



AN HANDS-ON CRASH COURSE

The time commitment is about 16+ hours a week at minimum, but could be far greater. You will spend **lots of time** making stuff and documenting it.

WHAT KIND OF MACHINES WILL I USE?

- A computer-controlled **laser cutter**, for press-fit assembly of 3D structures from 2D parts.
- A large numerically-controlled **milling machine**, for making furniture (and larger) sized parts.
- A **vinyl cutter**, to produce printing masks, flexible circuits, and antennas.
- A desktop sized **precision milling machine** to make three-dimensional molds and surface-mount circuitboards. (micron resolution)
- A **3D Scanner** and a **3D Printer**

WHAT SHOULD I LEARN BEFORE STARTING?

You should be able to use a computer and have basic understanding of CAD, electronics and programming. You should also be able to **communicate in English language**. Many labs offer **pre-classes** to bring you up to speed to the course before it starts.

WHERE CAN I TAKE FAB ACADEMY?

Fab Academy requires you to use a fully equipped Fab Lab during the whole course.

The FabLabNetwork is present all over the world and you can find a Fab Academy Node in 21 countries to follow the classes.

Check the list:

<http://fabacademy.org/2017-nodes-supernodes/>

WANT TO SPEND SOME TIME ABROAD?

Doing Fab Academy abroad is a great way to spend a semester in a foreign country with local people.

The hosting Fab Lab will help you find an accommodation and network with their community



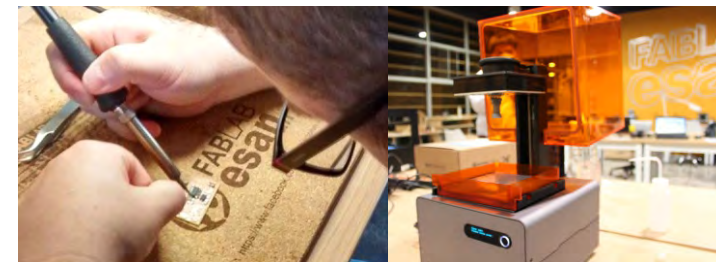
Feel free to contact the lab for any further information!

Find **Fab Lab ESAN** at **Universidad ESAN**'s Campus
Av. Alonso de Molina 1652, Monterrico Chico, Surco
Lima, Perú

<http://fablab.esan.edu.pe>
fablab_esan@esan.edu.pe



THE FAB ACADEMY TEACHES PRINCIPLES AND APPLICATIONS OF DIGITAL FABRICATION



PART OF THE



JOIN NOW ! <http://fabacademy.org>

WHY FAB ACADEMY?

The role of Fab Academy is to initiate, mentor and technically train new students for participation and leadership in the global Fab Lab Network community

IT'S HOW WE TRAIN OUR TEACHERS



FAB ACADEMY 2017 MODULES

Principles and practices	Molding and Casting
Project management	Output devices
Computer aided design	Composites
Computer controlled cutting	Networking and communications
Electronics production	Interface and application programming
3D Scanning and printing	Applications and implications of digital fabrication
Electronics design	Invention, intellectual property and income
Computer controlled machining	Project development
Embedded programming	Project presentation
Mechanical design	
Machine design	
Input Devices	

FACULTY



Fab Academy instruction is based on MIT's popular rapid-prototyping course **How To Make (almost) Anything**, taught by **Prof. Neil Gershenfeld**

HOW DOES IT WORK ?

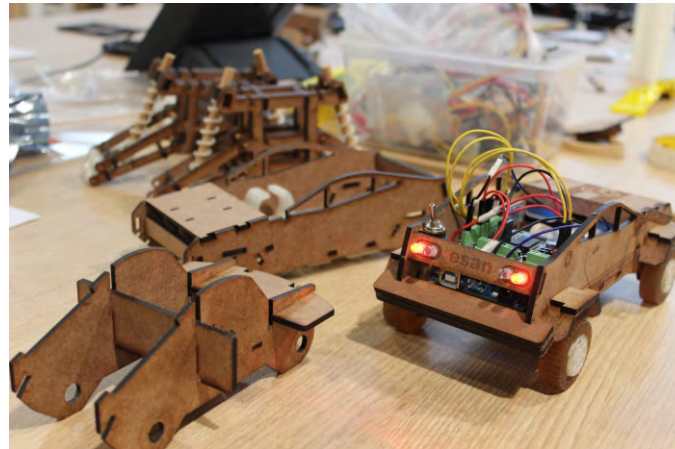
The program takes place mid January to late June

Every week, prof. Neil Gershenfeld holds a global lecture on a different topic and Instructors in local labs provide hands-on activities

Students work on the assignment using lab materials, equipment and machines, immediately applying all the concepts covered in the global and local classes.

Students who complete all modules and final project go through a global evaluation process that leads to the Fab Academy Diploma

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GET A BETTER JOB

Many Fab Academy graduates improved their career opportunities after taking the program.

There's growing demand in the job market for digital fabrication experts and Fab Lab managers.

What students learn can be applied to any profession requiring rapid prototyping, or even used for **starting a new businesses**.

Take a look at the opportunities available at <http://jobs.fabeconomy.com> as a reference for jobs coming from the Fab Lab Network.

WHAT YOU WILL LEARN?

In few words: design, digital fabrication, electronics, software and everything in between.

TUITION FEES

Fab Academy Diploma costs 5,000 (USD)

Tuition includes:

- All the basic course materials
- Access to all videos for lectures and reviews
- Access to the Fab Academy Video Conferencing system (MCU) and Fab Academy Archive
- 15 hours a week of hands-on Fab Lab access and personal instruction
- Use of the lab equipment and facilities
- Free access to the Annual FABX conference and diploma award ceremony where the student is graduating
- Free software licenses for **selected Autodesk** and **Dassault (Solidworks)** software packages during the course

Scholarships

You can apply for a partial grant or a scholarship to your local lab, often provided in exchange of some work contribution to the lab.

Accreditation

There is no global accreditation for these skills. Instead, each student builds a portfolio that documents their mastery of them individually, and their integration.

Need more information? Visit our website
<http://fabacademy.org>