March 20, 2022
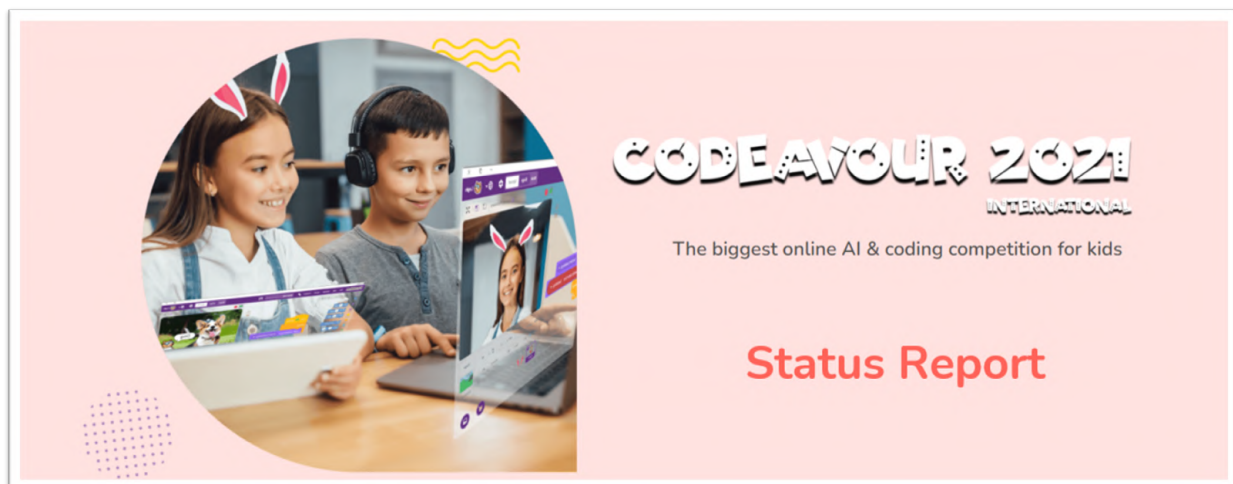

Introduction

[Codeavour 2021](#) the biggest online AI & Coding competition for Kids was organised from 20th October 2021 to 10th Feb 2022 with an aim to motivate students from age 7 to 18 years old to create innovative AI projects and make the world a better place with their awesome AI and coding skills. It was the 3rd edition of the Codeavour competition which STEMpedia organises annually. The Codeavour competition aims to motivate kids to

- Develop an interest in STEM.
- Develop critical thinking, creativity, collaboration & communication – the four C's of the 21st-century skills.
- Become sensitive toward the well-being of the world.

Codeavour 2021 - Impact

- **69525 teams** of students from the **68 countries** registered on the official website of Codeavour 2021.
- **607 school partners** were made from **17+ countries.**
- **55 Training partners** were onboarded to provide training to the participants from all across the world.
- **15 Community partners** were made to make competition accessible for kids from underprivileged areas.
- **20+** Artificial Intelligence and Coding Bootcamps (5-days**)** and **150+** orientation/doubt sessions were organized by the Codeavour team.
- **More than 80 winners** from **16 countries** were selected. 45% that is 38 of the winners are from India. We have 9 winners from Palestine, 7 from Jordan, 6 from Egypt, and 3

from South Africa, Syria, and UAE. We also have winners from Iraq, Thailand, Indonesia, Turkey, Tunisia, Algeria, Singapore and USA.

● **80+ exciting prizes** like Laptops, Tablets, AI & Robotics kits of a **total worth $15,000** were distributed to the winners.


In Codeavour 2021, the students participated either individually or in a team of two under the following age categories:

● **Elementary:** 7 - 10yrs Old
● **Junior:** 11 - 14yrs Old
● **Senior:** 15 - 18 yrs Old

The following mentioned were the themes which participants chose to make innovative projects:

