



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF COMPUTER ENGINEERING



MASTER (MSc) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
BIM-5501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
BIM-5601	THESIS PREPARATION	C	0	1	1	0	1	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
TOTAL			20	1	21	12	30	

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
BIM-5502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
BIM-5602	THESIS PREPARATION	C	0	1	1	0	1	
BIM-5701	SEMINAR	C	0	2	2	0	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
TOTAL			17	3	20	9	30	

SECOND YEAR

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
BIM-5503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
BIM-5603	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



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FOURTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
BIM-5504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
BIM-5604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



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ELECTIVE COURSES

COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	C	3	0	3	3	5
BIM-5001	PHILOSOPHY AND ETHICS OF ARTIFICIAL INTELLIGENCE	E	3	0	3	3	5
BIM-5002	ADVANCED IMAGE PROCESSING	E	3	0	3	3	5
BIM-5003	INTELLIGENT OPTIMIZATION TECHNIQUES	E	3	0	3	3	5
BIM-5004	DEEP LEARNING AND APPLICATIONS	E	3	0	3	3	5
BIM-5005	ADVANCED MICROCONTROLLERS AND APPLICATIONS	E	3	0	3	3	5
BIM-5006	APPLIED CYBER SECURITY	E	3	0	3	3	5
BIM-5007	ADVANCED DATA MINING	E	3	0	3	3	5
BIM-5008	SWARM INTELLIGENCE ALGORITHMS	E	3	0	3	3	5
BIM-5009	ADVANCED MACHINE LEARNING	E	3	0	3	3	5
BIM-5010	ALGORITHMIC DESIGN AND COMPUTATIONAL COMPLEXITY	E	3	0	3	3	5
BIM-5011	ARTIFICIAL INTELLIGENCE, HUMAN, AND INTERACTION	E	3	0	3	3	5
BIM-5012	PATTERN RECOGNITION	E	3	0	3	3	5
BIM-5013	SIGNAL PROCESSING APPLICATIONS	E	3	0	3	3	5
BIM-5014	BIG DATA ANALYTICS	E	3	0	3	3	5
BIM-5015	ARTIFICIAL NEURAL NETWORKS AND APPLICATIONS	E	3	0	3	3	5
BIM-5016	ADVANCED PROGRAMMING 1	E	3	0	3	3	5
BIM-5017	ADVANCED PROGRAMMING 2	E	3	0	3	3	5
BIM-5018	ADVANCED NATURAL LANGUAGE PROCESSING	E	3	0	3	3	5
BIM-5019	COMPUTATIONAL SEMANTICS	E	3	0	3	3	5
BIM-5020	FUNDAMENTALS OF COMPUTER-BASED DATA ACQUISITION	E	3	0	3	3	5
BIM-5021	COMPLEX NETWORK ANALYSIS	E	3	0	3	3	5
BIM-5022	ADVANCED SOFTWARE ENGINEERING	E	3	0	3	3	5
BIM-5023	SMART CODE ANALYSIS AND TEST APPROACHES	E	3	0	3	3	5