

ÜSKÜDAR UNIVERSITY
INSTITUTE OF HEALTH SCIENCES
DEPARTMENT OF NEUROSCIENCE

NEUROSCIENCE
MASTER'S PROGRAMS
(WITH THESIS / NON-THESIS)

STUDENT GUIDE

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DEPARTMENT OF NEUROSCIENCE

Head of Department

(Neuroscience (ENG) MSc and
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Faculty of Engineering and Natural Sciences

Department of Molecular Biology and Genetics (English)

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Program Coordinator

(Neuroscience (TR) Academic Advisor)

Assistant Assoc. Dr. Ayşe Özçetin Şenöz

Faculty of Humanities and Social Sciences

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Assistant Program Coordinator

Res. Asst. İrem Gülfem Albayrak

Faculty of Engineering and Natural Sciences

Department of Molecular Biology and Genetics (English)

IMPORTANT INFORMATION

Each student is responsible for being informed about the curriculum, schedules and regulations of the Neuroscience Graduate Programs. Students who do not choose courses according to the curriculum will not receive approval of course registration, unless they present their excuses to their academic advisor.

Each student is responsible for being informed about the subjects presented in this guide and for informing their thesis/project advisors when necessary.

ÜSKÜDAR UNIVERSITY REGULATIONS FOR GRADUATE PROGRAMS

<https://uskudar.edu.tr/assets/uploads/sayfa/17/file/lisansustu-egitim-ogretim-ve-sinav-yonetmeligi-26-10-2020.pdf>

INSTITUTE OF HEALTH SCIENCES - FORMS AND IMPORTANT INFORMATION

<https://uskudar.edu.tr/sbe/formlar>

NEUROSCIENCE MASTER PROGRAM

About : <https://uskudar.edu.tr/sbe/norobilim-yuksekk-lisans-programi>

Course Plans : <https://uskudar.edu.tr/sbe/norobilim-yuksekk-lisans-programi-dersler>

Application Conditions : <https://uskudar.edu.tr/sbe/norobilim-yuksekk-lisans-programi-basvuru-ve-ucretler>

LMS : <https://lms.uskudar.edu.tr/>

OBS : <https://obs.uskudar.edu.tr/>

STIX : <https://stix.uskudar.edu.tr/login>

Frequently Asked Questions

1- Can I choose whichever course I want?

Students are responsible for choosing all the courses as given in the curriculum. Thesis program students must also take the Seminar course.

2- How many courses do I have to complete to graduate?

Non-thesis program students must successfully complete 10 courses in order to graduate.

Thesis program students must take the Seminar + at least 7 other courses and successfully complete at least 60 ECTS in order to graduate. However, it is recommended to take all of the courses specified in the curriculum to develop a better background in Neuroscience, a highly multi-disciplinary field.

Thesis program students are required to take the Seminar course before the Thesis Study course.

For detailed information: <https://uskudar.edu.tr/images/tools/yonetmelik/8.pdf>

3- Can I take courses during the thesis/project period?

If there are no failed courses, no other courses cannot be taken during Thesis/Project terms.

In case of remaining courses from previous semesters;

- In the program with thesis, our students who have failed the course must complete these courses in their 4th semester at the latest in order to graduate.
- Courses must be completed in the first semester of the thesis study. Courses cannot be taken in the second semester of the thesis.
- In the non-thesis program, the remaining courses must be completed in the 3rd semester at the latest.

4- How is the thesis/project advisor determined?

Thesis/project advisors are determined by the students themselves, in agreement with the full-time faculty members of our academic staff. **Advisors are not appointed by the Department.** Students are obliged to determine their advisors within the specified time (at the latest until the end of the 2nd semester) and apply to the department by filling out the relevant form.

Please read the section on Thesis/Project Advisor Assignments carefully.

Advisor preference form submission dates are announced for each semester and the form is accepted only between these dates.

5- How can I switch from the non-thesis program to the thesis program?

