2023-24

CODEAVOUR 5.0
INTERNATIONAL

General Information
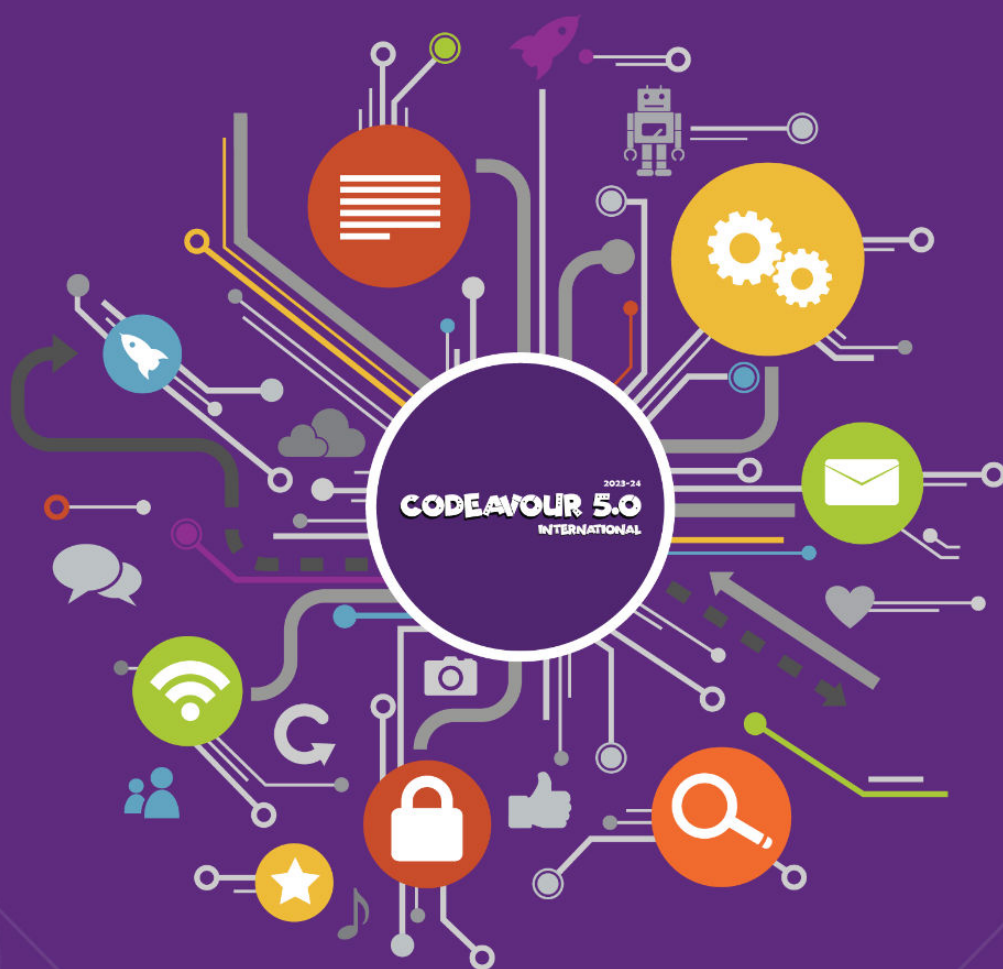
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Codeavour 2023-24

1. Introduction

Codeavour 5.0 International is the biggest AI, Coding, and Robotics competition hosted annually by STEMpedia and ARTPARK. Codeavour goes beyond competition; it is a dynamic launchpad for young minds, empowering them to delve into AI, AR-VR, Robotics, and Coding. Picture hundreds of kids from all corners of the globe, all joining together in one big, friendly competition, sharing their cool creations, and learning from each other. It's not just about winning; it's about making new friends, learning cool things, and, most of all, having a blast with 21st-century science and technology.

We aim to empower the next-gen in;

- **Upgrading** their 21st-century skills.
- **Encouraging** participation of women in STEM.
- **Building** interest in STEM fields through gamification.
- **Empathizing** with the world around us through diversity and inclusion.
- **Nurturing** youth with a global mindset in innovation and entrepreneurship.

