting other girls who share the same interests, making new friends, and inspiring each other.

If you're a school girl studying in 6th to 10th standard and interested in robotics, this programme is for you!



IMPORTANT INFORMATION

Some points to note:

THIS TRAINING IS ONLY FOR GIRLS.

- You need to pay a refundable deposit of Rs. 200, which will be returned to you after you complete the training of 6 days.
- Students should carry their lunch. Snacks will be provided by us.
- Please fill the google form to register (link of the google form is provided in the message along with this brochure).
- The student has to report to Pillai College of Engineering, New Panvel Campus from May 6 to May 11.
- The training timings for all the 6 days will be 9 am to 4 pm.



This program will be conducted at Pillai College of Engineering, New Panvel



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