

india **STEM LAB**

Unlocking The Potential of IR 4.0 with **STEM**



STEM LABS
SETUP PROJECT

In Association with :



All India Council For Robotics & Automation

ABOUT DBI

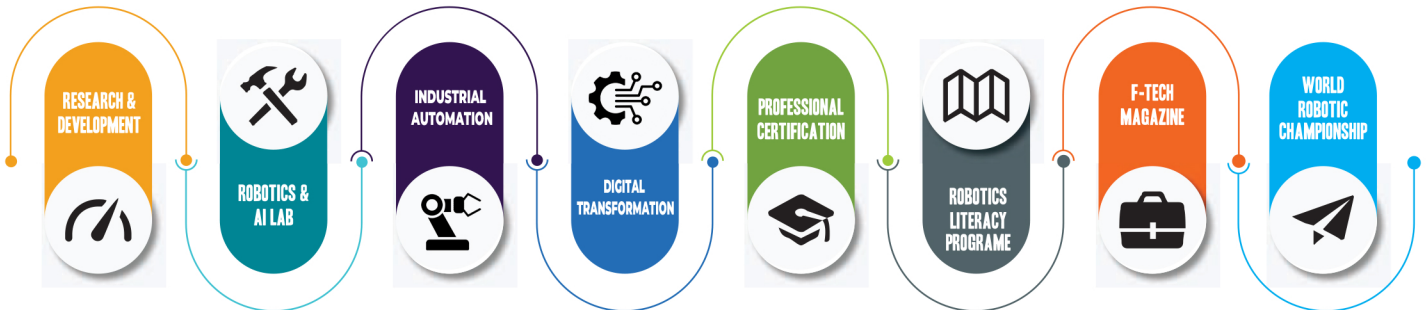
Setting up standards in Robotics & Automation

Digital Bridge International is part of Markaz Knowledge City and unique in developing solutions where sustainability set by United Nation is the key to success and the industry experts associated with us are internationally recognized. Industrial Revolution 4.0 is the game changer for addressing the economic, social, and environmental challenges where Robotic Automation is on top priority for focusing the growth of individual, industry and protecting the eco-system in collaboration with AICRA & Well known universities across the world (Malasia, UK, UAE...)

Digital Bridge International will leverage the innovative ideas with extend knowledge and expertise to develop standards that are effective and widely accepted across the world. We strongly believe that IR4.0 based education is going to be inevitable to empower all industries growth. DBI welcomes you to show your interest for setting up the STEM/NxR/Community lab with zero inception cost (conditions applicable) by filling this form and our team will get in touch with you for explaining the scope.

What We Do

Engaging Industries, Corporates, Academia and Students



Our mission matters India's youth ready for future assignments. By engaging them in STEM focused education and experiences, they learn how to examine problems and then create a plan to solve them.

WHY STEM

SCIENCE

TECHNOLOGY

ENGINEERING

MATH



Creative & Out-of-Box Thinking

Conceptualizing, applying, analysing, and evaluating information through observation



Problem Solving Skills

Developing ability to identify problems, brainstorm and analyse answers and implement the best solutions



Making Youth Employable and Ready for Future Jobs

Access to advance technologies that provides youth not only with technical and vocational but also core employability skills



Encourage Team-Work and Collaboration

Bringing like-minded students together in order to efficiently and effectively complete projects

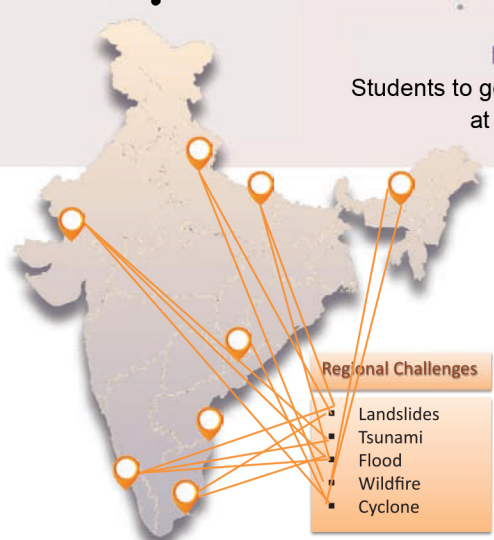


Encouraging Inventions in STEM Field

Edge over traditional education and creating open environment for inventions

India's STEM lab with State-Of-Art-Lab infrastructure

All latest equipment and technologies help student to use their creativity to make innovative projects



Tech solutions to real life problems regional
Student at India template would be identifying real life problem as well as regional level challenges and can invent Technology Solutions to such problems

Most common challenges which can be solved by Technologies

- Waste management
- Pollution
- Public transportation
- Child and women safety
- Water management
- Energy Crisis
- Disabled friendly infrastructure
- Security challenges
- And many more

Industry Focused Innovations

DBI & AICRA focusing on major industry that boost indian economy. We have also engaged experts from these Industries as well as formed technology governance steering committees. Students at India STEM Lab would be making project related to these industries (not limited).

Guidance by Industry Experts

Data Repository and Access



DBI with AICRA takes help of industry and experts to identify and design projects for the area of development in STEM Labs.