AIM TO IMPACT
300,000+
STUDENTS

PARTNERING WITH
3000+
SCHOOLS

FORMING
100,000+
TEAMS

SPANNING ACROSS
70+
COUNTRIES

1.1. What's new

The International Fest is **aligned with the United Nations' Sustainable Development Goals (SDGs)**, fostering a purpose-driven environment where the participants can channel their AI and coding skills toward solving real-world problems and unleash their potential to do innovative projects for a sustainable future.

The new edition of Codeavour brings extraordinary opportunities for students to explore their passion for tech with the latest technologies like **Artificial Intelligence (AI), Augmented Reality (AR), Virtual Reality (VR), Machine Learning (ML), Coding, and Robotics**.

Global Physical Events

This year, we plan to make Codeavour 5.0 a globally acclaimed event ranging from **Regionals** across India, **Nationals** across the Globe and the **final showdown** in **Dubai**.

New Challenges

Introduction of 2 tracks this year: **Innovation and Entrepreneurship track** as well as an **AI Robo City Challenge** for participants to brainstorm, learn and innovate.

Workshops for Latest Technologies

We will be organizing **bootcamps** and **workshops** where students can learn about latest technologies like **AI**, **AR/VR, Machine Learning, Robotics,** etc.

Fellowships and Mentorships

Together with exciting prizes, participants will have the opportunity to **earn fellowships and mentorships** from notable organizations and universities.

1.2. Participation Benefits

Participating in the world's biggest AI and coding fest brings in a ton of benefits. These include;

- **Learning 21st-century** skills, including critical thinking, creativity, collaboration, and networking.
- **Rewards:** Exciting prizes and fellowship worth **$45000+** to be won.
- **Recognition:** Performing well can lead to recognition within the tech community, boosting career prospects.
- **Innovation:** Codeavour encourages innovative thinking. Participants might develop ideas that could be the next big thing in the tech world.
- **Access to resources:** Get free learning resources, like datasets or computational resources.
- **Career opportunities:** Companies often scout for talent during these competitions. Exceptional performers may receive job offers or internships.
- **Learning environment:** Codeavour offers a platform to **learn by doing**. You will receive feedback, workshops, and sessions alongside the competition.
- **Fellowship and Mentorship:** If you're among the "**Top 20 students**," you'll get an opportunity under Fellowship and mentorship from the Motwani Jadeja Foundation for an exciting, fun-filled **trip to Mexico** (**Woah!**) to attend an **Innovation Conference**.

- **International exposure:** Achievements in international platforms can be highlighted in resumes, LinkedIn profiles, and interviews, making you stand out in job applications or academic pursuits. Additionally, you will enhance your credibility, understand global trends, attract investors or venture capitalists for new ideas, and can also lead to invitations to other global events, conferences, workshops, or job opportunities.

2. Tracks

The 5th edition of Codeavour consists of **2 Tracks and 5 Themes** aligned with the United Nations' Sustainable Development Goals (SDGs).

2.1. Track 1 - Innovation and Entrepreneurship: Where Young Innovators Become Future Entrepreneurs

Embark on a transformative journey where innovation meets entrepreneurship in Codeavour 5.0. Harnessing the power of cutting-edge technologies to ideate, create, and bring student's entrepreneurial visions to life.

- **Save the Environment:** This theme revolves around raising awareness, promoting action, and finding innovative solutions to address environmental challenges and preserve the planet for future generations. Find the ideas that emphasize the urgent need to address various environmental issues, such as pollution, deforestation, climate change, loss of biodiversity, and resource depletion.

- **Strengthen the Health Infrastructure:** Concentrate on strengthening and improving the capacity, resilience, and accessibility of healthcare systems. Innovate to find ways to improve Infrastructure Development, Healthcare Information Systems, Medical Equipment and Technology, Human Resources and Training, Emergency Preparedness and Response.