As of the 2019-2020 Spring Semester, the applications of the candidates who want to switch from the non-thesis program to the thesis program will be evaluated **if there is an empty quota in the semester they apply**. Otherwise, the transition will not be possible.

If the quota is appropriate, the number of students who can transfer will be determined. The following rules apply for the transition to the thesis program:

- It can only be done at the beginning of the 3rd semester.
- All the conditions for the program with thesis, except the undergraduate graduation grade, must be met.
- GPA at the end of 2 semesters must be 3.00 and above.
- Students who apply may be asked to take the Science Exam again.

Selection of Thesis / Project Advisor

Please carefully review **this guide and the guides and forms on the institute page** regarding your thesis process.

Thesis Advisor is not determined by the Department. Our students should determine their thesis advisors themselves.

The first recommendation to our students in choosing a thesis advisor is to determine the areas they are interested in and where they can learn the techniques that can improve their academic careers. The next stage is the research of our faculty members working in this field in the academic staff of our university and conducting interviews for consultancy.

The following criteria must be met for thesis advisors and thesis proposals:

- The faculty member who will be the Thesis Advisor must be a full-time staff member (Associate Professor or Prof. Dr.) at our university.
- The Thesis Advisor must have studies in the field of Neuroscience and must have the competence to have a thesis in this field.
- The advisory quota of the faculty member who will be the advisor should be appropriate.
- The thesis to be conducted must be in the field of Neuroscience.

If these conditions are not met, the supervisor selections and thesis proposal forms will not be approved.

A faculty member may be a consultant, a faculty member may be a co-advisor, and two faculty members may serve as thesis advisors, provided that the consultant is in the academic staff of the university.

Until the last day of the second semester, our students are required to determine their Thesis/Project advisors on the dates to be announced for each semester and submit the relevant Advisor Preference Form to the institute secretariat after receiving approval from the department.

Thesis Proposal Form

The Thesis Proposal Form of the institute can be downloaded from the Forms tab of the institute web page. **HOWEVER**, Neuroscience Master's Thesis program students are expected to fill out the form **given at the end of this guide**.

Proposal forms prepared outside of this format and without sufficient information will not be accepted.

For theses that require ethics committee approval, the document indicating that the application has been made and the application petition should also be attached to the form.

The Thesis Proposal Form must be submitted on the dates to be announced for each semester until one month after the appointment of the advisor by the institute.

The period may be extended if revision of unapproved forms is requested.

The following rules will be applied for the theses to be conducted as of the 2022-2023 academic year:

1. Thesis Proposal Forms that are not prepared in the format are not accepted.
2. Theses planned as reviews are not accepted.
3. Theses based only on surveys are not accepted.
4. The relation of the study to be carried out with the Neuroscience fields should be clearly stated.
5. It is obligatory to obtain the approval of the thesis advisor before submitting the Thesis Proposal Forms.
6. In meta-analysis studies, the appropriateness of the thesis will be determined by examining the way of providing the data to be used.



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NEUROSCIENCE MSc WITH THESIS
THESIS PROPOSAL FORM

1. GENERAL INFORMATION						
Student Number	:					
Student Name Surname	:					
Student E-mail / Phone No	:					
Department	:	Neuroscience (MSc)				
Start Date for Thesis	:					
Turkish Title of Thesis	:					
English Title of Thesis	:	<i>Title should be as precise and comprehensive as possible to explain the thesis topic</i>				
Ethical Report	Committee	:	<input type="radio"/>	Required. (Application document or official approval should be attached.)	<input type="radio"/>	Not required.

2. PURPOSE OF THE THESIS
2.1. Hypothesis Here, the hypothesis/research question that the project is based on should be explained clearly and in detail.
1.2. Goals of the Project The goals of the project, that should be achieved in order to test the hypothesis during the project period, should be clearly explained.
1.3. Relation to Area (Neuroscience) Here, the relation of the thesis topic to Neuroscience should be explained in detail. The information given here should clearly answer to the question “ Why is this a thesis project that can be conducted under the Neuroscience MSc Program, but not in another program?”