1. Strengthen the Health Infrastructure
2. Automate the Surroundings
3. Smart Transportation Systems
4. Entertain the World
5. Save the Environment
6. Explore the outer world
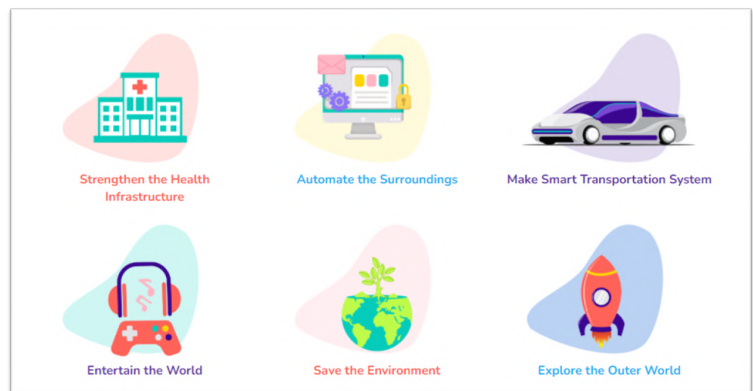
Competition Website: https://codeavour.org/

The following mentioned were the four easy steps to participate in the competitions:

How to Participate?

1 Registrations open on 20ⁿᵈ October 2021.

2 Develop skills with interactive tutorials and AI Bootcamps.

3 Submit your innovations by 10ᵗʰ February 2022.

4 Find out the champions on 20ᵗʰ March 2022.

To motivate maximum students between ages 7-18 yrs to actively take part in the competition, we kept more than 80 prizes of worth USD15000 in total.

Prizes

Laptops

Tablets

AI & Robotics Kits

Scholarships & Coupons

STEM & DIY Kits

Hero Geared Cycles

Certificates & Medals

More than 80 Prizes in a total of worth **$15,000**

Registrations

The registrations for participation in the competition was started on 20th October 2021 and closed on 25th Jan 2022.

69525 teams of students from the following **68 countries** registered on the official website of Codeavour 2021. The **top 20 countries** with the highest participation are highlighted in green colour.

S.No.	Code	Country Name	S.No.	Code	Country Name	S.No.	Code	Country Name
1	AE	Arab Emirates	24	HR	Croatia	47	PH	Philippines
2	AF	Afghanistan	25	HU	Hungary	48	PK	Pakistan
3	AL	Albania	26	ID	Indonesia	49	PS	Palestine
4	AQ	Antarctica	27	IL	Israel	50	PT	Portugal
5	AU	Australia	28	IN	India	51	QA	Qatar
6	BG	Bulgaria	29	IQ	Iraq	52	RO	Romania
7	BO	Bolivia	30	IR	Iran	53	RU	Russian Federation
8	CA	Canada	31	IS	Iceland	54	SA	Saudi Arabia
9	CL	Chile	32	IT	Italy	55	SD	Sudan
10	CN	China	33	JO	Jordan	56	SE	Sweden
11	CU	Cuba	34	JP	Japan	57	SG	Singapore
12	CZ	Czechia	35	KE	Kenya	58	SN	Senegal
13	DE	Germany	36	KR	Korea	59	SY	Syrian Arab Republic
14	DZ	Algeria	37	KW	Kuwait	60	TD	Chad
15	EC	Ecuador	38	KY	Cayman Islands	61	TH	Thailand
16	EG	Egypt	39	KZ	Kazakhstan	62	TN	Tunisia
17	ES	Spain	40	LA	Laos	63	TR	Turkey
18	FR	France	41	LK	Sri Lanka	64	TW	Taiwan
19	GB	United Kingdom	42	LR	Liberia	65	US	United States of America
20	GE	Georgia	43	MO	Macao	66	VN	Viet Nam
21	GH	Ghana	44	MY	Malaysia	67	ZA	South Africa
22	GM	Gambia	45	NG	Nigeria	68	ZW	Zimbabwe
23	GR	Greece	46	PE	Peru			

Collaborations

To take this competition to every corner of the world, we collaborated with schools, activity centres, STEM/STEM businesses, and NGOs all over the world.

Academic Partners

We onboarded schools and other educational institutions with us as academic partners, Total of 607 academic partners was made, the following mentioned are the country-wise details:

S.No.	Country	Partners	S.No.	Country	Partners
			Academic Partners		
1	Algeria	6	**10**	Palestine	11
2	Australia	1	**11**	Philippines	1
3	Bahrain	1	**12**	Saudi Arabia	3
4	Egypt	3	**13**	South Korea	2
5	Ghana	5	**14**	Singapore	1
6	India	548	**15**	South Africa	3
7	Iraq	1	**16**	Tunisia	1
8	Jordan	1	**17**	United Arab Emirates	8
9	Laos	4	**18**	Others	7
		Total number of Academic Partners - 607			

