EASTERN MEDITERRANEAN UNIVERSITY (EMU)
SCHOOL OF COMPUTING AND TECHNOLOGY (SCT)
DEPARTMENT OF INFORMATION TECHNOLOGY

Information Technology

Master's Programs

STUDENT HANDBOOK

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Web: Thesis Program and Non-thesis Program

Table of Contents

MISSION & VISION

The overall goal of the Master of Technology in Information Technology (M.Tech. in IT) degree program is to provide master's level instruction in cutting edge computing technology. The program strives to meet the growing global demand for IT professionals who can draw upon a unique combination of technical and theoretical skills to design, implement, maintain and administer IT projects. The program offers project-based courses in IT and is designed to satisfy not only the post baccalaureate development of working professionals, but also new graduates who want to set up careers in IT sector. M.Tech. in IT program is designed for students who already hold a bachelor's degree from an accredited institution in Information Technology, Computer Science, Management of Information Systems, or any related area. Graduates will have the opportunity to study systems and database design, client/server applications, desktop applications, web applications, web services, networks along with analysis and ethical practices in the IT field. M.Tech. in IT program is a non-thesis option which consists of four core courses plus six elective courses and a term project in its curriculum.

The master's degree program focuses on satisfying the needs of users within an organizational and societal context through the selection, creation, application, integration and administration of computing technologies.

The **educational objectives** of the Master of Technology in Information Technology program are as listed below.

Graduates

- are able to contribute to society as broadly educated, expressive, ethical and responsible citizens with proven expertise
- have the knowledge on how to manage ethical issues in research and information technology
- are able to apply knowledge of information technology to produce effective designs and solutions for specific problems
- are able to use current technologies, tools and software systems, and apply best practices to develop real-world solutions for specific problems
- are able to conduct research using qualitative, quantitative and mixed methods
- are equipped with the newest networking technologies via special emphasis on wireless networking and optical networking
- have a full understanding of the management roles, responsibilities and techniques needed in managing technology projects
- have acquired the computational skills necessary to solve theoretical and practical problems for further professional development and for meeting future changes in IT

The **Learning outcomes** of the Master's program **with thesis:**

Graduates,

- Demonstrate advanced understanding and synthesis of key themes and current research in their specialized area of IT.
- Evaluate and navigate ethical considerations inherent to IT practice and research.
- Apply expert-level skills in development and leadership within their specialized IT domain.
- Communicate effectively and proficiently in technical and professional contexts, demonstrating mastery relevant to IT.
- Lead and contribute effectively to IT projects, demonstrating advanced project management capabilities.
- Analyze and critique the broader implications of IT systems and technologies from professional, ethical, societal, and regulatory perspectives.
- Design and implement strategies to ensure the security and resilience of information and IT systems through the selection of appropriate technologies, policies, and procedures.
- Participate in scientific research showcasing the capacity to enhance academic knowledge, thereby facilitating the pursuit of doctoral studies.

The **Learning outcomes** of the Master's program **without thesis**:

Graduates,

- Demonstrate advanced understanding and synthesis of key themes and current research in their specialized area of IT.
- Evaluate and navigate ethical considerations inherent to IT practice and research.
- Apply expert-level skills in development and leadership within their specialized IT domain.
- Communicate effectively and proficiently in technical and professional contexts, demonstrating mastery relevant to IT.
- Propose and justify IT solutions aligned with organizational needs, grounded in rigorous evaluation of alternatives.
- Lead and contribute effectively to IT projects, demonstrating advanced project management capabilities.
- Analyze and critique the broader implications of IT systems and technologies from professional, ethical, societal, and regulatory perspectives.

- Design and implement strategies to ensure the security and resilience of information and IT systems through the selection of appropriate technologies, policies, and procedures.

Graduates may find **employment** in the following fields:

- Internet applications and e-business
- Software and application development
- Database design and administration
- Network and system administration
- Software engineering
- Mobile applications development
- Multimedia applications design
- Commercial applications development
- IT education
- Information system security
- Hardware maintenance and support

ADMISSION REQUIREMENTS

The applicants are required to hold a bachelor's degree from an accredited institution in Information Technology, Computer Science, Computer Engineering, Management of Information Systems, or any related area. Other candidates are required to complete some deficiency/bridging courses in order to be admitted to the master's degree program. The number of deficiency/bridging courses depends upon the undergraduate discipline of the candidate and is decided by the Information Technology Graduate Committee. Those who do not satisfy the admission conditions will be required to attend an interview which will be held by the Information Technology Graduate Committee. In this case, the admission of the student will be decided after the interview and if admitted, the number of deficiency courses will be decided accordingly.

