NEAR EAST UNIVERSITY

INSTITUTE OF GRADUATE STUDIES

PHD PROGRAM in COMPUTER INFORMATION SYSTEMS

COURSE CATALOGUE

2021-22 FALL

➢ QUALIFICATION AWARDED

The students who successfully complete the program are awarded the degree of Doctorate of Computer Information Systems.

➢ LEVEL OF QUALIFICATION

Third Cycle (PhD Degree) program.

➢ SPECIFIC ADMISSION REQUIREMENTS

Prospective students are required to meet the following conditions when applying to doctoral degree programs:

- Diplomas and Graduation Grade Point Average: Prospective students are required to have a master's degree diploma to have admission eligibility for doctoral degree programs. Prospective students, who want to admit doctoral degree programs are required to have at least 80 (eighty) out of 100 (hundred), or 3.00 out of 4.00 (GPA) grade point average in their master's degree (thesis option) program.
- ALES score: In the line with points required by the program applied, prospective students are required to achieve at least 55 (fifty-five) standard points in ALES in order to be eligible for admission to doctoral degree programs. ALES is not required for student admission to programs offered by the departments of Fine Arts, Performing Arts, and Major Arts. Besides, excluding students from Turkey, students from other countries and TRNC are not required to take ALES.
- Evaluation: The result of the interview, ALES score and undergraduate and/or master's degree grade point average are evaluated for student admission to the doctoral degree programs. By taking into account the letter of reference submitted by the student with his/her application form, and the composition indicating why he/she wants to receive doctoral degree education as well as his/her goals, an oral evaluation is realized through an interview.
- Foreign Language Exam: Prospective students, who apply for admission to master's degree programs where the medium of instruction is the Turkish language, are required to achieve at least a score corresponding to "D" in the NEU Foreign Language Proficiency Test (NPT) held by the NEU Rectorate. Prospective students, who apply for doctorate degree programs where the medium of instruction is the English language, are required to achieve at least a score corresponding to "C" in the same exam. In cases where foreign language exam is required, prospective students may be exempted from the foreign language (English) exam within the framework of the paragraph (b) of Article 8 of the Institute of Graduate Studies' Regulations.

➢ QUALIFICATION REQUIREMENTS AND REGULATIONS

The students studying in this undergraduate program are required to have a Cumulative Grade Points Average (CGPA) of not less than 3.00/4.00 and have completed all the courses with at least a letter grade of CC/S in the program in order to graduate. The minimum number of ECTS credits required for graduation is 120.

➢ RECOGNITION OF PRIOR LEARNING

At Near East University, full-time students can be exempted from some courses within the framework of the related bylaws. If the content of the course previously taken in another institution is equivalent to the course offered at NEU, then the student can be exempted from this course with the approval of the related faculty/graduate school after the evaluation of the course content.

➢ PROFILE OF THE PROGRAM

The PhD program in Computer Information Systems is well structured and has been designed to train and prepare students to be critical and creative independent thinkers with abilities to carry out high levels of research in the fields of information technology and business studies. The doctoral program has been designed to prepare students for teaching and research careers involving the design, analysis, and the implementation of computer and business-related topics. The doctoral program starts with a solid foundation in research methodology and teaches the appropriate skills to enable students carry out research and publish their findings in well-known and well-respected international journals. Students graduated from the doctoral program can find jobs as educators in universities, or they can join the research establishments and carry out state of the art research in the fields of computer information systems and business studies.

➢ PROGRAM OUTCOMES

Program Outcomes	
1	To be able to do a study to reach the new developments in a field, to contribute to science/technology using skills and competence, to be able to develop a new scientific method or be able to develop a technology-based product, or adapt a known method to a new field.
2	To contribute to science and technology by carrying out research and publishing the results in academic media and in well-respected international journals.
3	To have in-depth and wide knowledge by following the latest developments in one's field.
4	One that studies in his/her specialist fields and who can communicate effectively written or orally in social gatherings, who can exchange ideas.
5	One that can value the scientific, technological, social, and cultural developments, and that can understanding the society by considering the independent, un-biassed and responsible approach with ethical knowledge.