Know more about Academic Partners: https://codeavour.org/academic-partner/

Training Partners

We onboarded businesses who provide training or services to students in the STEM, STEAM, Coding, Robotics or AI education sector, with us as a training partner, based on contribution committed, we categorised them as Local, Regional, Global partners. As mentioned below, we made 55 training partners:

Training Partners	
Global Partners	5
Regional Partners	17
Local Partners	33
Total number of Training Partners - 55	

Know more about Training Partners: https://codeavour.org/partner/

Community Partners

We onboarded NGOs or NPOs, who is working with underprivileged kids, with us as a community partner, the following mentioned are the community partners:

Community Partners	
Agastya International Foundation	India
Atal Innovation Mission	India
Atfal Masr Foundation	Egypt
Bcm Foundation	India

Gurushala (Pratham Education)	India
I start Valley	USA
Jodo	India
Ministry Of Education	Palestine
National Institute Of Education	Singapore
Sd Initiatives	India
Skooqs	Nigeria
Tunisian Ministry Of Education	Tunisia
Robotex India	India
Coding Tale	India

Know more about Community Partners: https://codeavour.org/community-partners/

Social Outreach

1. Agastya International Foundation

We collaborated with Agastya international foundation to make this competition accessible for underprivileged children. Agastya is a cause - not just an organization. Its vision is of a creative India. Its mission is "to spark curiosity, nurture creativity, and instil confidence" in economically disadvantaged children and government school teachers by bringing imaginative and innovative hands-on science education, project-based and peer-to-peer learning to schools, towns, and villages across India.

We trained 35+ educators of the Agastya foundation on Artificial Intelligence. These educators reached economically disadvantaged children in rural India via Agastya's Mobile Labs and provided training across various states in an online and offline manner. 30+ Schools are reached, 800+ Students were trained in coding and Artificial Intelligence and 100+ teams participated in the Codeavour competition.

2. Atal Innovation Mission - Atal Tinkering Labs

With a vision to 'Cultivate one Million children in India as Neoteric Innovators', Atal Innovation Mission is establishing Atal Tinkering Laboratories (ATLs) in schools across India. The objective of this scheme is to foster curiosity, creativity, and imagination in young minds; and inculcate skills such as design mindset, computational thinking, adaptive learning, physical computing, etc.

With the support of Atal Innovation Mission, NITI Aayog's team, we reached out to Atal tinkering labs all across India, and provide the opportunity to the young innovators to make them aware of the latest technologies like AI & machine learning, and invited them to participate in the competition.

3. Robotex India

Robotex India is a non-profit organisation working to provide STEAM, Robotics, Artificial Intelligence, Machine Learning, IoT education to Government Schools in urban, tribal and rural areas.

With Robotex India's support, we enabled more than 2000 rural and government school students to learn the latest technologies and take part in the Codeavour competition.

4. Coding And Robotics Education in Schools Scheme(CARES), Goa

CARES, PMU-DTE Goa, the Education Partner for Codeavour 2021 is on a mission to develop computational and design thinking skills along with programming integrated into the school level education for the State of Goa to prepare students for the demands of the 21st-century digital world. Hence, all associated students from class 6th to 8th were provided with an opportunity to participate in Codeavour 2021 International, To motivate the students, state-level winners were selected from Goa.

5. Gurushala

Gurushala is a free-of-cost online teacher training and professional development initiative implemented by Pratham Education Foundation. The initiative aims to build the capacity and skills of school teachers to effectively use digital technology to positively impact the learning levels of students.

We collaborated with Gurushala and provided the content for blogs on AI & Coding Education and also provided well-curated course content for Introduction to Programming and Artificial Intelligence for Kids courses. We organised a dedicated workshop for Gurushala Teachers. Gurushala helped us to spread the word about competition among their student and teacher communities.

6. BCM Foundation

Lala Bahadur Chand Munjal Charitable Trust was established in 1970 by the great entrepreneurs and philanthropists Munjals of the Hero group, with the objective to provide liberal, scientific and technical education and for that purpose to build schools and educational institutions.

The Foundation, realizing that this century needs critical thinking, creativity and innovation, and digital and ICT learning, along STEMpedia has taken a mission to provide AI Education with hands-on experience to One Lakh students through AI Bootcamps. During Codeavour 2021, More than 20 Mission AI Bootcamps were organised in which thousands of students participated and learn about coding and Artificial Intelligence.

