



دي بي اس - مدرسة مونارك الدولية

DPS-MONARCH INTERNATIONAL SCHOOL

DPS-Monarch/CIR/SCY/2025-26/364

Date: 15.03.2026

From Principal's desk....

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NEXT BRAIN LAB

Nurturing Young Innovators

ROBOTICS PROGRAM


Dear Parents,




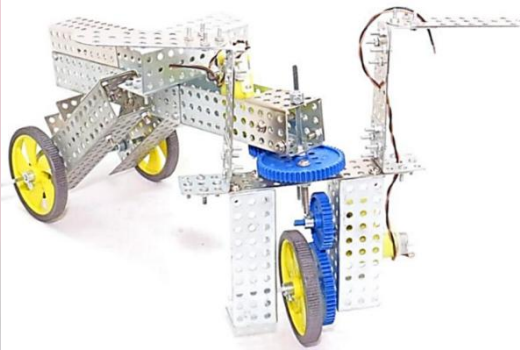

Greetings of the day!

As we prepare for the Academic Year 2026-27, we are thrilled to open the registration of our Robotics Program and extend an invitation for your child to enroll. We are pleased to offer this program to students across all grade levels, from primary to secondary school. However, please note that there are limited seats available, and enrollment will be on a first-come, first-served basis. Therefore, we encourage interested students to register as soon as possible to secure their spot in the program. Please find below the details of the Robotics program for the upcoming academic session 2026-27 for Grade 1 to 12.

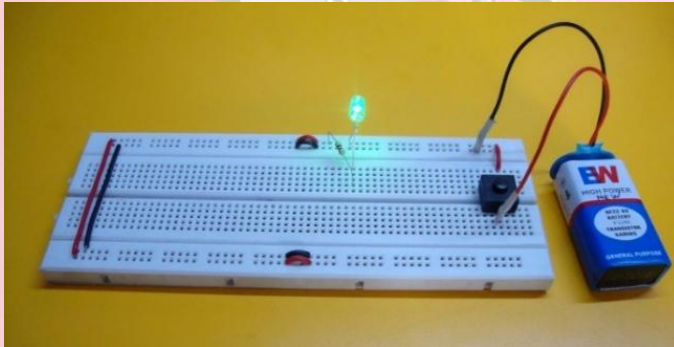
COURSE FEATURES

The courses aim to provide students with tools, exposure, and understanding which would help them address problems using the design thinking process:

GRADE	COURSE	CURRICULUM OBJECTIVES
Grade 1	LEGO ROBOTICS – SPIKE BASIC 	<ul style="list-style-type: none">▪ Identifying and assembling parts from the kit.▪ Usage of mechanical components and building various robots.▪ Programming robots using icon-block based coding.
Grade 2	LEGO ROBOTICS – SPIKE ADVANCE	<ul style="list-style-type: none">▪ Identifying and assembling parts from the kit.▪ Usage of mechanical components and building various robots.▪ Programming robots using word-block based coding.

		
<p>Grade 3</p>	<p>LEGO ROBOTICS – SPIKE PRIME</p> 	<ul style="list-style-type: none"> ▪ Identifying and assembling parts from the kit. ▪ Usage of mechanical components and building various robots. ▪ Programming robots using word-block based coding.
<p>Grade 4</p>	<p>ROBOTICS with AI</p> 	<ul style="list-style-type: none"> ▪ Understanding basic concepts of AI. ▪ Learn block-based programming to control robot movements and actions. ▪ Programming robots using word-block based coding platforms and controlling with AI.
<p>Grade 5</p>	<p>MANUAL ROBOTICS</p>  <p>AI with SCRATCH</p> 	<ul style="list-style-type: none"> ▪ Usage of mechanical components and building various robots. ▪ Fundamental mechanical concepts. ▪ Understanding basic concepts of AI. ▪ Building of various AI based projects.

ELECTRONIC CIRCUIT BASIC



- Understanding basic electronic components.
- Building and Simulating circuits on online platforms.
- Building electronic circuits on a Breadboard.

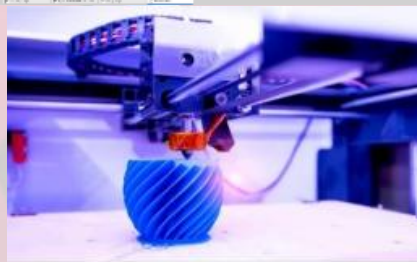
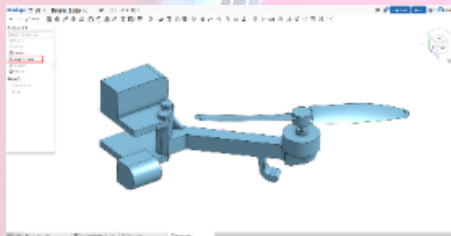
Grade 6

APP DEVELOPMENT



- Learning to design user interfaces (UI) and coding for the application.
- Integrating graphic design, content creation, and logical thinking into the app development process.

