



**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	271 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number 2 of 2015 about increasing the ECTS credit of the compulsory course “**BİL 793 Advanced Skills and Practice**” which is given in the Ph.D program in Computer Engineering, Institute of Science and Engineering; from 2 to 8, starting from 2015- 2016 Academic Year Fall Semester, were approved.*



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**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	272 OF 2015

*The decree of University Curriculum Committee, along with the decrees of Institute Board dated 23.03.2015, 10.04.2015 and with numbers 4, 5 and 6 of 2015, about opening 1 (one) course as shown in the attachment, changing theory – practice course hours and credits of 4 (four) courses, and changing the name of 1 (one) course in the Graduate Program in Polymer Science and Technology, Institute of Science and Engineering, starting from 2015- 2016 Academic Year Fall Semester, were approved.*

**Attachment – 1 of the decree of University Curriculum Committee dated 11.06.2015 and with number 903**

**THE COURSES WHOSE T P C'S WILL BE CHANGED IN THE GRADUATE PROGRAM IN POLYMER SCIENCE AND TECHNOLOGY**

	<b>Old</b>	<b>New</b>	
<b>Course Code - Name</b>	<b>T P C</b>	<b>T P C</b>	<b>ECTS</b>
PBT 618 MASS SPECTROMETRY of MACROMOLECULES	3 3 3	3 0 3	8
PBT 619 BIODEGRADABLE POLYMERS	3 3 3	3 0 3	8
PBT 603 POLYMER CHARACTERIZATION LABORATORY	3 3 3	2 2 3	8
PBT 716 POLYMER PROCESSING LABORATORY	3 3 3	2 2 3	10

**Attachment – 2 of the decree of University Curriculum Committee dated 11.06.2015 and with number 903**

**Table 1**

**Table of Curriculum Program**

**Hacettepe University**

**2014 – 2015**

**Faculty of Science**

**Department of Polymer Science and Technology**

**Graduate Program in Polymer Science and Technology**

FALL					SPRING				
COURSE CODE AND NAME	T	P	C	ECT S - Sections **	COURSE CODE AND NAME	T	P	C	ECT S - Sections **
<b>1st SEMESTER</b>					<b>2nd SEMESTER</b>				
<b>LIST OF COMPULSORY COURSES</b>					<b>LIST OF COMPULSORY COURSES</b>				
					PBT 611 SEMINAR	2	2	3	7 - 15
<b>COMPULSORY COURSES IN TOTAL</b>					<b>COMPULSORY COURSES IN TOTAL</b>				
<b>LIST OF ELECTIVE COURSES</b>					<b>LIST OF ELECTIVE COURSES</b>				
PBT 601 INTRODUCTION TO THE SYNTHETIC POLYMER CHEMISTRY					PBT 612 ADVANCED CHARACTERIZATION TECHNIQUES IN POLYMERS				
PBT 602 CHARACTERIZATION and ANALYSIS of POLYMERS					PBT 613 BASIC PRINCIPLES RUBBER SCIENCE and TECHNOLOGY				
PBT 603 POLYMER CHARACTERIZATION LABORATORY					PBT 614 COMPUTERAIDED DATA ANALYSIS				
PBT 604 SCIENCE and TECHNOLOGY of NATURAL POLYMERS					PBT 616 ADVANCED POLYMERIZATION TECHNIQUES				
PBT 605 COMMODITY, ENGINEERING and ADVANCED POLYMERS					PBT 617 FIBER SCIENCE and TECHNOLOGY				
PBT 606 STRUCTURE PROPERTY RELATIONSHIP IN POLYMERS					PBT 618 MASS SPECTROMETRY of MACROMOLECULES				

