2017

YEDİTEPE UNIVERSITY

INSTITUTE OF SOCIAL SCIENCES

COGNITIVE SCIENCE MASTER'S PROGRAM INFORMATION PACKAGE

Program Description:

Cognitive Science investigates the human mind with an interdisciplinary approach. Functional and neuroanatomical aspects of the human cognitive processes as well as modelling of these in a machine are main areas of research in Cognitive Science. Subjects of study include linguistics, memory, artificial intelligence, mathematical modelling of the mind, neuroanatomy, emotion, visual perception, and self.

Cognitive Science Program at Yeditepe University involves six main areas: Computer Science, Linguistics, Cognitive Psychology, Philosophy of Mind, Cognitive Anthropology, and Neuroscience. Students are required to choose a main area as well as a complementary area. After fulfilling the course requirements, students write a thesis which merges at least two areas within Cognitive Science, under the supervision of their supervisors. Based on the recommendations of the supervisor, electives from other graduate programs can be chosen as well.

Establishment:

Cognitive Science M.Sc. Program was established in 2013 under the Institude of Social Sciences. The program is provides education at Yeditepe University Kayışdağı Campus. The program does not have any graduates yet.

Qualification Awarded:

The program is a second level program in Cognitive Science that consists of 120 ECTS credits.

Students receive a Master's degree in Cognitive Science after the successful completion of the program.

Level of the Qualification:

Second Cycle

Specific Admission Requirements:

The students are accepted to the program based on their ranking which is obtained by the evaluation of their resume, statement of purpose, transcript, reference letters and the grade that they obtain in the oral or written exam.

Occupational Profiles of Graduates:

The graduates can utilize their skills in academic settings or in other institutions where they can use their skills and knowledge.

Graduation Requirements:

The students have to attend courses with 21 credits (60 ECTS) and prepare their written thesis (60 ECTS).

Address, Program Director or Equivalent:

Head of the Program

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Program Learning Outcomes:
PLO1. Learning about empirical findings and theoretical perpectives in Cognitive Science.

PLO2. Approaching findings, methods, opinions, and theories in Cognitive Science critically and multi-directionally.

PLO 3. Learning about research methods in Cognitive Science.

PLO 4. Searching the literature and reading, compehending, summarizing, and synthesizing contemporary articles in Cognitive Science.

PLO 5. Forming original research questions in Cognitive Science.

PLO 6. Relying on and converging findings from different disciplines in Cognitive Science in the process of forming a research question.

PLO 7. Conducting all steps of research in Cognitive Science.

PLO 8. Conducting research and applications ethically.

PLO 9. Using contemporary information technologies for following contemporary research and innovations.

PLO 10. Understanding that learning is necessary throughout the lifespan, and obtaining the skills to realize that.

PROGRAM GOALS

PG1. To be able work in institutions and companies where the graduate can use the knowledge and abilities that she/he has obtained in Cognitive Science.

PG2. To be able to transfer their knowledge and experience in Cognitive Science to academic and social environments.

PG3. To be able to use their perspective and knowledge in Cognitive Science in various professional environments.

Teaching and Learning Methods

Teaching-learning methods and strategies are determined to enhance students' skills such as working independently, lifelong learning, observation, teaching others, presentation, critical thinking, teamwork, using information technologies effectively.Teaching styles are also developed in a way to support students with various talents. Teaching-learning methods employed by the program are listed below*:

(*) One or more method can be used in a course based on the requirements of the course.

Teaching – Learning Methods*	**Basic Teaching Activities**	**Tools**
Lecture	Listening and interpretation, observation/processing situations	Standard classroom technology, multimedia devices, projector, computer, overhead projector
Discussion	Listening and interpretation, observation/processing situations, critical thinking, developing questions, teamwork	Standard classroom technology, multimedia devices, projector, computer, overhead projector
Seminar	Research - lifelong learning, writing, reading, Informatics, listening and interpretation, administrative skills	Standard classroom technology, multimedia devices, projector, computer, overhead projector, special equipment
Research	Research-lifelong learning, writing, reading, Informatics, critical thinking, developing questions, administrative skills, observation/processing situations, teamwork, presentation	Internet databases, library databases, e-mail, online chat, web-based discussion forums, special equipment
Simulation/Case Study/Role Playing	Listening and interpretation, observation/processing situations, informatics skills, pre-planned skills	Standard classroom technology, special equipment
Problem Solving	Pre-planned special skills	
Guest Speaker(s)	Listening and interpretation, observation/processing situations	Standard classroom technology, multimedia devices, projector, computer, overhead projector, special equipment

