Federal recognized postgraduate education in Nano- and Micro Technology
1. The Master of Advanced Studies

The Master of Advanced Studies (MAS) is the only title recognized by the Swiss government for postgraduate studies at the master level in the natural and engineering sciences. The Master of Advanced Studies is Euro compatible.

The MAS is distinct from the Master of Science in Engineering (MSE) through its smaller number of ECTS (60 instead of 90) achieved its absence of any basic scientific training and the restricted access. It is targeted at students and professionals, who want to acquire all necessary professional skills through a shorter, but much more intensive training. This intensity is generated through small restricted classes and focus on hands-on laboratory research. The course is built on 30 individual weekly modules, each dedicated to a particular field of nanotechnology and run by top-notch scientists in this field.

2. Objectives of the Master of Advanced Studies in Nano- and Micro Technology program

The objective of the master program in Nano and Micro Technology is the education of talented engineers and students into nano engineers. They should be graduates from micro technology, physics, chemistry, mechatronics, data analysis & process design, mechanical, electrical or chemical engineering.

- The master course in NMT is a result of the joint effort of all the professors and lecturers of the Swiss Universities of Applied Science (UAS) specialized in the various fields of micro- and nanotechnology.

The master course in NMT is a novel and innovative form of training, and should prepare you for your future job as
- Nanoscale and micro technology engineers
  - Innovating product designers
  - Innovating manufacturing process engineers
- Engineers transforming research results into innovative products

About 1/3 of the participants in these courses are engineers from industry. This cooperation with peers who are active in their profession, gives you an additional important training opportunity, and provides you with a sizable network of professional relations at the end of the course.

3. Educational Program

3.1 Forms of participation:

The whole program is completely modular. You can earn your master degree over any period of time by following weekly courses and enlisting for a master thesis at the end. The expiration date for any ECTSs granted in this program is 6 years. Indeed an increasing number of students are using the program in phases of reorientation of their career and life.

The masters program requires successful validation of 20 weekly courses or seminars corresponding to 40 ECTS points and successful defence of a diploma thesis earning you an additional 20 ECTS points. You can choose from a total of 30 courses offered. The courses are offered on a bi-annual basis (see past and current programs on www.nanofh.ch).

There is no “academic” year. You can enter the program any time with any of the 30 courses. They are independent with harmonized and complimentary content.

You graduate once you have collected the required 60 ECTS points. You can choose and vary the intensity of your training throughout your studies. The program is open for students employed in industry. They can do their thesis work on the premises of their employers under the supervision of the professor of the program. Check the open ½-time positions on the website if you look for a job in your future specialisation to finance your studies.

3.2 Practical Organisation:

Your stay at the various locations will be organized by a local committee, which will provide you with the following services.
- Joint low cost lodging for all the participants choosing this option
- Assistance in reservation of individual hotels
• Joint on site lunches and dinners for all the participants choosing this option
Note, that the costs for lodging and meals are not included in the fees.
The fees do include:
• Full set of booklets of all the courses of the program, including those, you have chosen not to attend.
• Refreshments during the breaks
• Office space at the university, where you can do your homework and discuss with your colleagues. The space will have the entire infrastructure necessary including internet access through the university server.
• Library service
• Literature retrieving services
All other services offered to its students by the hosting university.
All courses, scripts and examinations are in English. According to our experience even students with poor English skills can follow the courses and will be fluent in technical English when graduating.

4. Validation: examinations and approval of the master’s thesis

The validation consists of 4 elements:
• Each weekly course ends with a written or oral examination. It will be marked from A to E. Each successful examination earns an individual certificate worth 2 ECTS points. The certificate remains valid, even, if you do not complete the full program.
• Each seminar will be evaluated by at least 2 experts (see regulations for details). The number of seminars that can be credited for your degree is 5. One seminar is mandatory.
• The diploma thesis will be evaluated by 2 experts and also be marked from A to E
• A defence of the diploma work in front of a jury of at least 5 experts comprising the 2 experts that have evaluated the thesis.
An accepted thesis and a successful defence will earn you 20 ECTS.
Thesis work can be started before all courses have been passed.

6. Admission, Registration, Fees and conditions of payment

6.1 Admission
Participation is limited to engineers and scientists having graduated in one of the following disciplines: micro technology, physics, chemistry, biology, mechatronics, data & process design, mechanical engineering, electrical engineering, systems engineering, chemistry, life sciences, physics, materials science or associated disciplines.
Required level: Bachelor, EPF diploma, UAS or equivalent (bac + 3+).
Students which do not have a valid permit for staying in Switzerland will receive a provisional registration, which they can use for applying for a permit from the Swiss authorities.

6.2 Registration
You can contact any UAS participating in the program for participation. The list of contact persons is given under contacts on www.nanofh.ch. The contact person or the program director will evaluate your eligibility and discuss your research interest with you, in order to direct you to the team most appropriate for your master’s thesis.
Registration will be handled by hepia Geneva. If you feel, that you satisfy the conditions for admission, just send a completed application form with copies of all required documents to the secretariat in Geneva. The form can be downloaded from the website. If you have any questions, just mail or call the program director.
Once your application has been cleared, you will receive a provisional confirmation of registration. Definite registration is contingent on the receipt of the first down payment and a document certifying your permission to stay in Switzerland.

6.3 Fees and conditions of payment
Master course: CHF 12000.–
In signing the registration form, the student agrees with the terms and contracts the obligation to pay the total fees according to the following schedule:
Registration fee: SF 2000.– .Further instalments according to progress in the studies.
Contact

www.nanofh.ch

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