

Curriculum Course List for Forensic Engineering for the Academic Year in 2016 and After

1st Semester Course Plan

COURSE CODE	Course Name	T+L	Compulsory/Elective	ECTS	
ABM105	ALGORITHMS AND PROGRAMMING	3+2	Compulsory	5	
ABM107	FUNDAMENTALS OF DIGITAL FORENSIC ENGINEERING	3+2	Compulsory	5	
ABM109	BASICS OF LAW	2+0	Compulsory	2	
FIZ111	PHYSICS - I	4+0	Compulsory	6	
FIZ105	PHYSICS LABORATORY - I	0+2	Compulsory	2	
MAT161	MATHEMATICS - I	4+0	Compulsory	6	
TRD109	TURKISH LANGUAGE - I	2+0	Compulsory	2	
YDI107	ENGLISH - I	2+0	Compulsory	2	
			Total ECTS	30	

2nd Semester Course Plan

COURSE CODE	Course Name	T+L	Compulsory/Elective	ECTS	
ABM106	PROGRAMMING LANGUAGES	3+2	Compulsory	5	
ABM108	COMPUTER SYSTEMS	3+1	Compulsory	4	
FIZ112	PHYSICS - II	3+0	Compulsory	5	
FIZ106	PHYSICS LABORATORY - II	0+2	Compulsory	2	
MAT104	LINEAR ALGEBRA	2+0	Compulsory	4	
MAT162	MATHEMATICS - II	4+0	Compulsory	6	
TRD110	TURKISH LANGUAGE - II	2+0	Compulsory	2	
YDI108	ENGLISH - II	2+0	Compulsory	2	
			Total ECTS	30	

3rd Semester Course Plan

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COURSE CODE	Course Name	T+L	Compulsory	Elective	ECTS	
ABM209	COMPUTER NETWORKS	3+1	Compulsory		5	
ABM211	DIGITAL FORENSIC ENGINEERING LAWS	3+2	Compulsory		6	
ABM213	DATA STRUCTURES	2+1	Compulsory		4	
ABM215	DATABASE MANAGEMENT SYSTEMS	3+1	Compulsory		5	
AİT209	ATATÜRK'S PRINCIPLES AND REVOLUTION HISTORY - I	2+0	Compulsory		2	
MAT271	DIFFERENTIAL EQUATIONS	4+0	Compulsory		6	
IŞL451	ENTREPRENEURSHIP - I	2+0	Elective		2	
			Total ECTS		30	

	4th Semester Course Plan					
COURSE CODE	Course Name	T+L	Compulsory	Elective	ECTS	
ABM206	PROFESSIONAL ENGLISH	3+0	Compulsory		3	
ABM210	NETWORK AND SYSTEM SECURITY	3+1	Compulsory		5	
ABM212	INTERNET AND E-COMMERCE SECURITY	3+2	Compulsory		5	
ABM214	INFORMATION SECURITY AND ENCRYPTION TECHNIQUES	3+1	Compulsory		5	
ABM216	CYBERCRIME HARDWARE	3+0	Compulsory		4	
AİT210	ATATÜRK'S PRINCIPLES AND REVOLUTION HISTORY - II	2+0	Compulsory		2	
IST234	PROBABILITY AND STATISTICS	3+0	Compulsory		4	
IŞL452	ENTREPRENEURSHIP - II	2+0	Elective		2	
			Total ECTS		30	

	5th Semester Course Plan					
COURSE CODE	Course Name	T+L	Compulsory	Elective	ECTS	
ABM311	ELECTRONIC EVIDENCE AND COMPUTER CRIMES	3+1	Compulsory		5	
ABM313	OPERATING SYSTEMS	3+0	Compulsory		5	

ABM315	CYBERCRIME INVESTIGATION SOFTWARE	3+2	Compulsory	7	
ABM317	CYBERCRIME INVESTIGATION HARDWARE	3+2	Compulsory	7	
ABM319	MULTIMEDIA INFORMATION SYSTEMS	3+2	Compulsory	6	
			Total ECTS	30	

