

**YAŞAR UNIVERSITY DEPARTMENT OF COMPUTER ENGINEERING**  
**2016-2017 MASTER OF SCIENCE in COMPUTER ENGINEERING CURRICULUM**

Semester 1					
UFND 500	Research Methods and Ethics	3	0	3	8
COMP 5xx	Elective 1	3	0	3	8
COMP 5xx	Elective 2	3	0	3	8
COMP 5xx	Elective 3	3	0	3	8
<b>Total Semester Credits</b>				<b>12</b>	<b>32</b>

Semester 2					
COMP 5xx	Elective 4	3	0	3	8
COMP 5xx	Elective 5	3	0	3	8
COMP 5xx	Elective 6	3	0	3	8
COMP 590	Seminar	0	0	0	4
<b>Total Semester Credits</b>				<b>9</b>	<b>28</b>

Semester 3					
COMP 599	Thesis	0	0	0	30
<b>Total Semester Credits</b>				<b>0</b>	<b>30</b>

Semester 4					
COMP 599	Thesis	0	0	0	30
<b>Total Semester Credits</b>				<b>0</b>	<b>30</b>

**Total: 120 ECTS**

Elective Course Pool-1: Computer Engineering					
COMP 501	Advanced Database Systems	3	0	3	8
COMP 502	Algorithm Analysis and Complexity Theory	3	0	3	8
COMP 503	Spatial Semantic Web	3	0	3	8
COMP 505	Advanced Computer Networks	3	0	3	8
COMP 508	Compiler Design	3	0	3	8
COMP 509	Programming Paradigms	3	0	3	8
COMP 518	Biometrics	3	0	3	8
COMP 519	Advanced Operating Systems	3	0	3	8
COMP 525	Natural Language Processing	3	0	3	8
COMP 526	Evolutionary Computation	3	0	3	8
COMP 528	Ontology Engineering	3	0	3	8
COMP 529	Advanced Artificial Intelligence	3	0	3	8
COMP 532	Logic Programming	3	0	3	8
COMP 533	Data Mining	3	0	3	8
COMP 534	Wireless Sensor and Ad-hoc Networks	3	0	3	8
COMP 540	Spatial Decision Support Systems	3	0	3	8
COMP 542	Data Integration	3	0	3	8
COMP 543	Metaheuristic Optimization Algorithms	3	0	3	8
COMP 544	Formal Methods	3	0	3	8
COMP 551	Probability and Stochastic Processes for Engineers	3	0	3	8
COMP 570	Neural Networks for Biomedical Applications	3	0	3	8

Elective Course Pool-2: Cyber Security					
COMP 504	Cyber Security	3	0	3	8
COMP 506	Advanced Information Theory	3	0	3	8
COMP 548	Advanced Network Security	3	0	3	8
COMP 550	Computer Algebra	3	0	3	8
COMP 552	Computational Number Theory	3	0	3	8
COMP 554	Cryptography	3	0	3	8
COMP 556	Cyber Warfare	3	0	3	8

At most 2 courses from the undergraduate Computer Engineering elective pool (COMP 4XX) can be accepted for elective with the consent of the department.  
 At most 2 courses from other programs (5XX or 6XX) can be accepted for elective with the consent of the department.  
 At most 3 such courses can be taken in total (both from A and B).  
 Possible ECTS deficiencies should be covered by taking extra elective courses, as necessary.