Fab Academy

FA2025 > Expectation

Source: ultimateluxurychalets.com

FA2025 > Reality

Source: internationalalpineguides.com

FAB ACADEMY 2025

30 days shorter than usual!

Dec 04: open labs
Jan 13-17: instructor bootcamp
Jan 20,21: student bootcamp
Jan 22: principles and practices, presentations, introductions (*video*), project management (*video*, *review*)
    Jan 27 *recitation*: version control (*video*)
Jan 29: computer-aided design (*video*, *review*)
Feb 05: computer-controlled cutting (*video*, *review*)
    Feb 10 *recitation*: programming and debugging (*video*)
Feb 12: embedded programming (*video*, *review*)
Feb 19: 3D scanning and printing (*video*, *review*)
    Feb 24 *recitation*: AI (*video*)
Feb 26: electronics design (*video*, *review*)
Mar 05: computer-controlled machining (*video*, *review*)
    Mar 10 *recitation*: sustainable materials (*video*)
Mar 12: electronics production (*video*, *review*)
Mar 19: input devices (*video*, *review*)
    Mar 24 *recitation*: machine building (*video*)
Mar 26: output devices (*video*, *review*)
Apr 02: networking and communications (*video*, *review*)
Apr 09: mechanical design, machine design (*video*, *review*)
    Apr 14 *recitation*: fab ecosystem (*video*)
Apr 16: break, midterm review
Apr 23: molding and casting (*video*, *review*)
    Apr 28 *recitation*: education (*video*)
Apr 30: interface and application programming (*video*, *review*)
May 07: system integration (*video*, *review*)
    May 12 *recitation*: Fab All-In (*video*)
May 14: wildcard week (*video*, *review*)
May 21: applications and implications, project development (*video*, *review*)
    May 26 *recitation*: start-ups (*video*)
May 28: invention, intellectual property, and income (*video*)
Jun 02-06: weekly assignments deadline
Jun 09-13: final project presentations
July 04-11: FAB25 Czechia

FA2025 > Milestones

Source: ar.inspiredpencil.com

QUESTION

What are the **most important skills** that you will learn in Fab Academy? What skills are most important to successful graduation?

ANSWER

Time Management & Documentation!!

FabAcademy…teaches
Rapid Prototyping.

Time Management

You will run out of time > Learn to plan, work efficiently and recover from frequent problems.

Expect Nothing to go smoothly.

1

Supply Side Time Management

Available Time…determines Tasks.

SSTM

Demand-side Time Management

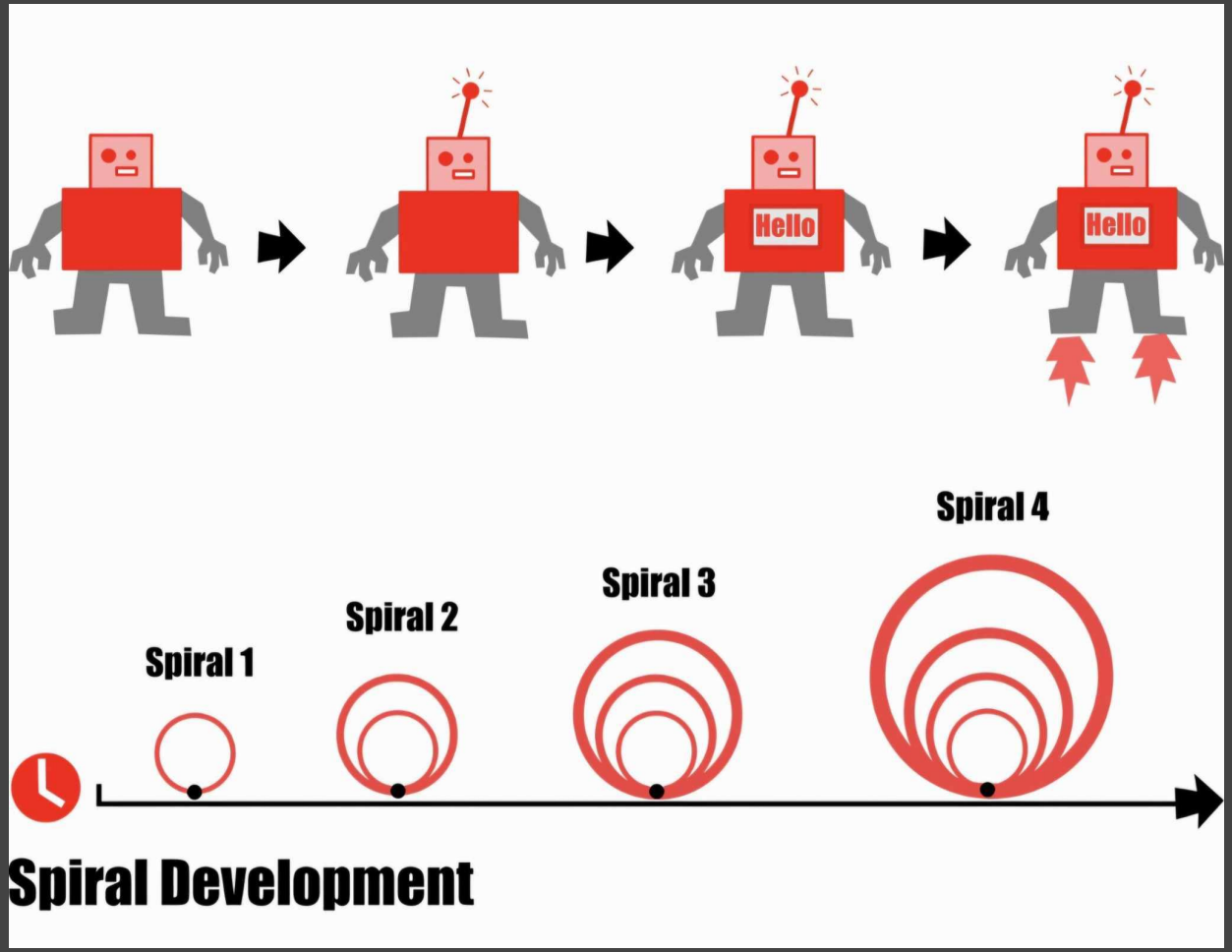
Supply-side Time Management

Prioritize TASKS in order of importance.
Stay aware of passing time.
Know when to stop & move on.

2

Spiral Development

Spiral


Hello
Hello
Spiral 4
Spiral 3
Spiral 2
Spiral 1
Spiral Development

Incremental…completed versions.

Done (on time)...

is better than Perfect (and late).

Doc
...umentatio
n

Documentation = Graduation

Document your process (including errors) so that someone else can **replicate** it.

1

Make a Template for your assignment documentation.

Template

Hero Shot
Summary
Work Process Detail
Learning Outcome
Digital files

2

Content…before style.
It is not a beauty contest.

Content

2

Make good use of photos and videos…to reduce the amount of writing you need to do.

Images

Enjoy FA2025!