

## **Doctorate Minor Process Principles**

1. These principles are valid for the students who are going to start doctorate and integrated doctorate program in EEMB (*tur.*Elektrik ve Elektronik Mühendisliği Bölümü, *ing.* Electrical and Electronics Engineering Department) as of 20/21 Fall Semester.
2. A minor field other than the major should be selected within DYS (*tur.*Doktora Yeterlilik Sınavı, *ing.* Ph.D. Qualifying Exam) scope.
3. In order to complete the minor requirements at least one of the following options must be provided.
  - a. **Computer (CMPT):** At least two of the courses EE542, EE543, EE546, EE636, EE5410 and EE5420 must be taken and completed successfully.
  - b. **Biomedical (BIO):** At least two of the courses EE515, EE518 ve EE519 must be taken and completed successfully.
  - c. **Electromagnetics, Antennas and Microwaves (EMT):** Within the framework of the rules below, at least two courses must be taken and completed successfully.
    - i. EE523 course must be taken as compulsory and completed successfully.
    - ii. Also, one of the EE521, EE522, EE524, EE525, EE526, EE527, EE528, EE509, EE625, EE626, EE627 and EE5290 courses must be taken and completed successfully.
    - iii. If EE523 course was taken during the post graduate and completed successfully, instead of this course one of the courses defined in c-ii must be taken and completed successfully.
  - d. **Electronics (ELEC):** At least two of the courses EE510, EE512, EE514, EE610, EE617 and EE619 must be taken and completed successfully.
  - e. **Energy Conversion and Power Electronics (EM&PE):** At least two of the courses EE561, EE563, EE564, EE565, EE7566, EE568 and EE569 must be taken and completed successfully.
  - f. **Power Systems (PS):** At least two of the courses EE571, EE573, EE574, EE578, EE579, EE674 and EE786 must be taken and completed successfully. Alternatively, one of those courses together with one of the EE575 and EE576 must be taken and completed successfully.
  - g. **Communication (COMM):** At least two of the courses EE532, EE533, EE535, EE536, EE637 and EE728 must be taken and completed successfully.
  - h. **Control (CNT):** Within the framework of the rules below, at least two courses must be taken and completed successfully.

- i. EE502 and EE555 courses must be taken as compulsory and completed successfully.
  - ii. If one of the EE502 and EE555 courses was taken during the post graduate and completed successfully, instead of this course one of the EE553, EE554, EE557, EE558 and EE559 courses must be taken and completed successfully.
  - iii. If both of the EE502 and EE555 courses was taken during the post graduate and completed successfully, instead of these courses two of the EE553, EE554, EE557, EE558 and EE559 courses must be taken and completed successfully.
- i. Robotics (RBT):** Within the framework of the rules below, at least two courses must be taken and completed successfully.
- i. EE585 and EE587 courses must be taken as compulsory and completed successfully.
  - ii. If one of the EE585 and EE587 courses was taken during the post graduate and completed successfully, instead of this course one of the EE558, EE583, EE584 and EE586 courses must be taken and completed successfully.
  - iii. If both of the EE585 and EE587 courses was taken during the post graduate and completed successfully, instead of these courses two of the EE558, EE583, EE584 and EE586 courses must be taken and completed successfully.
- j. Signal Processing (SGNP):** Within the framework of the rules below, at least two courses must be taken and completed successfully.
- i. EE503 course must be taken as compulsory and completed successfully.
  - ii. Also, one of the EE5506, EE504, EE505, EE603, EE604, EE633, EE634, EE636, EE583, EE584, EE746 and EE798 must be taken and completed successfully.
  - iii. If EE503 course was taken during the post graduate and completed successfully, instead of this course one of the courses defined in c-ii must be taken and completed successfully.

4. Students in Ph.D program should take courses for their minor options as indicated in the above part. The following exceptions do apply for the minor courses;

**Exception-1:** Students enrolled in the doctoral program of METU Department of Electrical and Electronics Engineering who take the minor requirement course(s) in METU before their admission to the program and meet the success requirement of the doctoral program, are assumed to fulfill the minor "course" requirement. If these courses are taken from another university, their case is evaluated by the Graduate Education Committee in the Department. After the evaluation, if the courses are found equivalent to department courses, the minor course requirement is assumed to be satisfied.

**Note:** These courses do not decrease the required number of courses that should be satisfied in Ph.D program. Students should take all the required minor courses in order to satisfy the minor requirement.

**Exception -2:** In the event that METU EEMB courses, which are taken above the course load during the master's degree with NI status, are required to be counted towards the doctoral program, these courses will be evaluated within the scope of minor requirements.

**Exception -3:** In the event that METU EEMB courses, which are taken above the course load during the master's degree with from another university NI status, are required to be counted towards the doctorate program, the Graduate Education Committee will decide upon the evaluation of the faculty members of the related field.

5. A course defined by a student's major in the DYS Guidebook within the scope of core and special topics or defined as a minor requirement course for other major students cannot be used to complete the student's minor requirements.
6. The courses taken in undergraduate education (regardless of their status) cannot be used in completing the minor requirements.
7. While student is graduating from the doctorate program, it is required that in the transcript the courses which are provided by minor must be written and grades that are taken from those courses must be calculated in the overall GPA/CGPA.
8. At the beginning of every fall semester, the planning of the graduate courses that are planned to be given for two academic years (current academic year and the next) will be shared