SHARD CENTER®

FOR INNOVATION

Giving wings to your Imagination

Founder's Message

The **Shard Center for Innovation** represents our profound belief in the power of transformative education in emerging technologies. Our vision is to shape the future of society by "giving wings to your child's imagination" and providing them hands on experiential learning that equips individuals with the skills, knowledge and mindset needed to thrive in a rapidly evolving world.

I am privileged to lead this initiative and have full confidence in the passion and expertise of the ***Shard Center for Innovation*** team. Together with our esteemed business associates and patrons, we are poised to realize our vision of empowering individuals and organizations to embrace innovation, drive change and create a brighter tomorrow for all.

Pankaj Kumar
Founder & Managing Director

Vision:

To be the global catalyst for transformative learning and innovation, empowering individuals and organizations to thrive in the age ofemerging technologies.

Mission:

To empower individuals & organisations to harness the full potential of emerging technologies through world-class training, pioneering innovation, and strategic consulting that transforms capability into competitive advantage, establishing ourselves as a leading force in technology enablement by 2035.

Overview:

At **Shard Center for Innovation**, we thrive to create a future society through transformative education in upcoming technologies, human skills and management practices world wide. We excel in unparalleled programs in cutting edge disciplines like **Artificial Intelligence, Drone, Machine Learning, Robotics and Internet of Things (IoT), 3D Printing** etc.

Through excellence and innovation, we ignite young minds to a distinct place in the ever evolving professional landscape. Our eminent faculty and state of the art facility provides a fully involved and unique learning experience to our participants into an ever evolving modern world.

Our Expertise

AL & ML

AI/ML introduces students to intelligent technologies that allow machines to think, learn and make decisions.

Students Explore:

- Image recognition, voice processing
- Machine learning applications and decision-making systems
- Real-life applications of AI across industries

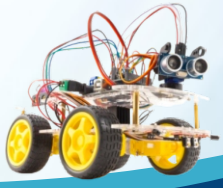
Outcome: Develops analytical intelligence, logical reasoning and future career readiness.

Drone

Drone technology introduces learners to aerial systems, flight mechanics and automation concepts.

Students Explore:

- Drone structure, flight principles, propellers
- Remote operations, safety protocols, and real-world applications
- Use cases in photography, surveying, agriculture, and security



Robotics

Robotics is the science of designing, building and programming intelligent machines that can perform tasks autonomously.

Students Explore:

- Structure and working of robots using Actuators, sensors and controllers
- Design thinking through hands-on model building
- Coding fundamentals and automation concepts

Outcome: Develops analytical intelligence, logical reasoning and future career readiness.

Internet of Things (IOT)

Robotics is the science of designing, building and programming intelligent machines that can perform tasks autonomously.

Students Explore:

- Sensor-based systems and IOT communication protocols
- Monitoring serail data, data collection (physical data to digital & analog signals) and automation
- Developing smart devices in house hold appliances, safety systems and automation projects

Outcome: Builds system-thinking, technical awareness and real-world problem-solving skills.

3D Printing

3D Printing transforms digital designs into real, tangible objects using advanced printing technologies.

Students Explore:

- 3D/2D modeling and slicing
- Product prototyping and functional design
- Engineering basics and innovation methodologies

Outcome: Encourages creativity, product thinking and hands-on innovation.

Design Thinking

Design Thinking is a structured innovation approach to solve real-world problems creatively.

Students Explore:

- Problem identification and empathy mapping
- Ideation, prototyping, testing and iteration
- Team collaboration and critical thinking

Outcome: Develops creativity, leadership, teamwork and entrepreneurial mindset.

Young Scientists Programme

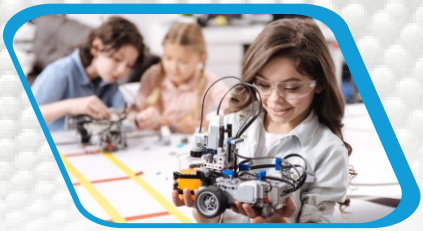
Our **Young Scientist Program** is a structured, age-wise curriculum designed to nurture curiosity, develop skills, and prepare students for future careers through experiential learning.Crafted in accordance with the New Education Policy '2020', we offer our students an unparalleled, hands on learning experience meticulously curated to prepare them for the forefront of innovations.

Catering to the needs of different age groups, i.e. 7 to 10 years (Primary), 11 to 14 years (intermediate) and 15 to 18 years (Advanced), our programs ensure that the children of various ages benefit from this valuable learning opportunity as per their individual growth expectations.

Primary (7-10 Yrs)

Fun Learning | Curiosity Building | Creative Exploration

A joyful introduction to technology through play-based, hands-on learning.



Curriculum Highlights:

- **Robotics:** Build simple robots and understand motion through fun activities
- **IoT:** Explore smart objects like automated lights and alarms
- **AI/ML:** Learn AI basics through games, stories and interactive tools
- **3D Printing:** Discover how ideas turn into physical models
- **Drone Technology:** Learn basic drone parts, safety and observation
- **Design Thinking:** Identify simple problems and express solutions creatively

Learning Outcome: Builds curiosity, creativity, confidence and foundational tech understanding.

