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.
- ...

I. Bloch, D. Béréziat (Sorbonne Université)
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.

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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 $\geq 10$.
- Validation of the semester if all UE grades $\geq 10$.
- Validation by compensation if average UE grade $\geq 10$
  - 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, exercise 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++.