Citizens of the Turkish Republic applying for master's programs with thesis requirement must possess a minimum score of 55 from ALES or an equivalent score from other exams like GMAT or GRE as specified by the Senate. However, ALES requirement is not sought in the master's program applications of graduates of doctorate / proficiency in art / specialty in medicine / specialty in dentistry / specialty in veterinary medicine / specialty in pharmacy programs. ALES is not required for master's programs without thesis requirement.

CURRICULUM

Information Technology Master's Program (with Thesis)

21 Credits 120 ECTS						
Course Code	**Ref. Code**	**Course Name**	**Credit**	**ECTS**	**Category**	**Prerequisites**
ITEC500	ITEC500	Master Thesis	(0,0,0) 0	60	AC	-
ITEC598	ITEC598	Seminar	(0,0,0) 0	4	AC	-
REQ1	REQ1	Area Elective I	(3,0,0) 3	8	AE	-
REQ2	REQ2	Area Elective II	(3,0,0) 3	8	AE	-
REQ3	REQ3	Area Elective III	(3,0,0) 3	8	AE	-
REQ4	REQ4	Area Elective IV	(3,0,0) 3	8	AE	-
REQ5	REQ5	Area Elective V	(3,0,0) 3	8	AE	-
REQ6	REQ6	Area Elective VI	(3,0,0) 3	8	AE	-
REQ7	REQ7	Area Elective VII	(3,0,0) 3	8	AE	-

AC = Area Core AE = Area Elective

Information Technology Master's Program (without Thesis)

30 Credits 90 ECTS						
Course Code	**Ref. Code**	**Course Name**	**Credit**	**ECTS**	**Category**	**Prerequisites**
ITEC511	3T5T1	IT Project Management	(3,0,0) 3	8	AC	-
ITEC514	3T5T2	Research Methods and Ethics in Information Technology	(3,0,0) 3	8	AC	-
REQ1	3T5T3	Area Elective I	(3,0,0) 3	8	AE	-
REQ2	3T5T4	Area Elective II	(3,0,0) 3	8	AE	-
REQ3	3T5T5	Area Elective III	(3,0,0) 3	8	AE	-
ITEC521	3T5T6	Computer Networking Applications	(3,0,0) 3	8	AC	-
ITEC513	3T5T7	Advanced Software Design and Development	(3,0,0) 3	8	AC	-
REQ4	3T5T8	Area Elective IV	(3,0,0) 3	8	AE	-
REQ5	3T5T9	Area Elective V	(3,0,0) 3	8	AE	-
REQ6	3T5TA	Area Elective VI	(3,0,0) 3	8	AE	-

ITEC599	3T5TP	Term Project	(0,0,0) 0	10	AC	-

AC = Area Core AE = Area Elective

DURATION OF STUDY

Duration of study for non-thesis master's programs is 3 academic semesters. No extension could be applied on this duration.

Duration of study for thesis master's programs is 4 academic semesters. It is possible to extend this duration by at most 2 academic semesters.

TUITION FEE

Tuition fee can be calculated using the following link:

https://portal.emu.edu.tr/YeniOgrenciOgrenimUcreti.aspx?lang=en

Hint:

IT Master's program (with thesis) includes 7 courses, a seminar and a thesis in the curriculum

IT Master's program (without thesis) includes 10 courses and a term project in the curriculum

ADVISING

In non-thesis master's program, the department/program chair appoints an academic staff with minimum Ph.D. qualification to each student, to provide assistance in course selection and the term project, latest by the end of first term. However, in case of a term project supervisor not being appointed at the beginning of the semester, an academic advisor is appointed until the end of the first semester. Following the appointment of a term project supervisor, the academic advisor's, if any, duties come to an end.

In thesis master's program, a thesis supervisor is appointed for each student admitted to the graduate program by the end of the first semester, at the latest, with the approval of the department/program chair. However, if the student's thesis supervisor cannot be determined from the beginning of the semester, an academic advisor is assigned to the student to provide consultancy on academic matters until the end of the first semester.