PBT 607 BIOMEDICAL POLYMERS					PBT 619 BIODEGRADABLE POLYMERS				
PBT 608 POLYMER FEATURES AND ISSUING TECHNIQUES FOR TISSUE ENGINEERING POLYMERS FOR TISSUE ENGINEERING					PBT 620 CHARACTERIZATION of POLYMERS BY MAGNETIC RESONANCE				
ELECTIVE COURSES IN TOTAL	11	2	12	30	ELECTIVE COURSES IN TOTAL				
<b>SEMESTER TOTAL</b>			<b>12</b>	<b>30</b>	<b>SEMESTER TOTAL</b>			<b>12</b>	<b>30</b>
<b>3rd SEMESTER</b>					<b>4th SEMESTER</b>				
<b>LIST OF COMPULSORY COURSES</b>					<b>LIST OF COMPULSORY COURSES</b>				
PBT 600-01 SPECIAL TOPICS	4	0	0	30.0 - 15	PBT 600-02 SPECIAL TOPICS	4	0	0	30.0 - 15
COMPULSORY COURSES IN TOTAL	4	0	0	30.0	COMPULSORY COURSES IN TOTAL	4	0	0	30.0
LIST OF ELECTIVE COURSES					LIST OF ELECTIVE COURSES				
ELECTIVE COURSES IN TOTAL					ELECTIVE COURSES IN TOTAL				
<b>SEMESTER TOTAL</b>				<b>30.0</b>	<b>SEMESTER TOTAL</b>				<b>30.0</b>
<b>TOTAL</b>				<b>120</b>					
<b>CREDIT AMOUNT FOR COMPULSORY COURSES</b>				<b>67</b>					
<b>CREDIT AMOUNT FOR ELECTIVE COURSES</b>				<b>53</b>					
<b>CREDIT PERCENTAGE FOR COMPULSORY COURSES</b>				<b>11,7 %</b>					
<b>CREDIT PERCENTAGE FOR ELECTIVE COURSES</b>				<b>88,3 %</b>					

*\*Mutual compulsory courses (AIT, TKD, ING, BEB) must be on the list also.*

*\*\* Please indicate the number of only the courses you give with your own code.*

**Table 1 Table of Curriculum Program**  
**Hacettepe University 2014 – 2015**  
**Faculty of Science**  
**Department of Polymer Science and Technology**  
**Ph.D Program in Polymer Science and Technology**



<b>COMPULSORY COURSES IN TOTAL</b>										<b>COMPULSORY COURSES IN TOTAL</b>				
<b>LIST OF ELECTIVE COURSES</b>										<b>LIST OF ELECTIVE COURSES</b>				
PBT 706 RHEOLOGY of POLYMER	3	0	3	10	-	1								
PBT 716 POLYMER PROCESSING LABORATORY	3 2	3 2	3	10	-	1								
PBT 703 POLYMER ENGINEERING	3	0	3	10	-	1								
<b>ELECTIVE COURSES IN TOTAL</b>	<b>8</b>	<b>0</b>	<b>9</b>	<b>30</b>						<b>ELECTIVE COURSES IN TOTAL</b>				
<b>SEMESTER TOTAL</b>				<b>30</b>						<b>SEMESTER TOTAL</b>				<b>30</b>

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>5th SEMESTER</b>						<b>6th SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
PBT 798-I SPECIAL TOPICS	5	0	0	30		PBT 798-II SPECIAL TOPICS	5	0	0	30	
<b>COMPULSORY COURSES IN TOTAL</b>						<b>COMPULSORY COURSES IN TOTAL</b>					
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
<b>ELECTIVE COURSES IN TOTAL</b>						<b>ELECTIVE COURSES IN TOTAL</b>					
<b>SEMESTER TOTAL</b>			<b>0</b>	<b>30</b>		<b>SEMESTER TOTAL</b>			<b>0</b>	<b>30</b>	

<b>FALL</b>	<b>SPRING</b>
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COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>7th SEMESTER</b>						<b>8th SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
PBT 798-III SPECIAL TOPICS	5	0	0	30		PBT 798-IV SPECIAL TOPICS	5	0	0	30	
<b>COMPULSORY COURSES IN TOTAL</b>						<b>COMPULSORY COURSES IN TOTAL</b>					
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
<b>ELECTIVE COURSES IN TOTAL</b>						<b>ELECTIVE COURSES IN TOTAL</b>					
<b>SEMESTER TOTAL</b>			<b>0</b>	<b>30</b>		<b>SEMESTER TOTAL</b>			<b>0</b>	<b>30</b>	
<b>TOTAL</b>				<b>240</b>							
<b>CREDIT AMOUNT FOR COMPULSORY COURSES</b>				<b>160</b>							
<b>CREDIT AMOUNT FOR ELECTIVE COURSES</b>				<b>80</b>							
<b>CREDIT PERCENTAGE FOR COMPULSORY COURSES</b>				<b>11,1</b>							
<b>CREDIT PERCENTAGE FOR ELECTIVE COURSES</b>				<b>88,9</b>							



