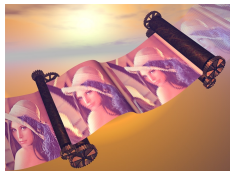# Image - IMA and DIGIT VCC

https://sciences.sorbonne-universite.fr/formation-sciences/
masters/master-informatique/
parcours-image-ima

digit-International

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2023-2024

Objectives and content

- Advanced program in the domains of image analysis and understanding, computer vision, computer graphics, artificial intelligence.
- Coherent program from the fundamentals of the discipline to the most advanced techniques.
- Responds to job market demand, both in research laboratories and in industry (image engineering services, multimedia, image synthesis, remote sensing, medical imaging, non-destructive control, etc.).
- Main topics: image analysis and understanding, object and scene recognition, computer vision, computer graphics, artificial intelligence, biomedical imaging and other applications.

After the master

- Research in image analysis, computer vision, computer graphics, AI (with applications to medicine, biology, physics. remote sensing, video, multimedia...)
    - either in an academic context, or in an industrial research and development team.
- Research engineer.
- User services (quality control, simulations, communication, media, digital humanities...).
- Companies in biomedical imaging.
- ...

Organization

- First semester: 5 UEs (30 ECTS)
- Professional orientation and insertion (3 ECTS) - only IMA
- Second semester: internship / master thesis (27 ECTS, 30 for DIGIT), at least 5 months, usually 6 - Examples: https://perso.ensta-paris.fr/~manzaner/Stages_2023/

Dates of exams:

- weeks of 13 November and 5 February,
- 2nd session and master thesis defense in September.

TAIV □□ + 1 IMV □□ +1	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	MAPIMED	IP	BIOMED	TADI	IG3DA
Afternoon	PRAT	VISION	RDFIA		

Details: http://perso.telecom-paris.fr/bloch/P6Image/IMA-prog.html
https://cal.ufr-info-p6.jussieu.fr/master/

Validation

- One grade for each UE.
- Validation of one UE if grade ≥ 10.
- Validation of the semester if all UE grades ≥ 10.
- Validation by compensation if average UE grade ≥ 10
    - by default: no second session
    - if compensation refused (to do by email), second session for all non validated courses and the new grades are the definite ones.
- If average grade < 10, mandatory 2nd session for all non validated courses (otherwise 0).
- Validation of the year if each semester is validated

Some recommendations

- Definite choice of courses by the end of the first course week.
- Pedagogical contracts to sign.
- **Communication and mails.**
- Information put at: `http://master.informatique.sorbonne-universite.fr/site-annuel-courant/`
- Planning and classrooms: `https://cal.ufr-info-p6.jussieu.fr/master/`
- Presence during lessons, exercice sessions, computer labs.
- ALIAS: `https://www.sorbonne-universite.fr/associations/alias`
- Computer account, computer rooms accessible in 23-24
- Programming languages (computer labs, projects...): python, C/C++.