7. Overseas

To make competition accessible to a maximum of the students, Codeavour partners across various countries collaborated with the non-profitable organisations as mentioned below and free access to competition and learning resources was provided:
- Tunisian Ministry of Education, Tunisia
- Ministry of Education, Palestine
- Atfal Masr Foundation, Egypt
- National Institute of Education, Singapore

Training Programs

To motivate and teach AI & ML concepts to the students, we conducted free Mission AI boot camps(5-days), 20+ Bootcamps were organized, and to guide the students and teachers about the registration procedure of Codeavour 2021, we conducted orientation sessions in online and offline form. A total of 150+ orientation/doubt sessions were organized. The following are a few glimpses of orientation sessions conducted by the Codeavour team:

Codeavour Training partners were also organized training sessions for students across various parts of the globe, the following are the few glimpses:

Important Events

Inauguration

Codeavour 2021 was launched on 20th October 2021 with a grand ceremony that streamed live on YouTube in presence of our following honourable dignitaries:

1. Asha Jadeja Motwani
   Founder, Motwani Jadeja Foundation, USA
2. Umakant Soni
   Co-founder & CEO, ARTPARK, India
3. Pankaj Kumar Verma
   Co-founder & CTO, STEMpedia
4. Dr Wendy Muhlhauser
   Founder I Author I Educator, USA
5. Sally Kimangu
   CEO, Destination Imagination in Africa

Watch it on YouTube: https://youtu.be/AUjtPzVikXQ

Award Ceremony

Codeavour 2021 was concluded on 20th March 2022 with an Award ceremony that streamed live on YouTube in presence of our following honourable dignitaries:

1. Asha Jadeja Motwani, Founder, Motwani Jadeja Foundation, USA
2. Umakant Soni, Co-founder & CEO, ARTPARK, India
3. Subhashis Banerjee, Co-founder & CIO, ARTPARK, India
4. Pankaj Kumar Verma, Co-founder & CTO, STEMpedia
5. Dr Prem Kumar, Executive Director, BCM Foundation(managed by Hero Group)
6. Mr. Saiesh Gandhi, Technical Officer, Project Management unit, CARES, Goa

Watch it on YouTube: https://youtu.be/gIQvDAPUSV4
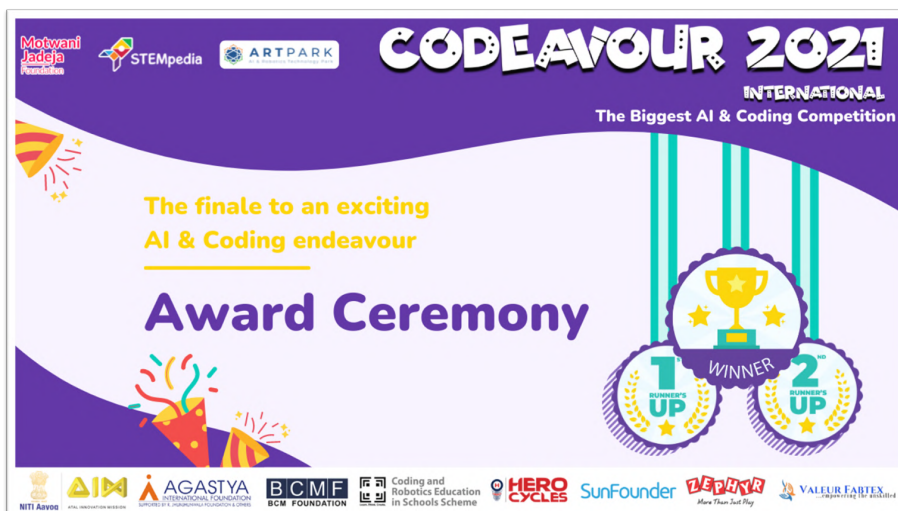
Project Submissions & Results

Codeavour 2021 International, the biggest AI and coding competition for students has ended successfully. During this edition, We made 500+ School Partners, 60+ Partners and 15+ Community partners. With the collective efforts of all collaborators, 68000+ Teams from 65+ Countries registered for the competition learned AI & Coding concepts via free boot camps and thousands of unique AI & Coding projects were submitted by young students to make the world a better place with their awesome AI and coding skills.