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17.06.2015	26	273 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number 5 of 2015 about making the changes as shown in the attachment and opening the elective course “**KİM 641 Controlled Polymerization Techniques and Applications (3 0 3 / 6 ECTS)**” in the Graduate Program in Chemistry, Institute of Science and Engineering; and opening the elective course “**KİM 727 Polymer Blends and Applications (3 0 3 / 10 ECTS)**” in the Ph.D Program in Chemistry, Institute of Science and Engineering, starting from 2015- 2016 Academic Year Fall Semester, were approved.*

**Attachment of the decree of University Curriculum Committee dated 11.06.2015 and with number 904**

**Table 1**

**Table of Curriculum Program**

**Hacettepe University**

**2014 – 2015**

**Faculty of Science**

**Department of Chemistry**

**Graduate Program \***

FALL					SPRING				
COURSE CODE AND NAME	T	P	C	ECTS - Sections**	COURSE CODE AND NAME	T	P	C	ECTS - Sections**
<b>1st SEMESTER</b>					<b>2nd SEMESTER</b>				
<b>LIST OF COMPULSORY COURSES</b>					<b>LIST OF COMPULSORY COURSES</b>				
					KİM 600 SEMINAR	2	2	3	10 - 60
<b>COMPULSORY COURSES IN TOTAL</b>				<b>0</b>	<b>COMPULSORY COURSES IN TOTAL</b>				<b>10</b>
<b>LIST OF ELECTIVE COURSES</b>					<b>LIST OF ELECTIVE COURSES</b>				
KİM 6XX ELECTIVE COURSES	3	0	3		KİM 6XX ELECTIVE COURSES	3	0	3	
<b>ELECTIVE COURSES IN TOTAL</b>				<b>30</b>	<b>ELECTIVE COURSES IN TOTAL</b>				
<b>SEMESTER TOTAL</b>				<b>30</b>	<b>SEMESTER TOTAL</b>				<b>30</b>
<b>3rd SEMESTER</b>					<b>4th SEMESTER</b>				
<b>LIST OF COMPULSORY COURSES</b>					<b>LIST OF COMPULSORY COURSES</b>				

KIM 698-I SPECIAL TOPICS	4	0	0	30.0 - 60	KIM 698-II SPECIAL TOPICS	4	0	0	30.0 - 60
<b>COMPULSORY COURSES IN TOTAL</b>				<b>30.0</b>	<b>COMPULSORY COURSES IN TOTAL</b>				<b>30.0</b>
<b>LIST OF ELECTIVE COURSES</b>					<b>LIST OF ELECTIVE COURSES</b>				
<b>ELECTIVE COURSES IN TOTAL</b>					<b>ELECTIVE COURSES IN TOTAL</b>				
<b>SEMESTER TOTAL</b>				<b>30.0</b>	<b>SEMESTER TOTAL</b>				<b>30.0</b>
<b>TOTAL</b>				<b>120</b>					
<b>CREDIT AMOUNT FOR COMPULSORY COURSES</b>				<b>70</b>					
<b>CREDIT AMOUNT FOR ELECTIVE COURSES</b>				<b>50</b>					
<b>CREDIT PERCENTAGE FOR COMPULSORY COURSES</b>				<b>58,3%</b>					
<b>CREDIT PERCENTAGE FOR ELECTIVE COURSES</b>				<b>41,7%</b>					

*\*\* Please indicate the number of only the courses you give with your own code.*

KİM 635	<i>SURFACE CHEMISTRY</i>	3	0	3	6.0
KİM 636	<i>SURFACE ANALYSIS METHODS</i>	3	0	3	6.0
KİM 637	<i>TRACE ELEMENTS and TRACE ANALYSIS TECHNIQUES</i>	3	0	3	6.0
KİM 638	<i>SURFACE CHEMISTRY</i>	3	0	3	6.0
KİM 639	<i>APPLIED ELECTROCHEMISTRY</i>	3	0	3	6.0
KİM 640	<i>ENVIRONMENTAL ANALYTICAL CHEMISTRY</i>	3	0	3	6.0
KİM 641	<i>CONTROLLED POLYMERIZATION METHODS and APPLICATIONS</i>	3	0	3	6.0
KİM 642	<i>CONDUCTING POLYMERS</i>	3	0	3	6.0
KİM 643	<i>DRUG DESIGN</i>	3	0	3	6.0
KİM 644	<i>PHOTOCHEMISTRY</i>	3	0	3	6.0
KİM 651	<i>PHYSICAL ORGANIC CHEMISTRY</i>	3	0	3	6.0
KİM 653	<i>SPECTRAL ANALYSIS of ORGANIC STRUCTURES</i>	3	0	3	6.0
KİM 657	<i>ADVANCED ORGANIC CHEMISTRY</i>	3	0	3	6.0
KİM 658	<i>STEREOCHEMISTRY</i>	3	0	3	6.0
KİM 671	<i>CHEMICAL THERMODYNAMICS</i>	3	0	3	6.0
KİM 672	<i>ADVANCED POLYMER CHEMISTRY</i>	3	0	3	6.0
KİM 673	<i>OZONE CHEMISTRY</i>	3	0	3	6.0
KİM 674	<i>RADIATION CHEMISTRY</i>	3	0	3	6.0
KİM 676	<i>POLYMER DEGRADATION and STABILIZATION</i>	3	0	3	6.0
KİM 677	<i>HYDROGEN BONDING DYNAMICS</i>	3	0	3	6.0
KİM 683	<i>INORGANIC REACTION MECHANISM</i>	3	0	3	6.0
KİM 684	<i>INORGANIC and ORGANOMETALLIC POLYMERS</i>	3	0	3	6.0
KİM 690	<i>THEORETICAL CHEMISTRY</i>	3	0	3	6.0