- **Revolutionize Agriculture:** Explore ways to modernize and revolutionize the agricultural sector for improved food security, sustainability, and efficiency. We encourage participants to explore various dimensions of agricultural revolutionization, such as Sustainable Farming Practices, Smart Agriculture and Technology, Urban and Vertical Farming, Genetic Engineering and Biotechnology, and Supply Chain and Distribution.

- **Educate the World:** Work towards enhancing the quality of education and promoting gender equality. Choose this theme if your vision aligns with educating the world by creating innovative solutions to promote an inclusive learning environment.

- **Automate the Surroundings:** Explore the application of automation, robotics, and smart technologies to enhance and streamline various aspects of our surroundings and everyday life. Reimagine and redesign how automation can be applied to various settings, from homes and cities to industries. Explore various dimensions of automation in different contexts, such as Smart Homes and Living Spaces, Intelligent Cities and Infrastructure, and Industrial Automation.

2.2. Track 2 - AI Robo City Challenge: Unleashing the Power of AI and Robotics for a Sustainable Future

Engage in a thrilling competition where AI-powered robots navigate the cityscape, tackling real-world challenges and revolutionizing urban life. Showcase your expertise in AI, ML, Robotics, and Intelligent systems as you shape the future of smart cities and redefine the possibilities of urban living.

In response to the pressing global challenges of our time, such as climate change, urban congestion (extremely crowded places), and environmental degradation, **smart cities have emerged as a visionary solution**. These urban centers harness the power of advanced technologies and innovative concepts to address these complex issues proactively.

At the forefront of the battle against climate change, smart cities demonstrate an ideal shift towards sustainability. By leveraging renewable energy sources and implementing eco-friendly practices, they substantially reduce carbon emissions and mitigate environmental harm. The strategic urban planning of these cities emphasizes the creation of green spaces, ensuring clean air quality, and establishing efficient public transportation systems. Smart cities embody a harmonious blend of urban development and ecological preservation.

In the game field of **AI Robo City Challenge**, your robots will help install, repair, and manage the different tasks and challenges.
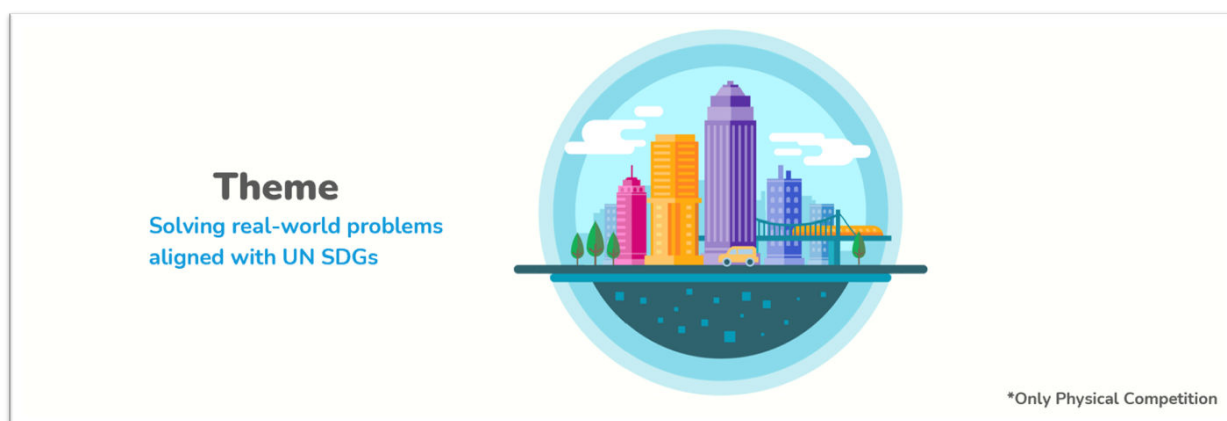
3. Age Groups, Team Size & Participation Fees

Anyone from age 7 to 18 can take part in Codeavour 5.0 International as per the following three **age groups**:

1. **Elementary:** 7-10 Years (Grade 3 to Grade 5)
2. **Junior:** 11-14 Years (Grade 6 to Grade 8)
3. **Senior:** 15-18 Years (Grade 9 to Grade 12)

Team Size: You can take part **individually** or make a team of a **maximum of three members**.