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THESIS PROPOSAL FORM**

3. IMPORTANCE OF THE THESIS

3.1. Scope of the Thesis

Here, the general scope of the thesis should be explained in detail, with support from existing literature. As in 2.3., the literature that confirms the relation of the topic to Neuroscience should be prioritized.

This section should not exceed 2 pages.

3.2. Significance and Originality of the Thesis

The significance of the thesis project should be explained in detail. Here, the difference from and contribution to the existing scientific literature should be emphasized.

This section should not exceed 1 page.



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4. MATERIAL AND METHOD

4.1. Experimental Plan

The time plan and outline of the methods utilized in the thesis project should be given in detail. A chart can be utilized in this section.

4.2. Experimental and Control Groups

The experimental and control groups should be given in detail. This section should sufficiently provide answers to the following questions :

- 1- What are the control and experimental groups?
- 2- Are the control groups designed sufficiently and properly?
- 3- How were the subjects and their numbers per group were determined? What are the criteria of inclusion/exclusion? (e.g. Species, strain, sex, age of experimental animals should be given for animal studies. Inclusion and exclusion criteria should be clearly explained for human studies.)
- 4- What is the number of groups? What is the number of subjects per group? Which statistical method was used to determine the size of the sample space? What are the parameters?

4.3. Methods

The methods of the project should be described properly and sufficiently under separate subtitles. Only mentioning the name of the procedure/test will not be accepted.

The general protocols on how the data will be gathered and analyzed should be given.

4.4. Statistical Analysis

How the data will be statistically analyzed should be sufficiently explained. E.g. which tests are appropriate and will be applied on the data? What are the parameters?

Only mentioning the statistical software or the name of the statistical test will not be considered sufficient.



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5. REFERENCES

References should be given in the format below. Each reference should be cited in the text.

1. Allen M, Qin W, Moreau F, Moffatt B. (2002) Adenine phosphoribosyltransferase isoforms of Arabidopsis and their potential contributions to adenine and cytokinin metabolism. *Physiol Plant* 115: 56–68.
2. Bartrina I, Otto E, Strnad M, Werner T, Schmülling T. (2011) Cytokinin regulates the activity of reproductive meristems, flower organ size, ovule formation, and thus seed yield in *Arabidopsis thaliana*. *Plant Cell* 23: 69–80.
3. Bassil NV, Mok D, Mok MC. (1993) Partial purification of a cis-trans-isomerase of zeatin from immature seed of *Phaseolus vulgaris* L. *Plant Physiol* 102: 867–872.
4. Yang B, Ji C, Kang J, Chen W, bi Z, Wan Y. (2009) Trans-zeatin inhibits UVB-induced matrix metalloproteinase-1 expression via MAP kinase signaling in human skin fibroblasts. *Int J Mol Med*. 23(4):555-560.



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THESIS PROPOSAL FORM

6. THESIS PLAN AND SCHEDULE		
<i>The detailed sections of the Materials and Methods should be given here with assigned time periods, with start and end dates.</i>		
Stage	Details	Planning
<i>The work packages of the thesis should be given here.</i>	<i>The details about each package should be given here</i>	DD.MM. YYYY- DD.MM. YYYY
	<i>The number of the rows can be increased</i>	
	<i>It is important to provide a realistic time schedule.</i>	

..... / / 20.....

.....
(Student Name Surname and Signature)

SUPERVISOR APPROVAL

I approve the thesis proposal of the MSc student with given name, surname and number above under my supervision.

Sincerely,

..... / / 20.....

.....
(Supervisor Title Name Surname and Signature)



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THESIS PROPOSAL FORM**

To the Institute of Health Sciences

Number :

Date : / / 20.....

According to the approval of the student and the thesis supervisor with given information above, the Thesis Proposal is approved by our department.

Sincerely,

.....
Head of Department
(Title, Name,Surname,Signature)