From various age groups and categories, We selected more than 80 winners which are from 16 countries. 45% that is 38 of the winners are from India. We have 9 winners from Palestine, 7 from Jordan, 6 from Egypt, and 3 from South Africa, Syria, and UAE. We also have winners from Iraq, Thailand, Indonesia, Turkey, Tunisia, Algeria, Singapore and USA. The winners will receive exciting prizes like Laptops, Tablets, AI & Robotics kits of a total worth $15,000.

Students created innovative projects such as

- Smart Shopping Cart and Self Checkout Grocery Store using Machine Learning
- Automated Online Doctor, Pharma Doctor, Portable Clinic
- Smart Cities with AI, IoT, and Robotics, Self Driving Cars, Alexa
- Intelligent Garbage Sorter Machines and Bins
- Smart Fridges, Smart Bag, Smart Parking Systems
- Face recognition based Attendance Systems and Classroom Management Systems
- Fire Fighter, Squid Games, Pet Feeders, Sign Language to Text Translators.

The list is long and very encouraging. Check out all the winning projects from here: https://codeavour.org/results/

All the submitted projects are available here: https://codeavour.org/all-projects/

Sponsored By

Title Sponsor

Motwani Jadeja Foundation

STEMpedia

Hosted By

ARTPARK
AI & Robotics Technology Park

Accredited By

STEM ACCREDITED
EDUCATIONAL EXPERIENCE

AI Education Sponsors

VALEUR FABTEX
...empowering the unskilled

Prize Sponsor

HERO CYCLES

SunFounder

ZEPHYR
More Than Just Play

Education Partner

Coding and Robotics Education in Schools Scheme
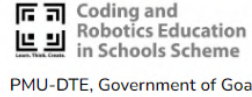
PMU-DTE, Government of Goa

Community Partner

Gurushala
Inspiring To Teach

NITI Aayog — ATAL INNOVATION MISSION

AGASTYA INTERNATIONAL FOUNDATION

BCMF
BCM FOUNDATION

iSTART VALLEY
TRANSFORMING IDEAS INTO STARTUPS

JODO

Robotex India

Community Partners

AGASTYA INTERNATIONAL FOUNDATION INDIA	ATAL INNOVATION MISSION INDIA	ATFAL MASR FOUNDATION EGYPT	BCMF INDIA	CODING TALE INDIA
GURUSHALA INDIA	ISTART VALLEY UNITED STATES OF AMERICA	JODO INDIA	MINISTRY OF EDUCATION PALESTINE	NATIONAL INSTITUTE OF EDUCATION SINGAPORE
	SD INITIATIVES INDIA	SKOOQS NIGERIA	TUNISIAN MINISTRY OF EDUCATION TUNISIA	
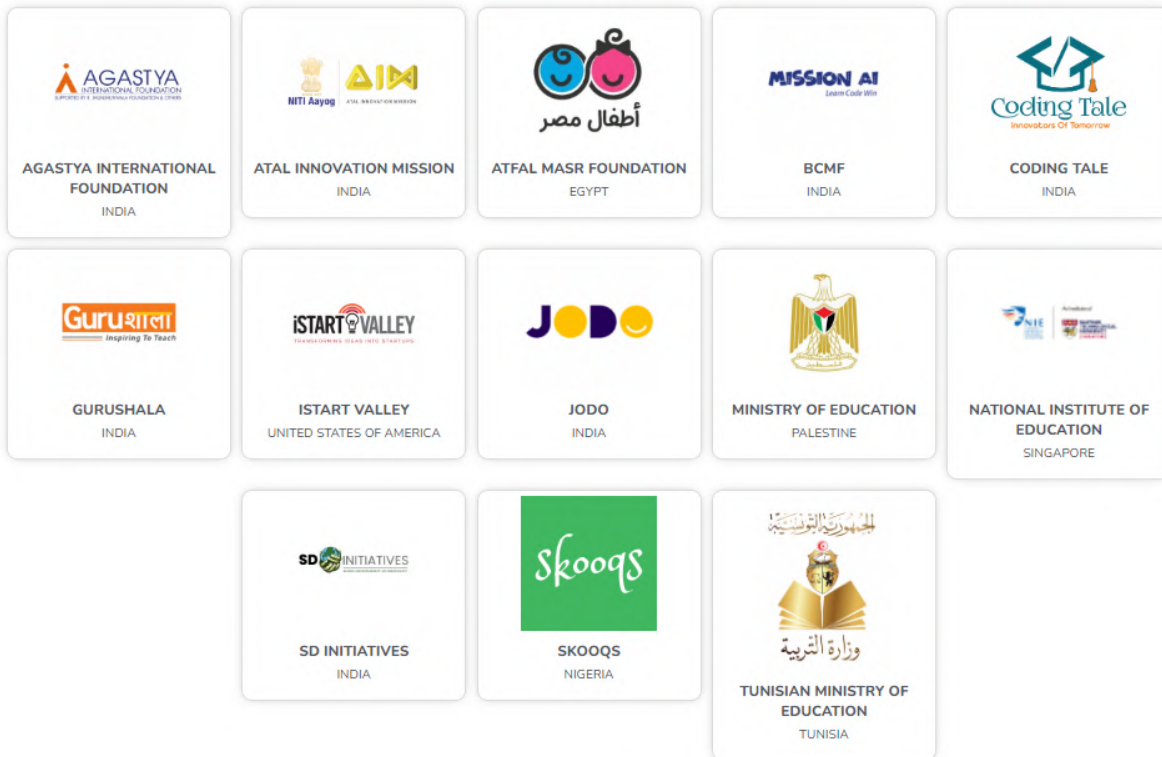
Training Partners