➢ COURSE & PROGRAM OUTCOMES MATRIX

		Program Outcomes				
Course Code	Course Name	1	2	3	4	5
1st Year - 1st Semester						
GCC603	Ethics and Scientific Research Methods	4	5	4	3	4
CISXXX	Elective					
CISXXX	Elective					
CIS XXX	Elective					
1st Year - 2nd Semester						

GCC602	Education for Learning					
CIS642	New Trends in IT	5	5	5	5	5
CISXXX	Elective					
2nd Year - 1st Semester						
CIS601	Seminar	5	5	5	5	5
*CIS602 is taken after successful completion of all courses and seminar.						
2nd Year - 2nd Semester						
CIS602*	Qualification Exam	5	5	5	5	5
*CIS602 is taken after successful completion of all courses and seminar.						
3rd Year - 1st Semester						
CIS600	Dissertation	5	5	5	5	5
3rd Year - 2nd Semester						
CIS600	Dissertation	5	5	5	5	5
4th Year - 1st Semester						
CIS600	Dissertation	5	5	5	5	5
4th Year - 2nd Semester						
CIS600	Dissertation	5	5	5	5	5
Selected Technical (Field-Related) Elective Courses						
CIS609	Empirical Software Engineering	5	5	3	2	4
CIS611	IT and Business Legal Issues	3	4	4	4	5
CIS612	IT Project Management Strategies	5	4	4	3	4
CIS615	Business Systems	5	5	3	2	4
CIS616	IS Development	5	5	3	4	5
CIS625	Advanced Topics in Human Computer Interaction	5	5	4	4	4
CIS626	Cloud Computing Systems	5	5	3	3	4
CIS627	Data Mining	5	5	5	5	5
CIS631	IT Communication Technologies	5	5	4	4	4
CIS632	Internet Technologies	5	5	4	4	4
CIS635	Games and Gamification	5	5	4	5	5
CIS644	Management of E-Learning Systems	5	5	4	4	4
IKM613	E-Government Studies	5	5	5	4	4
IKM604	Innovation and Knowledge Management Strategies	5	5	4	3	3
IKM605	Knowing Organizations	4	5	5	5	5

* 1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest

➢ OCCUPATIONAL PROFILES OF GRADUATES

The Computer Information Systems PhD Program is designed to provide students with the experience and skills that are required in order to conduct sound research and to lay the foundations to a successful teaching career in the field of computer information technologies and systems.

➢ ACCESS TO FURTHER STUDIES

The students graduating from this program can undertake a post-doctorate level study in related fields of the applied sciences.

➢ PROGRAM STRUCTURE

The thesis option of the Master program in Computer Information Systems consists of 7 courses, seminar, qualification exam and thesis with 240 ECTS credits in total.

Students are required to take a minimum of 2 maximum of 4 courses in each semester. All the elective courses are taken from the other related departments.

➢ COURSE STRUCTURE DIAGRAM WITH COURSE CREDITS

To see the course details (such as objectives, learning outcomes, content, assessment and ECTS workload), click the relevant Course Code given in the table below.

1st Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
GCC603		Ethics and Scientific Research Methods	3	0	3	7,5
CISXXX		Elective	2	2	3	7,5
CISXXX		Elective			3	7,5
CIS XXX		Elective			3	7,5
Total						30

1st Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
GCC602		Education for Learning	3	0	3	7,5
CIS642		New Trends in IT	2	2	3	7,5
CISXXX		Elective			3	7,5
CIS601		Seminar			0	7,5
Total						30

2nd Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS602		Qualification	0	0	0	30
Total						30

2nd Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS600		Thesis	0	0	0	30
Total						30

3rd Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS600		Thesis	0	0	0	30
Total						30

3rd Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS600		Thesis	0	0	0	30
Total						30

4th Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS600		Thesis	0	0	0	30
Total						30

4th Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS600		Thesis	0	0	0	30
Total						30

Field-Related / Technical Elective Courses						
Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
CIS609		Empirical Software Engineering	2	2	3	7,5
CIS611		IT and Business Legal Issues	2	2	3	7,5
CIS612		IT Project Management Strategies	2	2	3	7,5
CIS615		Business Systems	2	2	3	7,5
CIS616		IS Development	2	2	3	7,5
CIS625		Advanced Topics in Human Computer Interaction	2	2	3	7,5
CIS626		Cloud Computing Systems	2	2	3	7,5
CIS627		Data Mining	2	2	3	7,5
CIS631		IT Communication Technologies	2	2	3	7,5
CIS632		Internet Technologies	2	2	3	7,5
CIS635		Games and Gamification	2	2	3	7,5
CIS644		Management of E-Learning Systems	2	2	3	7,5
IKM613		E-Government Studies	2	2	3	7,5
IKM604		Innovation and Knowledge Management Strategies	3	0	3	7,5
IKM605		Knowing Organizations	3	0	3	7,5

Additional Notes
A total of 240 ECTS credits of courses are required to graduate. The Computer Information Systems students must complete the compulsory courses and technical elective courses to provide a total of 240 ECTS credits. Otherwise, they will not be deemed to fulfill the conditions to graduate from the program. Also, students defend their dissertation in front of a jury in addition to courses.
If you need support for these courses due to your disability, please refer to Disability Support Unit. Contact; engelsiz@neu.edu.tr

➢ EXAM REGULATIONS & ASSESSMENT & GRADING

Exam Regulations and, Assessment, and Grading

For each course taken at NEU, the student is given one of the letter grades below by the instructor as the semester course grade. Each grade has also its ECTS grade equivalent

The table below provides the detailed information about the local letter grades, coefficients and ECTS grade equivalents.