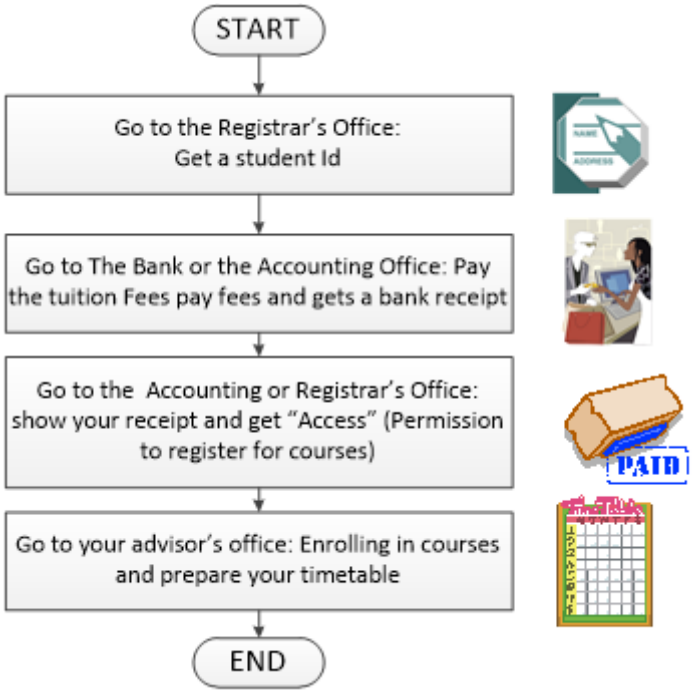
Registering, adding, dropping, withdrawing a course; being part-time student or freezing a semester requires the approval of the academic advisor/thesis supervisor.

REGISTERING COURSES

Link for the academic calendar which includes important dates like registration, last day for add/drop a course, withdraw a course, etc. is given below. All the registration procedures must adhere to the deadlines in the academic calendar.

https://www.emu.edu.tr/academiccalendar

The steps for registration is as shown in the following figure.



Priorities in course selection are as follows:

1. Courses with (C-), (D+), (D), (D-), (F), (NG) grades.
2. Courses with (W) grades.
3. Compulsory courses of previous semesters that have not been taken yet.

LATE REGISTRATION

Late registration is possible during the period specified in the academic calendar. Late registration fees are determined by the Rector's office.

ADD/DROP COURSES

Until the last day for Add/Drop period specified on the academic calendar, students are allowed to change their course schedule by adding a new course or dropping a registered course.

REPEATING COURSES

A student who obtains a grade lower than "C" from a program course will have to repeat the compulsory course in the first semester the course becomes available. For elective courses from which the student fails, the same course or a new course subject to the approval of the academic advisor or thesis supervisor may be taken.

In some cases, a student may be required to take courses that he or she has taken before. The following provisions are applied in repeating a course:

- A student who obtains a (C-), (D+), (D), (D-), (F), (NG) grade from a course must register for the course at the next available opportunity.
- If a student wishes to improve a previously obtained grade, s/he can repeat a course which previously passed. The grade obtained from the repeated course takes the place of the previous grade. However, the first grade still appears on the transcript.

COURSE WITHDRAWAL

Course withdrawal should also be done between the specified dates on the academic calendar. A student who withdraws from a course gets "W" letter grade on the transcript. This grade is not considered for GPA and CGPA calculation.

LEAVE OF ABSENCE

A student, who has a compelling excuse for having a break from University studies for a period of time, may appeal for leave of absence. This period may not exceed four semesters during a course of study for a degree. Leave of absence applications are done online through student portal within first five weeks after the commencement of classes. Medical cases may be considered separately.

WITHDRAWAL FROM THE UNIVERSITY

A student who finds it necessary to withdraw from the University must initiate withdrawal procedures at the Registrar's Office. The official withdrawal procedure requires the student to obtain the necessary clearances from the Registrar's Office and department.

ATTENDANCE REQUIREMENTS

The University believes that the benefits of academic studies come not only from independent study and the preparation of materials for formal grading, but also from participation in class and laboratory activities. Regular attendance of EMU students is

therefore required in all courses for which they are registered. University regulations do not permit unexcused absence or tardiness. For flagrant violation of the spirit of regular class attendance, an EMU faculty member may report an "NG" grade whenever unexcused absences are excessive. “NG” means fail due to absenteeism.