TEACHING AND LEARNING METHODS

COURSE AND PROGRAM LEARNING OUTCOMES

	PLO1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
COGS 501	x	x	x	x					x	
COGS 502	x	x	x			x				x
COGS 505	x	x		x					x	
COGS 506	x	x	x	x					x	
COGS 507	x		x			x		x	x	x
COGS 508	x	x	x	x	x	x		x	x	x
Cse 562			x						x	X
CSE 585			x	x					x	x
COGS 511	x	x		x	x	x	x		x	x
COGS 513	x	x	x	x	x			x	x	
COGS 515	x	x	x	x	x			x	x	
COGS 521	x	x	x	x	x	x	x	x		
COGS 522	x	x	x	x	x	x	x	x		
COGS 523	x	x	x	x	x	x	x	x		
COGS 524	x	x	x	x						x
COGS 525	x		x			x		x	x	x
COGS 526	x		x			x		x	x	x
COGS 527	x	x	x	x	x			x	x	
COGS 528	x	x	x	x	x			x	x	
COGS 529	x	x	x	x	x			x	x	
COGS 530	x	x	x	x	x			x	x	
COGS 531	x	x	x	x	x			x	x	
COGS 532	x	x	x	x	x			x	x	
COGS 533	x	x	x	x	x			x	x	
COGS 534	x	x	x	x	x			x	x	
COGS 535	x	x	x	x	x			x	x	
COGS 597	x	x	x	x	x	x		x	x	
COGS 598	x	x	x	x	x	x	x	x	x	

COURSE CATEGORIES

COURSE CATEGORIES	ECTS
Basic Professional Courses	
Cognitive Science	10
Cognitive Science Seminar	2
Philosophy of Mind	10
Cognition	10
Cognitive Neuroscience	10
Machine Learning	10
Cognitive Anthropology	10
Language and Mind	10
Total	**72**
Area of Expertise Courses (Elective Courses)	7
Selected Readings on Hemispheric Assymetries	7
Cognitive Neuroscience of Memory	7
Selected Readings on Attention and Consciousness	7
Culture, Language and Thought I	7
Culture, Language and Thought II	7
Natural Language Syntax	7
Memory and Identity	7
Advanced Human Memory	7
Cognitive Aging	7
Emotion, Cognition, and Aging	7
Functional Magnetic Resonance Imaging	7
Recent Research in Cognitive Neuroscience	7
Recent Research in Cognition	7
Recent Research in Computer Science	7
Recent Research in Cognitive Anthropology	7
Recent Research in Linguistics	7
Recent Research in Philosophy of Mind	7
Dissertation I	30
Dissertation II	30
Total	**186**
Total of All ECTS	**258**

Y E D İ T E P E
U N I V E R S I T Y

I N S T I T U D E O F S O C I A L S C I E N C E S

CURRICULUM

COGNITIVE SCIENCE MASTER PROGRAM

		First Semester	T	A	L	Y	E
COGS	**501**	Cognitive Science (Obligatory)	3	0	0	**3**	**10**
COGS	**507**	Research Methods in Cognitive Science	3	0	0	**3**	**10**
COGS		(Secondary Area Obligatory Course)	3	0	0	**3**	**10**
						9	**30**

		Second Semester	T	A	L	Y	E
COGS	**502**	Cognitive Science Seminar (Obligatory)	3	0	0	**0**	**2**
		Unrestricted Elective I	3	0	0	**3**	**7**
		Unrestricted Elective II	3	0	0	**3**	**7**
		Unrestricted Elective III	3	0	0	**3**	**7**
		Unrestricted Elective IV	3	0	0	**3**	**7**
						12	**30**

		Third Semester	T	A	L	Y	E
COGS	**597**	Dissertation I	3	0	0	**0**	**30**
						0	**30**

		Fourth Semester	T	A	L	Y	E
COGS	**597**	Dissertation II	3	0	0	**0**	**30**
						0	**30**

T: Theory , A: Application, L: Laboratory, Y: Yeditepe Credit, E: ECTS

Approval Date:

Minimum Degree Requirements	
Credits	20
ECTS	120
Number of Courses	10