

WINTER CAMP 2024



ROVE
DOWNTOWN DUBAI

FUTURE READY

AGES 10-14

| Week | STEM (9:30 to 10:30 am) | Robotics/Coding (10:45 am to 12:15 pm) | Lifeskills (12:45 to 2 pm) |
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| Week 1 16 - 20 Dec 2024 | <u>Creative Robotics for Real-World Communication</u> Through building a drawing robot and a Morse code communicator, children will explore the powerful role of robotics in artistic expression and essential communication methods, developing both creativity and technical skills. | <u>Future Mobility: AI-Powered Robotics</u> Children will explore the world of autonomous vehicles by building a driverless car model, gaining insights into how artificial intelligence and robotics are shaping the future of transportation and safety. | <u>Motorforge - Design a motor</u> Discover the components that make up a motor and master the design process, including a hands-on introduction to 3D modelling to craft the motor's exterior. |
| Week 2 23 - 27 Dec 2024 | <u>Smart Investment for Teens</u> Through interactive lessons, we educate the students about investment opportunities, such as gold, real estate, and the stock market including stock symbols, quotes, and indices, enabling them to make informed financial decisions. | <u>Smart Investment for Teens</u> (continued) | <u>Smart Investment for Teens</u> (continued) |
| Week 3 30 Dec 2024 - 3 Jan 2025 | <u>Microgravity Science Lab</u> Children dive into the physics of space by conducting microgravity experiments with accelerometers, discovering how altered gravity impacts objects and gaining insights into the challenges of conducting science in space. | <u>Mission: Space Solutions</u> Taking on the NASA Space App Challenge, children will design an app to support astronauts, learning to solve real-world problems in space exploration and understanding the importance of technology in the future of human space travel. | <u>Engineering with Unikobo</u> Design and program robots using customised Arduino-based kits to create solutions applicable to the real world, focusing on sustainability. |

Timings: 9:30am to 2 pm

Drop-off timings: 8:30am onwards

Break timings: 10:30am to 10:45am (short break)

& 12:15pm to 12:45pm (lunch break)

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