Note:

1. *It's highly recommended all team members should belong to the same age group. In the case of different age groups, the age of the eldest will be considered to determine the age group.*

2. *The starting date of the competition must be taken as a reference to calculate the age.*

Participation Fees: Every team has to pay 2000 INR (Indian participants) or 25 USD (International participants) as a registration fee. This is a one-time fee; no additional fees for regionals, nationals, and internationals will be charged.

Some countries have different registration fees as finalized by the Country Partner. Please check the details on the https://codeavour.org/.
Note:

1. *Under-represented students facing financial constraints or seeking fee discounts can access **Scholarship codes** through Codeavour 5.0's official partners.*

2. *Teams need to manage their travel and accommodations themselves or with a school or training partner's support to participate in the physical events at various levels.*

4. Stages of Participation

The competition will happen in six stages:

4.1. Stage 1: Registration

At this stage, teams will register themselves on the [registration page of Codeavour 5.0 International](#) by filling in all the required information and paying the registration fees.

Registration will be open from October 27, 2023.

Note: Bulk registration and payment options are available for official partners of Codeavour 5.0. Using this, you can register multiple teams in one time process.

4.2. Stage 2: Preparation

Once successfully registered, the next stage is preparing for the competition. Whether you are participating in Track 1 or Track 2, The Codeavour team will assist you in preparing for the competition. You can prepare in the following ways:

- **Self-Learning Resources:** The Codeavour team will provide you with self-learning resources for both Tracks, which can be accessed under the team's dashboard and easily by logging on to the official website of Codeavour 5.0.

- **Live Learning Sessions:** The official team will conduct regular live sessions on the latest technologies like AI, ML, AR, VR, Python Coding, Robotics, etc. All the registered participants will be able to access these sessions live or in recorded form.

- **Doubt-Solving Sessions:** Throughout the Codeavour, the team will also organize regular doubt-solving sessions where participants can discuss and resolve their doubts with experts associated with Codeavour 5.0 International.

- **Premium Workshops or Bootcamps:** Apart from the above free resources, Participants can also opt for premium paid programs offered by the official partner of Codeavour.

4.3. Stage 3: Submission

Once you are fully prepared, you can start working on your innovative project if you are taking part in Track 1 or can start building your robot for Track 2. Next, you must complete the **online submission** per the rules and regulations of the associated Tracks.

Note: The submitted projects will not be visible to anyone; this submission is to verify that the projects are aligned with Codeavour 5.0 guidelines. In case of numerous entries, the initial screening may happen at this level.

In case of a large number of teams, schools or academic partners are suggested to conduct a school-level competition at this stage and nominate the top performers for the regional level. However, every team has to complete a submission to earn the participation certificates.

4.4. Stage 4: Regionals

After the successful submission of your project in online mode and passing the online verification and screening, teams will be invited to the regional level of competition. All participating teams will earn regional-level certificates, and top performers will get tickets to the National Level.

Notes: The numbers and locations of regional events may vary from country to country. The details will be available with official country partners and on the official website of Codeavour 5.0.

4.5. Stage 5: Nationals

The top-performing teams of regional competitions will be invited to a national-level competition. The number of teams selected from regionals may vary from country to country based on the number of teams participating. All participating teams will earn national-level certificates, and top performers will get tickets to the International Level.

If regional-level events are not happening in countries, the submission will be evaluated online, and top performers will be invited to the national level directly.

4.6. Stage 6: International

The top-performing teams of various national-level competitions will compete in an **international showdown in Dubai, UAE**.

If any regional or national level events are not happening in any countries, the submission will be evaluated online, and top performers will be invited to the international level directly.

Notes: The dates and locations of all regional and national level competitions will be updated on the website on a time-to-time basis, and all respective teams of that region will be notified.

5. Prizes

A total of 100 prizes and fellowship worth $45000 will be distributed among top performers.

6. Impact Projections