



Excelerate. Hands On.

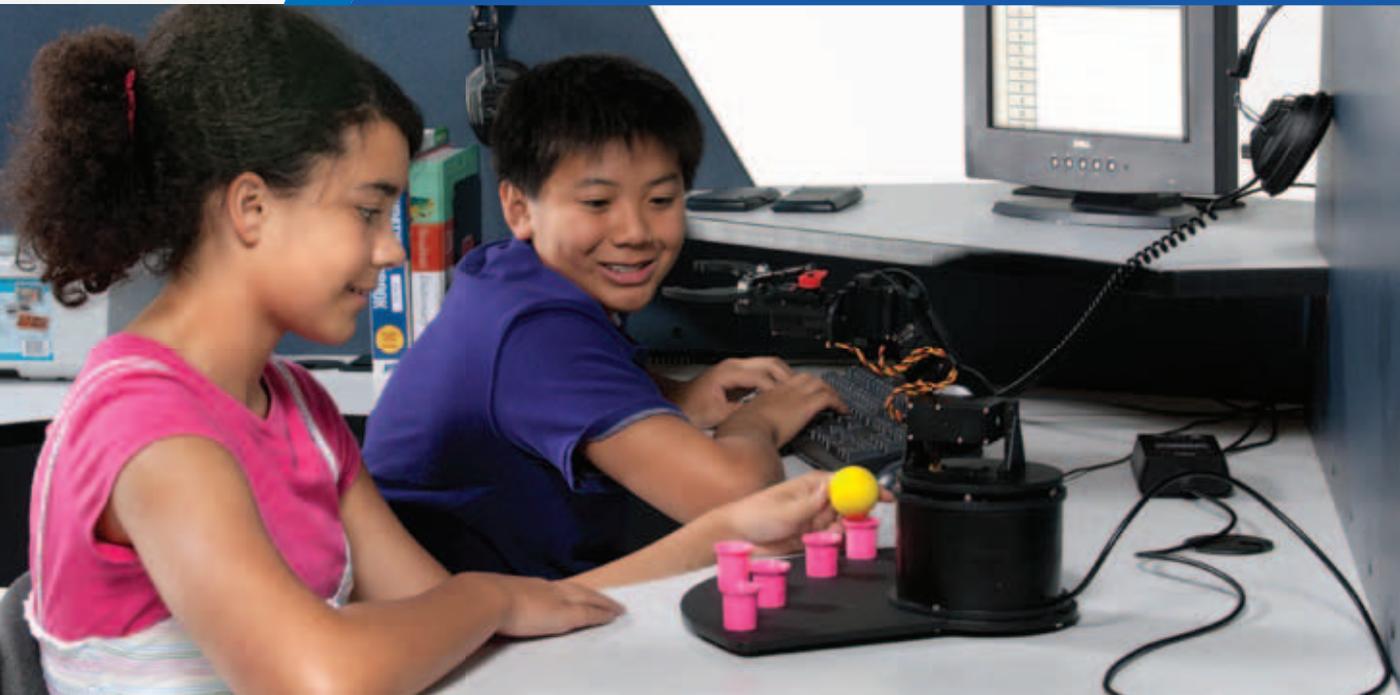


LEADING **EDUCATIONAL**
CHANGE

ATLAB STEM ACADEMY

Atlab STEM Academy is an initiative of Atlab, world's leading education training and learning solutions provider.

Atlab has partnered with some of the pioneers in STEM (Science, Technology, Engineering and Mathematics) solutions to engineer a curriculum that caters to the needs of Indian education system. Atlab STEM Academy offers more than 70 project-based STEM units, suitable for Grades 3 - 10 and each delivered through a combination of hands-on activities and individualised instruction. Designed as a complete solution to deliver CBSE, ICSC, IGCSE curriculum, through fun based activity learning methodology.



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Every student's unique learning style is accommodated in the curriculum, whether a student is a kinesthetic or visual learner, or a nonreader. Atlab STEM Academy curriculum has been designed to ensure student success through a combination of text, videos, ICT and real-world, hands-on activities. As against the traditional teacher centric classroom model, children learn by way of enquiry, exploration, questioning, debate, application, collaboration, challenge and not merely listening to what is taught on the black board. Our extensive Teaching Learning Materials (TLM) encourage

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teachers to lead the students, by overseeing and supervising the procedure of practical learning, while the students find their answers by utilising the resources and modules provided by us. The modules use age appropriate equipments and kits from Atlab STEM Academy and come with teacher guides, student worksheets, videos, ready-to-use assessments and high quality consumable items, each packaged to cater Basic, Average and Advanced achievers.