Intermediate (11-14 Yrs)

Skill Development | Logical Thinking | Practical Learning

Focus on hands-on projects, coding basics and system development.

Curriculum Highlights:

- **Robotics:** Build and program robots using sensors and motors
- **IoT:** Develop smart systems using real-world sensors
- **AI/ML:** Explore image recognition, voice assistants, and AI tools
- **3D Printing:** Design and print functional 3D models
- **Drone Technology:** Learn flight controls, stability, and applications
- **Design Thinking:** Solve real-life challenges using structured innovation methods

Learning Outcome: Enhances analytical thinking, coding logic and practical innovation skills.

Advanced (15-18 Yrs)

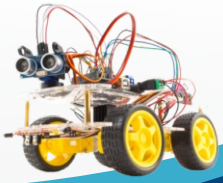
Innovation | Real-World Application | Career Readiness

Advanced learning designed for technology mastery, project development and career orientation.

Curriculum Highlights:

- **Robotics:** Advanced automation, coding, and robotics projects
- **IoT:** Full-scale smart solutions like home automation & monitoring systems
- **AI/ML:** Build machine learning models and explore industry applications
- **3D Printing:** Advanced product design and functional prototyping
- **Drone Technology:** Drone assembly, regulations, surveying & automation projects
- **Design Thinking:** Solve complex real-world problems with innovation frameworks

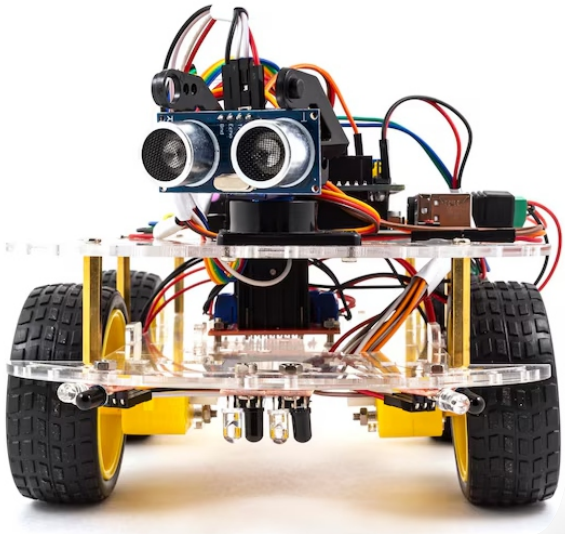
Learning Outcome: Builds innovation leadership, technical excellence, project mastery and career preparedness.



Salient Features

- The programme offers hands on experiential learnings on Al/ML, Drone, Robotics, Design Thinking, IoT and 3D Printing.
- Extensive curriculum covering all theoretical & practical aspects of these disciplines.
- **Tailor made for the age groups:** 7-10 Yrs, 11-14 Yrs and 15-18 Yrs. Particularly in the light of the New Education Policy '2020'.
- The primary level includes block based Coding, Pre-Robotics, Scratch, introduction to the Drones and preambles of the Design thinking.
- The Intermediate level covers Robotics, Drone, Al/ML, medium levels of programming, Design thinking, 3D basics and IoT basics.
- The Advanced level delves into Al/ML programming, Robotics, Data science, 3D Printing, Design thinking and IoT applications.
- To make them 'Industry Ready', it also includes special sessions on Career counselling.
- World class educational environment under Expert mentorship in a creative and joyful environment.

Young Scientists Programme



National & International Partnership / Accreditation

Association for the Advancement of Artificial Intelligence

Skill India
कौशल भारत - कुशल भारत

nasscom

Why To Choose Shard Center for Innovation?

At the **SHARD Center for Innovation**, we are committed to creating the future society through transformative education in emerging technologies, human skills and management practices world wide. Here's why you should choose us:

➤ **Global Network:** Our international collaborations and partnerships provide students with a vast network of industry leaders, academicians and innovators, opening doors to global opportunities and insights.

➤ **Comprehensive Curriculum:** Our extensive curriculum covers a broad spectrum of cutting edge disciplines, including Artificial Intelligence, Drone Technology, Machine Learning, Robotics, 3D Printing, and the Internet of Things (IoT), ensuring a well rounded education.

➤ **World Class Faculty:** Learn from the best in the field. Our distinguished faculty members bring a wealth of experience and knowledge, offering unparalleled guidance and mentorship.

➤ **Industry Relevant Projects:** Engage in real world projects that address current industry challenges. Our programs are designed to be closely aligned with industry needs, providing practical and applicable skills.

➤ **Cutting Edge Infrastructure**: Our state of the art facilities and advanced technology resources provide an immersive learning environment that supports innovation and creativity.

➤ **Hands On Learning:** We emphasize experiential learning through practical engagements and hands-on projects, ensuring that students gain tangible skills and experience.

Join us on this journey of excellence and innovation. Ignite your potential at **SHARD Center for Innovation** and become a leader in the ever evolving professional landscape.

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