



MASTER

3D Multimedia Technology

FRENCH-NORWEGIAN MASTER PROGRAMME

NEW!

3D Image and Color Processing Computational imaging Multimedia Technology International master programme

Overview of the Master Programme*

University Jean Monnet Saint-Etienne and Gjøvik University College are combining their skills and expertise to offer a two-year Master Course in “**3D MULTIMEDIA TECHNOLOGY (3DMT)**”.

The study programme of this Master is scientifically original and encompasses computer vision and imaging science and computer science and multimedia technology as a mix of relevant theoretical and practical knowledge. The objective is to educate students in advanced methodologies and models in computational 3D imaging. Both practical applications and further research and studies orientations can be pursued.

These areas are emergent and rapidly evolving, with high development and recruitment potential and of growing impact on the Information Society Technologies which requires specialized competencies.

Courses are taught in English and are structured according to the ECTS with 120 credits over four semesters of full-time study.

Applicant with at least a BSc degree level (180 ECTS) or equivalent, in computer vision, computer science or mathematics are invited to apply.

Online application:

<http://www.master-3dmt.eu>

Mobility tracks : two partner universities*

Mobility of all students between the two universities is compulsory.

Mobility grants will be available from french and norwegian institutions.

Semester 1 and 2: study in Saint-Etienne with part of the course given via distance learning from Gjøvik

Semester 3: study in Gjøvik with part of the course given via distance learning from Saint-Etienne

Semester 4: Master Thesis in France, Norway or any other country

Visiting Scholars*

The partner universities will host scholars (academics) specialized in the fields of optics, color, image and media technologies. Scholars (PhD minimum) will contribute to research and teaching in collaboration with the faculty of the host institution.

Accreditation

The 3DMT Master is a joint master programme of University Jean Monnet Saint-Etienne and Gjøvik University College accredited by the french and norwegian ministries of higher education and research.



Course programme⁽¹⁾

(1) subject to revisions

Semester 1 at University Jean Monnet, Saint-Etienne

Image Processing and Analysis	5 credits
Data Analysis and Statistics	5 credits
Design and Analysis of Algorithms	5 credits
Cross-Media Color Reproduction (distance learning from Gjøvik)	5 credits
Scientific Methodology (distance learning from Gjøvik)	5 credits
Mathematics for Signal and Image Processing (distance learning from Gjøvik)	5 credits

Semester 2 at University Jean Monnet, Saint-Etienne

Human Vision and Computer Vision	5 credits
Advanced colorimetry	5 credits
Coding and Compression of Media Data (distance learning from Gjøvik)	10 credits
Pattern Recognition	5 credits
3D-4D Project ⁽²⁾	5 credits

(2) possible extension as summer internship

Semester 3 at Gjøvik University College

Advanced course in video processing	5 credits
Content-Based image retrieval	5 credits
Computer Graphics	5 credits

Mobile Computing	5 credits
3D Visualization (distance learning from St-Etienne)	5 credits
Optional lectures :	5 credits

- Audio processing
- Selected topics in color imaging
- Advanced course in game technology
- User Centric Media Design course
- Information Security course

Semester 4

Master Thesis ⁽³⁾	30 credits
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(3) The master thesis internship could be done either in a university laboratory or in a company, in France, Norway or any other country.

Tuition fees From 250 € per year (insurance and optional services not included)

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