EXAMINATIONS

For each course, there is at least a term project and a final examination with any number of quizzes/tests. The modules handbook which contains the course outlines of each course is available at the program’s web site. Detailed information about the courses including course description, weekly schedule, grading policy, method of assessment and rules/regulations are available on the course outlines.

GRADING POLICY

Letter grades used in the master’s programs are as shown in the following table.

Letter Grade	Grade Point	Definition
A	4.00	Pass
A-	3.70	Pass
B+	3.30	Pass
B	3.00	Pass
B-	2.70	Conditional pass
C+	2.30	Conditional pass
C	2.00	Conditional pass
C-	1.70	Fail
D+	1.30	Fail
D	1.00	Fail
D-	0.70	Fail
F	0.00	Fail
NG	0.00	Fail due to absenteeism
I	-	Incomplete
W	-	Course withdrawn
SS	-	Seminar course satisfactory
SU	-	Seminar course unsatisfactory
PS	-	Term project satisfactory
PI	-	Term project satisfactory subject to modifications
PU	-	Term project unsatisfactory
PP	-	Ongoing term project
TP	-	End of semester thesis study satisfactory

TU	-	End of semester thesis study unsatisfactory
TS	-	Thesis defense satisfactory
TI	-	Thesis defense satisfactory subject to modifications
TR	-	Thesis defense to be renewed
TJ	-	Thesis defense rejected

"W" (withdrawn), indicates withdrawal from a course before the end of a term.

The "I" grade is a temporary reporting symbol, indicating that the student is authorized additional time to submit or complete work. The student must have presented an academically acceptable explanation to his/her instructor stating why the work was not completed within the time limit specified by the instructor. If the “I” grade is not changed by the course instructor before the deadline announced on the academic calendar, it is converted to F.

Achievement in a non-credit-hour course is indicated by the symbols "S" (satisfactory) or "U" (unsatisfactory).

The “NG” grade is given if students do not participate in coursework. A student is considered not participating in class work if he/she has high absenteeism during lecture and/or tutorial (lab) hours or he/she habitually do not submit the classwork and/or homework assigned by his/her lecturer. In the IT department more than 40% absenteeism or missing all exams results in the “NG” grade.

A course is said to have been successfully completed if a student in any scholastic status, except dismiss, obtains a grade of A, A-, B+, B, B-, C+, C or S. A course in which a student receives a grade of C-, D+, D, D-, F, NG or U is not considered to have been satisfactorily completed, and the student is required to repeat such a course in the next semester that it is offered. In the case of repeated coursework, the last grade earned is considered the official course grade.

Students earn credits based on the level of achievement in a course. The credit earned is the product of "Credit-Hour" and "Grade-Point" obtained from a course. A student's academic achievement for each term is expressed numerically by an index referred to as the Grade Point Average (GPA). GPA ranges between 0.00 and 4.00. It is obtained by:

1. calculating credits earned for each course in a term
2. adding these results to obtain total credit-earned in the term
3. dividing the total credit-earned by the total credit-hours attempted for that term

$$\text{GPA} = \frac{\text{Total Credits Earned for a term}}{\text{Total Credit}-\text{Hours Attempted for that term}}$$

Example:

Course Code	Credit Hour	Course Grade	Grade Point	Credit Earned
ITEC5xx	3	A	4.0	12.0
ITEC5xx	3	B-	2.7	8.1
ITEC5xx	3	C+	2.3	6.9
ITEC5xx +	3	C	2.0 +	6.0
	12			33.0

GPA = 33.0/12 = 2.75

A student's overall academic achievement is expressed numerically by an index referred to as the Cumulative Grade-Point Average (CGPA). The CGPA calculation considers all courses taken by the student, but for the repeat courses, only the last grade should be used. The CGPA is obtained by:

1. adding credits earned for all completed term(s)
2. adding credit-hours attempted for all completed term(s)
3. dividing the total credits earned by the total credit-hours attempted for all completed term(s)

$$\text{CGPA} = \frac{\text{Total Credits Earned for all completed terms}}{\text{Total Credit}-\text{Hours Attempted for all completed terms}}$$

GRADUATION

Students who have fulfilled all requirements of the master's degree programs graduate upon the recommendation of the Director of the Institute and approval of the Rector. The graduation date for master's programs with thesis, is the date when the signed copy of thesis is submitted by the exam jury, and in programs without thesis, the date when the graduation conditions have been fulfilled. Graduates are obliged to pay diploma fees determined by the Senate.

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