All | Global Partner | Local Partner | Regional Partner

AFRICAN LEADERS IN AVIATION
SOUTH AFRICA
LOCAL PARTNER

AL-JAZARI ROBOTICS
ALGERIA
LOCAL PARTNER

APEX CODING ACADEMY
EGYPT
LOCAL PARTNER

BINARY SCHOOL
SOUTH AFRICA
REGIONAL PARTNER

BRAINIACS STEM AND ROBOTICS
NIGERIA
LOCAL PARTNER

CENTER FOR DIGITAL TECHNOLOGY
INDIA
REGIONAL PARTNER

CK BUSINESS SOLUTIONS (CKBS)
GHANA
LOCAL PARTNER

CREATIVE LEARNING ACADEMY
TURKEY
LOCAL PARTNER

DIGITAL LEARNING CENTER PASIR GUDANG
MALAYSIA
REGIONAL PARTNER

DUCK LEARNING
SINGAPORE
LOCAL PARTNER

EDUSEED
INDIA
LOCAL PARTNER

EUREKA EDUCATION
INDIA
REGIONAL PARTNER

FANTASIA ACADEMY
EGYPT
LOCAL PARTNER

GET SET GO CLASSES
INDIA
LOCAL PARTNER

GOGLOBALWAYS
INDIA
LOCAL PARTNER

INEX
THAILAND
GLOBAL PARTNER

INFORMATICS TUNISIAN ASSOCIATION (ITA)
TUNISIA
LOCAL PARTNER

INN STEM LAB
INDIA
LOCAL PARTNER

INNOLAB
INDIA
GLOBAL PARTNER

IOT KIDS
IRAQ
REGIONAL PARTNER

KIDS FUTURE COMPANY LIMITED
THAILAND
LOCAL PARTNER

KIDS2GENIUS PVT LTD
INDIA
REGIONAL PARTNER

KIDTRONICS
AUSTRALIA
LOCAL PARTNER

LITTLE ENGINEER ROBOTICS ACADEMY
INDIA
REGIONAL PARTNER

MAKERSPLACE
GHANA
LOCAL PARTNER

NEXZENBOT ROBOTICS AND CODING INSTITUTE
INDIA
LOCAL PARTNER

ON MY OWN TECHNOLOGY PVT LTD
INDIA
LOCAL PARTNER

ONEHUB ROBOTICS ACADEMY
NIGERIA
LOCAL PARTNER
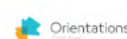
ORIENTATIONS CENTRE
SUDAN
REGIONAL PARTNER