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6th Semester Course Plan

COURSE CODE	Course Name	T+L	Compulsory	Elective	ECTS	
ABM302	FILE SYSTEM ANALYSIS	3+1	Compulsory		5	
ABM304	IDENTIFICATION METHODS AND BIOMETRY	3+1	Compulsory		6	
ABM306	WEB-BASED INFORMATION RETRIEVAL	3+1	Compulsory		5	
ABM308	LABOR LAW	2+0	Compulsory		2	
ABM330	ONLINE CRIME TRACKING	3+1	Elective		6	
ABM332	OPTIMIZATION TECHNIQUES	3+1	Elective		6	
ABM334	DATA COMPRESSION	3+1	Elective		6	
ABM336	DATA MINING	3+1	Elective		6	
ABM338	TEXT-BASED INFORMATION RETRIEVAL SYSTEMS	3+1	Elective		6	
ABM340	BIOINFORMATICS	3+1	Elective		6	
ABM342	WIRELESS/MOBILE NETWORKS	3+1	Elective		6	
ABM344	SECURITY-ORIENTED COMPUTER SYSTEMS	3+1	Elective		6	
ABM346	NUMERICAL METHODS	3+1	Elective		6	
			Total ECTS		72	

	7th Semester Course Plan					

COURSE CODE	Course Name	T+L	Compulsory	Elective	ECTS	
ABM407	ELECTRONIC EVIDENCE COLLECTION AND ANALYSIS	3+2	Compulsory		6	

ABM409	SOFTWARE ETHICS	2+0	Compulsory	4	
ABM411	GRADUATION PROJECT	0+2	Compulsory	5	
ABM413	HUMAN RESOURCE MANAGEMENT	2+0	Compulsory	3	
ABM435	WORKPLACE PRACTICE	0+15	Compulsory	15	
ABM437	WORKPLACE TRAINING	5+0	Compulsory	5	
ABM439	PROFESSIONAL PRACTICE - I	0+2	Compulsory	5	
ABM441	PROFESSIONAL PRACTICE - II	0+2	Compulsory	5	
ABM443	SPEECH RECOGNITION AND PRODUCTION	3+1	Elective	6	
ABM445	AGILE SOFTWARE DEVELOPMENT	3+1	Elective	6	
ABM447	DIGITAL IMAGE PROCESSING TECHNIQUES	3+1	Elective	6	
ABM449	DECISION SUPPORT SYSTEMS	3+1	Elective	6	
ABM451	COMPUTER VISION	3+1	Elective	6	
ABM453	HUMAN-COMPUTER INTERACTION	3+1	Elective	6	
ABM455	MACHINE LEARNING	3+1	Elective	6	
ABM457	MOBILE APPLICATION DEVELOPMENT	3+1	Elective	6	
ABM459	WEBSITE USABILITY	3+1	Elective	6	
ABM461	INFORMATION SECURITY MANAGEMENT	3+1	Elective	6	
	Total ECTS			108	

	8th Semester Course Plan				
COURSE CODE	Course Name	T+L	Compulsory	Elective	ECTS
ABM402	ELECTRONIC EVIDENCE COLLECTION AND ANALYSIS	3+2	Compulsory		6
ABM404	SOFTWARE ETHICS	2+0	Compulsory		4
ABM406	GRADUATION PROJECT	0+2	Compulsory		5
ABM408	HUMAN RESOURCE MANAGEMENT	2+0	Compulsory		3
ABM436	WORKPLACE PRACTICE	0+15	Compulsory		15

ABM438	WORKPLACE TRAINING	5+0	Compulsory	5	
ABM440	PROFESSIONAL PRACTICE - I	0+2	Compulsory	5	
ABM442	PROFESSIONAL PRACTICE - II	0+2	Compulsory	5	
ABM444	SPEECH RECOGNITION AND PRODUCTION	3+1	Elective	6	
ABM446	AGILE SOFTWARE DEVELOPMENT	3+1	Elective	6	
ABM448	DIGITAL IMAGE PROCESSING TECHNIQUES	3+1	Elective	6	
ABM450	DECISION SUPPORT SYSTEMS	3+1	Elective	6	
ABM452	COMPUTER VISION	3+1	Elective	6	
ABM454	HUMAN-COMPUTER INTERACTION	3+1	Elective	6	
ABM456	MACHINE LEARNING	3+1	Elective	6	
ABM458	MOBILE APPLICATION DEVELOPMENT	3+1	Elective	6	
ABM460	WEBSITE USABILITY	3+1	Elective	6	
ABM462	INFORMATION SECURITY MANAGEMENT	3+1	Elective	6	
			Total ECTS	108	
	Elective Course Pool				
BHT101	PREPARATORY SCIENCE	15+0	Elective	0	