PRODUCT DESIGN AND 3D PRINTING


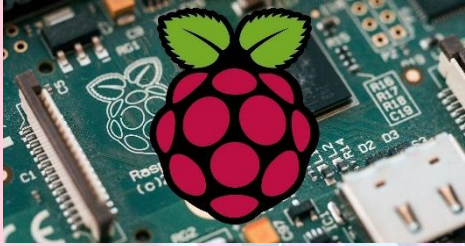



- Learning to design 3D models for printability using CAD software.
- Understanding the core principles of 3D printing technology.
- Operating 3D printers safely and efficiently.
- Calibrating and maintaining 3D printers for optimal performance.
- Understand the basic components of a drone, including frame, motors, propellers, flight controller, and battery.
- Learn basic flight principles such as lift, thrust, drag, and balance.
- Perform basic drone maneuvers such as take-off, hovering, movement, and landing.

Grade 7 and 8

INTRODUCTION TO DRONE TECHNOLOGY



<p>Grade 9 and 10</p>	<p>ARDUINO BASED ROBOT – ADVANCE</p> 	<ul style="list-style-type: none"> ▪ Understanding robot mechanics, build simple robots with Arduino, and explore different robot designs like voice control robot, gesture control robot, etc. ▪ Text based coding to develop autonomous and wirelessly controlled robots. ▪ Building of mobile application to control robot wirelessly.
<p>Grade 11 and 12</p>	<p>Raspberry Pi</p>  <p>Robotics and Automation</p> 	<ul style="list-style-type: none"> ▪ Install and configure the Raspberry Pi operating system and perform basic system setup and terminal operations. ▪ Develop Python programs to control hardware connected to the Raspberry Pi. ▪ Interface electronic components such as LEDs, buttons, buzzers, sensors, and displays using GPIO pins. ▪ Identify the components and working principles of the robot arm, including joints, actuators, end effectors, and controllers. ▪ Program the robot arm using graphical programming and scripting tools. ▪ Perform pick-and-place operations and automate simple tasks using the robot arm.

REGISTRATION LINK

Kindly find below the registration link to register your child for the course:

<https://forms.office.com/r/wm8F8eDZQw>

We request interested parents to submit the registration form and make the first term fee payment by **26th March 2026** to reserve the seat, as seats are limited.

ROBOTICS RESOURCES CHARGES & SEAT AVAILABILITY

Grade	Annual Payment (in QAR)	No. of Seats available
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Grade 1 to 3	1050 Riyals	72 Seats each grade
Grade 4 to 5	1350 Riyals	72 Seats each grade
Grade 6 to 8	1800 Riyals	36 Seats each grade
Grade 9 to 12	1950 Riyals	36 Seats each grade

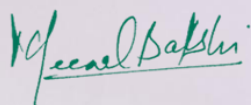
1. Seats will be allotted on a first-come, first-served basis. Once enrolled, students are expected to continue the Robotics program for the entire academic year and cannot discontinue in the middle of the program.
2. All existing robotics students are also required to complete the registration form to continue in the program.
3. The course fee can be paid through any of the payment modes mentioned below.
 - a) Online Bank transfer to our Monarch International School, Doha Bank Account No-0215-920665-001-0010-000 with IBAN No. QA98DOHB02150920 6650010010000, C-Ring Road Branch, Doha by mentioning student details in the "Transaction Remarks" column.
(OR)
 - b) Online Bank transfer to our Monarch International School, Commercial Bank Account No-4010-477106-001 with IBAN No. QA56CBQA000000004010477106001, Grand Hamad Branch, Doha by mentioning student details in the "Transaction Remarks" column.
(OR)
 - c) Online Bank transfer to our Monarch International School, Dukhan Bank Account No - 100001858313 with IBAN No. QA95BRWA000000000100001858313, Main Branch, Doha mentioning student details in the "Transaction Remarks" column.
(OR)
 - d) Payment on the School Fee Counter (Cash / Card (Debit / Credit) / Cheque (Current Dated)

Classes will be conducted during regular school hours from 1st April 2026. Please note that the timetable and the monthly syllabus will be shared with parents in April. We are excited to offer this opportunity to our students and look forward to seeing them thrive on the robotics program.

Thank you for your continued support and involvement in your child's education. Please do not hesitate to contact our Robotics teacher-in-charge, Mr. Nikhil Kulkarni, if you have any questions. His email ID is nikhilkulkarni@misdoha.com

Have a happy and fun learning experience!

Warm regards,



Meenal Bakshi
School Principal