SCORE	GRADE	COEFFICIENT	ECTS Grade

90-100	AA	4.0	A
85-89	BA	3.5	B*
80-84	BB	3.0	B*
75-79	CB	2.5	C*
70-74	CC	2.0	C*
60-69	DC	1.5	D
50-59	DD	1.0	E
49 and below	FF	0.0	F

*for these ones, the higher grade is applied

In order to be successful in a course, short cycle (associate degree) and first cycle (bachelor's degree) students have to get a grade of at least DD, second cycle (master's degree) students have to get a grade of at least CC, and third cycle (Ph.D.) students have to get a grade of at least CB to pass a course. For courses which are not included in the cumulative GPA, students need to get a grade of S.

Apart from that, each local grade has it is equivalent ECTS grade which makes it easier to transfer the grades of mobility periods of students. The chart above shows the ECTS grading system at NEU.

Also, among the Letter Grades;

I	Incomplete
S	Satisfactory Completion
U	Unsatisfactory
P	Successful Progress
NP	Not Successful Progress
EX	Exempt
NI	Not included
W	Withdrawal
NA	Never Attended

Grade of I (Incomplete), is given to students who are not able to meet all the course requirements at the end of the semester or summer school due to a valid justification accepted by the instructor. Students

who receive a letter grade "I" must complete their missing course requirements and receive a letter grade within one week following the date the end of semester grades or summer school grades submitted. However, in the event of special cases, this period can be extended until two weeks before the beginning of registration for the next semester, upon the recommendation of the respective Graduate School department head and the decision of that academic unit's administrative board. Otherwise, grade of "I" will automatically become grade of FF, or grade of U.

Grade of S (Satisfactory) is given to students who are successful in non-credited courses.

Grade of U (Unsatisfactory) is given to students who are unsuccessful in non-credited courses.

Grade of P (Successful Progress) is given to students, who continue to the courses that are not included in the GPA that has a period exceeding one semester, and regularly performs the academic studies for the respective semester.

Grade of NP (Not Successful Progress) is given to students, who do not regularly perform the academic studies for the respective semester for courses that are not included in the GPA and have a period exceeding one semester.

Grade of EX (Exempt), is given to students who are exempt from some of the courses in the curriculum.

Grade of NI (Not included) is issued to identify the courses taken by the student in the program or programs which are not included in the GPA of the student. This grade is reported in the students' transcripts with the respective letter grade. Such courses are not counted as the courses in the program that the student is registered to.

Grade of W (Withdrawal) is used for the courses that the student withdraws from in the first ten weeks of the semester following the add/drop period, upon the recommendation of his/ her advisor and the permission of the instructor that teaches the course. A student is not allowed to withdraw from courses during the first two semesters of his/ her associate/undergraduate degree program and from those courses he/she has to repeat and received grade "W" before, which are not included in the grade average. A student is allowed to withdraw from two courses at the most during his/ her associate degree study, and four courses during his/her undergraduate study upon the recommendation of the advisor and the permission of the instructor that teaches the course. A student has to take the course that he/she withdrew from, the first semester in which it is offered.

Grade "NA" (Never Attended) is issued by the instructor for students who fail to fulfil the attendance and/or requirements of the course and/or who lose their right to take the end of semester exam because they failed to take any of the exams administered throughout the semester. Grade "NA" is not considered in the average calculations.

Both the ECTS grades and the local grades of the students are displayed on the official transcript of the students.

➢ GRADUATION REQUIREMENTS

In order to graduate from this undergraduate program, the students are required:

- to succeed in all of the courses listed in the curriculum of the program by getting the grade of at least CC/S with a minimum of 120 ECTS.
- to have a Cumulative Grade Point Average (CGPA) of 3.00 out of 4.00.

➢ MODE OF STUDY

This is a full-time program.

- **PROGRAM DIRECTOR (OR EQUIVALENT)**

Prof. Dr. Nadire Çavuş, Head of Department, Institute of Graduate Studies, Near East University.

- **EVALUATION QUESTIONNAIRES**

Evaluation Survey

Graduation Survey

Satisfaction Survey