



Guidelines – Applying for and Revising Modules

New Applications

- Applications for new modules should be appropriately subject oriented and discussed first with the study program representative (see page 3, note who you have talked to on the application form). Please inform the student services office at modulverwaltung@ei.tum.de and tell them the module name and number of credits (make sure that there are a minimum of 5 ECTS credits); a new module will be generated in TUMonline by the student services office
- Prepare a description of the new module **in TUMonline**, assign the module to either Winter or Summer semester, assign semester weeks and hours the module will be held, and decide what type of exam will be held. Please be sure that the module description is completely and accurately filled out or else the new module will not be accepted. For exams that are given in sections, it is necessary to have them divided into qualifying sections or steps that are based on learning outcomes (with respect to performance results). Please clearly describe the learning outcome that is to be achieved.
- If the Module has fewer than 5 ECTS credits, please send us a complete justification for the reduced number of credits (see guidelines from the university office of academic and student affairs)
- The person responsible for the Module must be the director of the Associate Institute/ Institute
- Instructors can be contract teachers, private lecturers, adjunct professors, honorary professors or post docs (with a teaching assignment)
- Determine the Module's assignment within the Program of Studies (You will find a list of the course of studies in our faculty at the end of this document); *it is not possible to offer a module in BSc EI and the Masters Program at the same time!*
- For the Master EI Program, the Modules should be assigned thematically according to one or more Centers of Competence (see <http://www.ei.tum.de/forschung/>)
- Application form should be sent electronically to modulverwaltung@ei.tum.de
- The Module number will be assigned by the student services office.

The application must be received by the student services office in time for the July or February session of the faculty council. It will then be discussed by the teaching committee and approved by the faculty council. (Changes to winter semester are reviewed in July, changes to summer semester in February.)

Application deadline for Winter Semester 2022/23: June 10, 2022



Revisions

- Please use the form „Application for changes in the Module Catalog“ („*Antrag auf Änderung im Modulkatalog*“) for each change (including deletions).
- Please discuss the intended changes with the study program representative (see page 3, note who you have talked to on the application form): this is important for the overall organization of the course of studies; smaller changes (for example changing what kind of exams will be held) do not need to be discussed.
- Please inform the the student services office at modulverwaltung@ei.tum.de and tell them the kind of revision planned; they will decide if a new module has to be created or if a version of the “old” module is sufficient
- Edit the module description **in TUMonline**
- It is also very important to check if the information about the Module exists in the recommended Program of Study of the BSc EI; new Modules or changes to existing Modules will also need to be updated in those recommendations as well
- Please also check to see if the revised Module will be available to students in degree programs of other departments so that they can be informed of changes as well
- Application form should be sent electronically to modulverwaltung@ei.tum.de

The application must be received by the student services office in time for the July or February session of the faculty council. It will then be discussed by the teaching committee and approved by the faculty council. (Changes to winter semester are reviewed in July, changes to summer semester in February.)

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Examples of Module Descriptions

See TUMonline → TUM Department of Electrical and Computer Engineering → Teaching & Research → Module Catalog

Study Program Representatives

See application form

Calculating Credits

ECTS Credits are calculated based on the actual workload that is made up of course attendance and time spent studying individually.

1 Credit = 30 h; calculated using 15 weeks per semester; a module with 3 SWS contact hours (45 h) needs 105 self-study hours to count for 5 Credits (150 h).

In the APSO there is a prescribed Module size of 5-12 credits. Exceptions to this rule must be justified.



Programs of Study in the ECE Department (as of Winter Semester 2022/23)

Bachelor's Degree EI: 6 semester program, the first two years are made up of the compulsory part of the course; electives are slotted for the 5th and 6th semesters; the start of studies is always in Winter Semester. Currently ca. 1700 students are enrolled.

Masters Program EI: 4 semester program. Students may begin in either in the Winter or Summer Semester. Students have to choose at least 20 credits (start till WS19/20) bzw. 15 credits (start from SoSe 20) from one core subject area. The modules in these areas are set up and are to be completed by elective modules, practical courses and an advanced seminar. Currently ca. 1500 students are enrolled in this program.

Master's Program in English -- MSc Communications Engineering (MSCE): The program directors are Prof. Schlichtmann and Prof. Wachter-Zeh, 4 semester program. Courses must be chosen from the core modules "Communication Electronics" and "Communication Systems" (this is already fixed). The core courses will be augmented through elective modules taken from the seminars in "Advanced Topics" (already set up), through internships, and through elective modules that augment the core courses. Currently ca. 325 students are enrolled.

Master's Program in English -- MSc Power Engineering (MSPE): The program is managed at TUM School of Engineering and Design since October 2021.

Elite Master's Program in English -- MSc Neuroengineering (MSNE): the first students were enrolled in WS 2016/2017; program directors are Prof. Cheng and Prof. Kozielski. Students have to pass several core modules, the electives are defined together with a mentor. Students can earn an "elite certificate" by additionally taking 30 extra credits. Currently ca. 80 students are enrolled.