THE FRAMEWORK

Each session of the Atlab STEM Academy course contains cooperative learning activities. Every unit includes hands-on experiences and two authentic performance assessments completed by the teacher. Discovery Days are conducted at the end of every rotation. These teacher-directed activities are designed to augment the STEM content, provide opportunities for whole-class participation, and allow students additional time to review or complete unfinished assignments.



Students work with a partner to complete the curriculum, the experiences they share promote positive communication, teamwork, inquiry based learning, and social skills. The course is divided into flexible three, six or eight-week units, adaptable to the classroom, lab, or almost any educational environment. Units can be used in any number and order to achieve the school's goals and requirements. Teachers lead the activities and have full control of the curriculum. Hands-on projects teach students practical skills and how to use basic tools. Healthy competitions and creative challenges which are a part of the STEM Curriculum develop critical thinking in students.

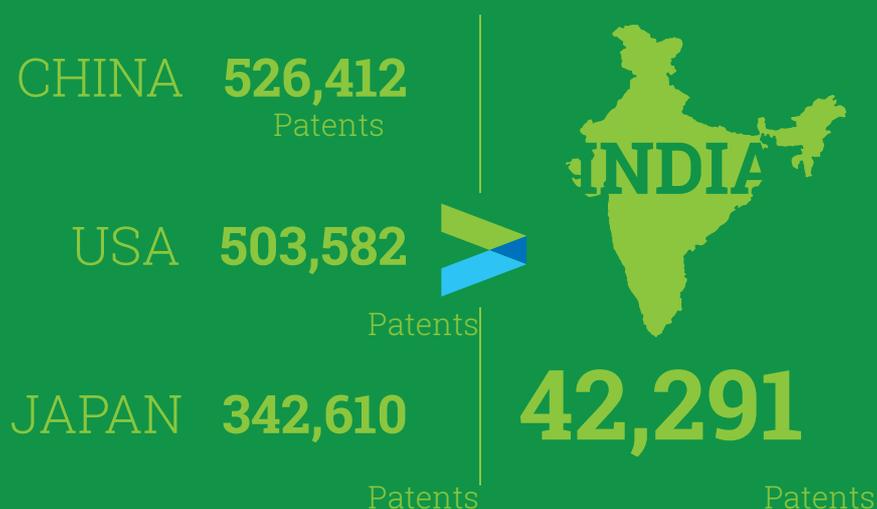
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Traditionally, science, engineering and mathematics have been taught as separate subjects, each featuring separate textbooks and practical exercises. Atlab STEM Academy integrates all these subjects along with technology to provide a hands-on, holistic approach to learning.

WHY STEM IN INDIA ?

Only 1 out of 4 engineering graduates
is employable.

Compare the patents filed across
the world*



* Source: WIPO (World Intellectual Property Organization)