PI SPACE SCIENCE EDUCATION CENTER
PAKISTAN
LOCAL PARTNER

PROBINO SOLUTION MALAYSIA LOCAL PARTNER	**PURE MINDS EDUCATION SUPPORT SERVICES, DUBAI** UNITED ARAB EMIRATES LOCAL PARTNER	**PURPOSE SMART EDUCATION** PALESTINE GLOBAL PARTNER	**REALLY EDUTECH** KOREA, SOUTH LOCAL PARTNER	**ROBOTNA** JORDAN GLOBAL PARTNER
ROBOTX CLUB TUNISIA REGIONAL PARTNER	**RSE ACADEMY** PHILIPPINES LOCAL PARTNER	**SCIENCE KIDZ** INDIA REGIONAL PARTNER	**SCRATCHERS CUBA** CUBA LOCAL PARTNER	**SHIVASHAKTI EDUMART** NEPAL REGIONAL PARTNER
SRUJAN STEM LAB INDIA LOCAL PARTNER	**STEAM KIDS CLUB** IRAQ LOCAL PARTNER	**STEM ROBOTICS LAOS** LAOS REGIONAL PARTNER	**STEMBRIDGE LABS PRIVATE LIMITED** INDIA REGIONAL PARTNER	**STEMIANS** INDIA REGIONAL PARTNER
TECHADEMICS EGYPT REGIONAL PARTNER	**TECHB** INDIA GLOBAL PARTNER	**TENBYTEN** INDIA LOCAL PARTNER	**TENBYTEN** INDIA LOCAL PARTNER	**UK ROBOTIX INC.** INDIA LOCAL PARTNER
UNIQUE WORLD ROBOTICS LLC UNITED ARAB EMIRATES LOCAL PARTNER	**WEBFILLS** INDIA REGIONAL PARTNER	**WHIZIFI ROBOTICS LAB** INDIA REGIONAL PARTNER	**WINNERS FOUNDATION CENTER** INDIA GLOBAL PARTNER	**ZAIN IRAQ** IRAQ LOCAL PARTNER

Academic Partners

A G HIGH SCHOOL — INDIA	**A. J. DE ALMEIDA HIGH SCHOOL** — INDIA	**AARTI MEMORIAL PUBLIC SCHOOL** — INDIA
ABHINAV VIDYAMANDIR, MOLLEM — INDIA	**ACADEMIC HEIGHTS PUBLIC SCHOOL** — INDIA	**ADARSH V.V. HIGH SCHOOL** — INDIA
ADARSH VIDYALAYA, MANDIA — INDIA	**AIM ENGLISH MEDIUM HIGH SCHOOL** — INDIA	**AIM SALCETE HIGH SCHOOL, RUMDAMOL** — INDIA
AIR FORCE SCHOOL BAGDOGRA — INDIA	**AIR FORCE SCHOOL BANGALORE** — INDIA	**AJYAL INTERNATIONAL SCHOOLS** — SAUDI ARABIA
AL MADINA HIGH SCHOOL — INDIA	**AL MUSTAQBAL SCHOOL** — PALESTINE	**AL NAJAH SCHOOL** — PALESTINE
AL-AWAEL SCHOOL — PALESTINE	**AL-HIJRA SCHOOL** — IRAQ	**AL-JAZARI ROBOTICS SCHOOL** — ALGERIA
ALMAARIF SCHOOL — ALGERIA	**ALORNA PANCHYAKROSHI HIGH SCHOOL** — INDIA	**AMEENIYA HIGH SCHOOL** — INDIA
AMERICAN SCHOOL OF PALESTINE — PALESTINE	**ANAND NIKETAN MANINAGAR** — INDIA	**ANANT SCHOOL OF EXCELLENCE** — INDIA
ANJUMAN HIMAYATUL ISLAM HIGH SCHOOL — INDIA	**ANJUMAN NURUL ISLAM HIGH SCHOOL** — INDIA	**APPLE INTERNATIONAL COMMUNITY SCHOOL** — UNITED ARAB EMIRATES
ARMY PUBLIC SCHOOL, KAMARAJ ROAD, BANGALORE — INDIA	**ASHOK VATIKA PUBLIC SCHOOL** — INDIA	**ASHOKA PUBLIC SCHOOL SARANGARAH** — INDIA
ASSAGAO UNION HIGH SCHOOL — INDIA	**ASSUMPTA CONVENT HIGH SCHOOL SARZORA** — INDIA	**AUSTRALIAN INTERNATIONAL SCHOOL** — LAOS
AUXILIUM HIGH SCHOOL — INDIA	**AUXILIUM HIGH SCHOOL BENAULIM** — INDIA	**AZMANE HIGH SCHOOL** — INDIA
B R A SARVODAYA INTER COLLEGE — INDIA	**BAL BHARATI PUBLIC SCHOOL BRIJ VIHAR** — INDIA	**BAL VIDYA MANDIR SR.SEC SCHOOL** — INDIA
BALBHARATI VIDYAMANDIR — INDIA	**BARABHUMI HIGH SCHOOL** — INDIA	**BARODA HIGH SCHOOL, DANTESHWAR** — INDIA