



Fab Academy Distributed Educational Model

It offers a distributed rather than distance educational model, students learn in local workgroups, with peers, mentors, and machines, which are then connected globally by content sharing and video for interactive classes.

Join the Fab Academy Network

Fab Academy runs in more than 70 Fab Labs, for more than 250 students per year in the largest campus of the world. Fab Academy Program is part of the Academany, the Academy of Almost Anything.

For more information please check: https://fablabbcn.org/fab_academy/

Apply to Fab Academy

Applications for Fab Academy 2020 cycle will start in September 2019.

If you are interested in getting acquainted with the applications and implications of digital fabrication, and joining the Fab Lab Network, please follow the Application Process.

Fab Academy Tuition fee

Fab Academy Tuition Fee, is based in the combination of 2 costs: **Local Costs:** 500\$, the costs needed to run the course in the local Fablab that hosts the program

Central Costs: 2500\$, infrastructural costs and services provided by Faculty, Team, **Central Coordination & Administration**

Total Tuition Fee is 3000\$

Scholarships: Fab Foundation offers scholarship up to 80% of the course fee for meritorious candidates recommended by Fab Lab

For more details, Pls contact course coordinator

World Wide FABLab

- **SINGAPORE** JAPAN CHINA
- **FRANCE**

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AKGEC FAB LAB

A Fabrication Laboratory is a technical prototyping platform for innovation and invention which aims at providing stimulus for students and serves as a platform for learning and innovation. Fab Lab Foundation program began as collaboration between the Grassroots Invention Group and the Center for Bits and Atoms at the Media Lab in the Massachusetts Institute of Technology (MIT). The Fab Lab also becomes a medium for connecting to a global community of learners, Educators, Technologies, Researchers and Innovators-essentially becoming a self-sustaining global knowledge sharing network. It also have global network of nearly 2000 local labs across the world. A fabrication Laboratory (FABLAB) is a technical prototyping plate from for learning and innovation. It is a small scale workshop offering Digital Fabrication which empowers students and other users to create smart devices for themselves which can be tailored to local or personal needs. At a time when engineering is supposedly losing its shine because of degradation in educational standard, AKG Engineering College shines out at a savior with its visionary approach and state of art engineering excellence.

FAB LAB NETWORK

The Fab Lab Network is an open creative community of fabricators, artists, scientists, engineers, educators, students, amateurs and professionals located in more than 100 countries and 1,750 Fab Labs across the globe.

From community based labs to advanced research centers, Fab Labs share the goal of democratizing access to the tools for technical invention. This community is simultaneously a manufacturing network, a distributed technical education campus, and a distributed research laboratory working to digitize fabrication, inventing the next generation of manufacturing and personal fabrication.



FAB ACADEMY

Fab Academy is a Digital Fabrication programme directed by Neil Gershenfeld of MIT's Center For Bits and Atoms and based on MIT's rapid prototyping course: How to Make (Almost) Anything.

The Fab Academy offers a 6-month programme on digital fabrication, and it could be taken in any of the participating labs. The Fab Academy offers Certificates on relevant technical topics and a Diploma aimed at vocational and technical training for employment and investment (along with assistance to its graduates in those areas). Fab Academy Certificates provide familiarity with technical options and capabilities, hands-on experience, and direction for further study. Each requires and is evaluated by, developing and documenting projects. They are periodically renewed to reflect best practices. Each Certificate typically requires one week. They are combined in the Diploma, which is roughly comparable to completing MIT's rapid-prototyping course 'How To Make (almost) Anything'. Progress is evaluated by skills and projects rather than time or credits.

During this 6-month programme, students learn how to envision, prototype and document their projects and ideas through many hours of hands-on experience with digital fabrication tools, taking a variety of code formats and turning them into physical objects.

Students at the Fab Academy learn:

How to use a Fab Lab's digital fabrication tools for rapid prototyping

- **#** Mini Laser Cutter
- Roland SRM-20 Milling Machine
- 3D printer
- Roland Vinyl Cutter
- CNC Router
- devices.
- 💤 How to programme AVR microcontrollers on the boards they have produced.
- Molding and casting
- **3**D scanning and printing

🗱 Electronics design and production by producing circuit boards using a variety of sensors and output

How It Works

Each lab that participates in the Fab Academy program is part of a global Fab Lab / Fab Academy network. The local branches of the Fab Academy work with other participating Fab Labs and experts from around the world via a distributed educational model where we pool our knowledge to provide a unique educational experience.

We view and participate in global lectures broadcast from MIT on Wednesdays at 9:00 am - 12:00 pm EST. The lectures are recorded and available to students throughout the semester. In addition to the lectures, there are two lab days each week where students have access the digital fabrication equipment and personal help with projects.

Fab Academy faculty who are leaders in their respective fields provide global video lectures, supervise academic content, and guide research. Hands-on instruction in the labs is provided by instructors who supervise and evaluate certificates, develop and disseminate instructional material, and assist with projects.

For more information please check: https://fablabbcn.org/fab_academy/

Learn How to Make (Almost) Anything

The Fab Academy is a fast paced, hands-on learning experience where students learn rapid-prototyping by planning and executing a new project each week, resulting in a personal portfolio of technical accomplishments.