- 3500+ Industry and academia members
- 1800+ Technical Consultants listed at GRAPES
- Various Govt. Departments' officials engagement at states/center
- 800+ Individual researchers and professionals

TECHNOLOGY GOVERNANCE STEERING COMMITTEE (TGSC)



- Agriculture



- Defence



- Healthcare



- Aerospace



- Start-ups



- Education



- Real Estate

DBI in Association with AICRA has set up a strong database server which is accessible to learn at India STEM Lab

- Students may save various category of data which can be used for AI based module development
- Student may also access data for industry based project development



Recognitions & Achievements



Onsite / Virtual Trainer Support

DBI & AICRA have initiated the process of hiring technical training experts across kerala. In 3 phases 800 trainers will be hired and certified to become STEM Lab trainer

- Qualification: B.Tech / MCA with 2 to 4 years of industry or academia experience
- Language: English/Hindi/ Regional Language
- Certification: Each trainer to be certified by **DBI & AICRA** post completion of Trainer Development Program
- School may prefer daily/alternate/weekly training schedule for students. Deployment of the trainer would be as per schedule.
- Level 2 Experts will also provide virtual and special sessions
- Rotation of trainers time to time, to ensure subject expert training

05 National and International Exposures for Students

Competitions, Awards, Quiz, Contests etc.

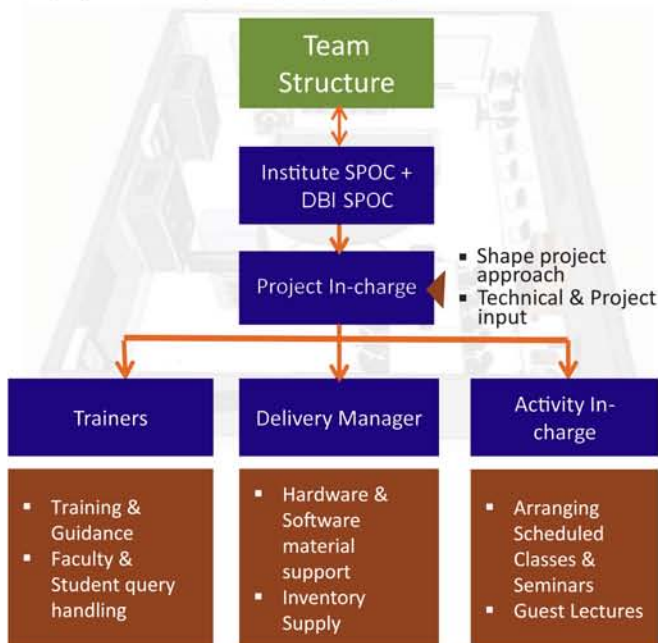


Concept of India STEM Lab for Schools



Obligations & Team Structure

We will deploy dedicated resources to ensure 100% success of the program that would benefit to students to make them employable and get appropriate job.



Institute Obligations:

- 300 to 400 SqF area with basic infrastructure
- 5 to 10 PC with minimum i3 Core/4GB RAM
- Electricity Port and Internet
- 1 SPOC to coordinate with Students

The Solution & Offerings

- Setting up India STEM Lab at school premises with all equipment and software under PPP model.
- Each grade students to develop latest technologies integrated projects throughout the year.
- Student Engagement and Interaction with Industry Experts and domain experts.
- Providing various platforms for certified students to showcase their innovations.
- School/Teacher Engagement

STEM Module and Project Development



GRADE 1&2	• Non-screen projects, Introduction to STEM,
GRADE 3&4	• Basic Coding and Robotics
GRADE 5&6	• Robotics Programming, Basic Mobile Apps, Adv. Robotics.
GRADE 7&8	• Google Analytics, Mobile App, IOT, 3D Printing, Advance Coding, Game Development
GRADE 9&10	• Cloud Computing, Adv. Robotics, Game Development, UAV, Machine Learning, Neural Network.
GRADE 11&12	• Adv. Robotics, Game Development, Artificial Intelligence, ARVR, UAV, Industry Automation

Process & Timeline

- Nominating one professor In-charge, student in-charge and extend support to the nominated individuals, The professor in-charge will be direct link between institute and company.
- The school will undertake relevant infrastructure and publicity measure in order to meet the minimum requirement of the Lab set up and technical training.

Timeline

Day 1

School submit the request form (Online/Offline)

Day 4

DBI & AICRA STEM TEAM select the school for grant and approve the lab.

Day 7

School sign off the agreement/MoU

Day 10

Site recce and scheduling (Virtual or via DC), Panel Creation for Registration

Between Day 20-30

Student registration completion online, making training schedule

Between Day 40-50

STEM Lab installation and briefing

Between Day 55-60

STEM Lab handover and Trainer Deployment

Certification

Robotics Literacy Program (RLP) Certificates
Student may also appear in Robotics Literacy Program Certificate, conducted by DBI with AICRA every quarter.

O-Level



B-Level



A-Level



C-Level



Program completion certificate
After completion of annual training program at India STEM Lab, each student will be awarded "Certification of Completion" from DBI & AICRA







HILLSINAI
CENTRE OF EXCELLENCE



India **STEM** lab is a community of students in a particular education Institute who are willing to acquire knowledge on Robotics. The club will be offered training programs mixes the creativity and curiosity of young students with the hands on education and Technology with focus on robot building and Science based activities. Our learning methodology takes of innovative and challenging ideas and converts them into solutions in the form of working robots or engaging science experiments.

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