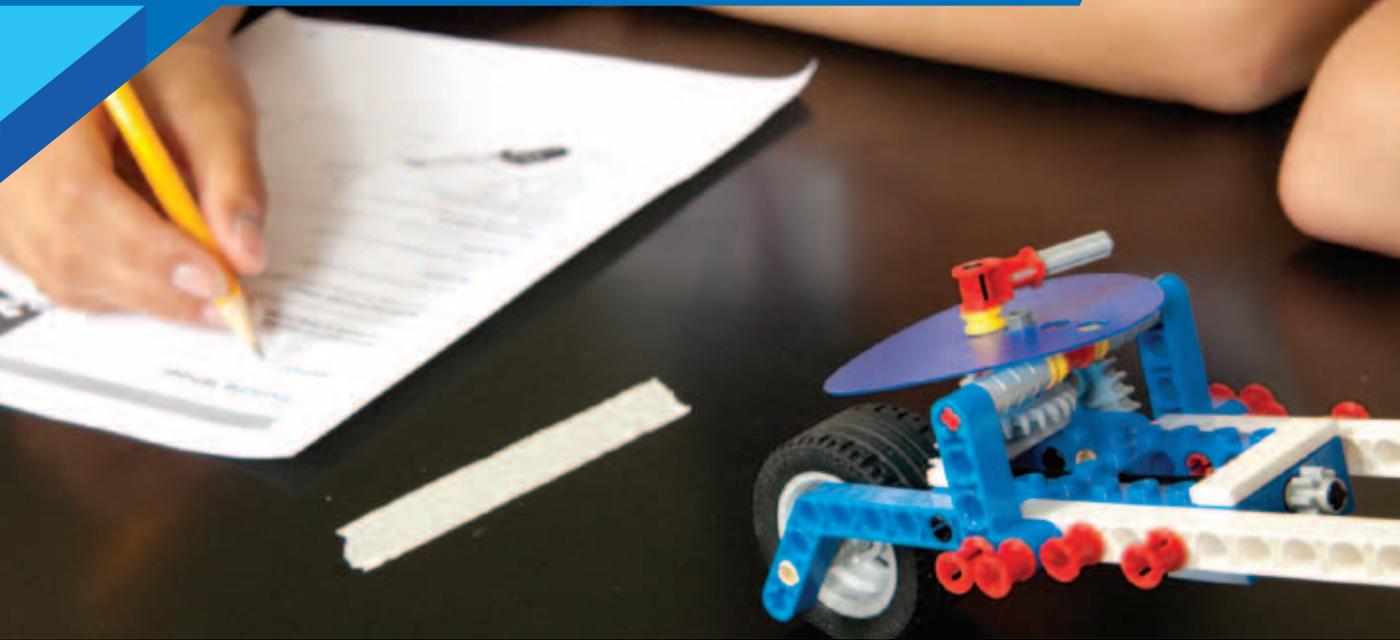
***A Literate nation not only reads.
It computes, investigates and innovates.***

Today, students passing out of many Indian higher education institutes do not possess adequate skill sets to make them employable. Skills such as analytical thinking, communication, contextual problem solving, are essential in a real work environment. Atlab STEM based skills train and equip students with knowledge and skills required to solve complex problems of today's world and its future. Moreover, Atlab STEM based learning enables students to perform better in aptitude tests and entrance examinations. More than half of India's population is below 25 years; almost 10 percent of them are between the age group of 18 – 23. If they are equipped with right knowledge and skill, they would be the innovators and thought champions of the future and drive India to become a global super power.



Solution

THE ATLAB STEM ADVANTAGE



 **Quality TLM:** Atlab has partnered with some of the world leaders in STEM based learning to provide high quality teacher guides, student worksheets, videos, ready-to-use assessments, crosswords, puzzles, and hands-on learning kits.

 **Inspiring Students:** Besides giving a solid foundation in STEM and exposing students to unlimited career options, the activities we provide kindles the imagination and creativity of students, enabling them to be experimentative, innovative and inspired.

 **Global Platform:** Atlab provides a platform for students to participate in international events relating to robotics, mathematics and science Olympiads. The global exposure will enable students to explore and evaluate themselves against global talent.

 **Individual Attention:** Since, it is a student centered curriculum the responsibility of

learning shifts to the student, hence teachers spend less time on the traditional tasks of classroom management and student discipline. Teachers are afforded more one-on-one time with each student.

 **Customer Support:** We offer complete teacher centered support, management assistance and advice from veteran facilitators. A companion web site, replete with the latest news, notes, and downloads, offers complete resources specifically designed for Atlab STEM education facilitators.

 **Training & Development:** Atlab STEM Academy also offers a certified training programme for teachers all throughout the year. The training helps teachers make the transition from their role in a traditional classroom to that in an Atlab STEM Academy classroom an easy one. The trainings are delivered in two phases of 5 days each, by highly qualified trainers at the academy situated at Chennai.



For franchise enquiries: franchise@atlabstemacademy.com

CORPORATE OFFICE

Atlab STEM Academy, No.20, 1st Floor, GKS Annexe, Pycrofts Garden Road, Nungambakkam,
Chennai - 600 006. Ph : +91 44 43500300 | info@atlabstemacademy.com | www.atlabstemacademy.com