*Table 2: Table of Service Courses  
Hacettepe University Faculty of Science  
Department of Chemistry*

<i>COURSE CODE - NAME</i>	<i>T</i>	<i>P</i>	<i>C</i>	<i>ECTS</i>	<i>Number of Sections</i>

*\*\* Please write only the courses opened with your own code, by your Department.*

**The service course with the code *KİM 6XX*, offered to other departments, does not exist in our department.**

### **ELECTIVE COURSES IN THE GRADUATE PROGRAM**

		<i>T</i>	<i>P</i>	<i>C</i>	<i>ECTS</i>
<i>KİM 601</i>	<i>THEORETICAL FUNDAMENTALS IN ANALYTICAL CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 602</i>	<i>PRINCIPLES and APPLICATIONS of ADSORPTION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 604</i>	<i>PHYSICAL INORGANIC CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 605</i>	<i>COORDINATION CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 606</i>	<i>ORGANIC REACTION MECHANISM</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 608</i>	<i>NATURAL MACROMOLECULES</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 609</i>	<i>INDUSTRIAL BIOMACROMOLECULES</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>

<i>KİM 610</i>	<i>ADVANCED BIOCHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 613</i>	<i>ATOMIC MASS SPECTROMETRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 614</i>	<i>LIQUID CHROMATOGRAPHIC METHODS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 618</i>	<i>HETEROGENEOUS CATALYSIS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 621</i>	<i>BIOCHROMATOGRAPHY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 622</i>	<i>PROTEOME ANALYSIS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 623</i>	<i>ION EXCHANGE MATERIALS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 624</i>	<i>NUCLEAR CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 625</i>	<i>POLYMER SOLUTION THERMODYNAMICS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 626</i>	<i>SPECTROSCOPIC METHODS IN POLYMER CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 627</i>	<i>ORGANIC CHEMISTRY of MACROMOLECULES</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 628</i>	<i>ADVANCED MEDICINAL CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 629</i>	<i>MATERIAL SCIENCE</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 631</i>	<i>ATOMIC SPECTROSCOPY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 632</i>	<i>MOLECULAR SPECTROSCOPY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 633</i>	<i>SEPARATION METHODS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>
<i>KİM 634</i>	<i>ELECTROANALYTICAL CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6.0</i>

**Table 1**  
**Table of Curriculum Program**  
**Hacettepe University**  
**2014 – 2015**  
**Faculty of Science**  
**Department of Chemistry**  
**Ph.D Program \***

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>1st SEMESTER</b>						<b>2nd SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
<b>COMPULSORY COURSES IN TOTAL</b>						<b>COMPULSORY COURSES IN TOTAL</b>					
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
KİM 7XX ELECTIVE COURSES						KİM 7XX ELECTIVE COURSES					
<b>ELECTIVE COURSES IN TOTAL</b>						<b>ELECTIVE COURSES IN TOTAL</b>					
<b>SEMESTER TOTAL</b>						<b>SEMESTER TOTAL</b>					



COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>3rd SEMESTER</b>						<b>4th SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
KiM 700 SEMINAR	2	2	3	10	- 60	KiM 797 PREPARATION TO PHD COMPREHENSIVE EXAM	0	4	2	30	- 60
<b>COMPULSORY COURSES IN TOTAL</b>				<b>10</b>		<b>COMPULSORY COURSES IN TOTAL</b>				<b>30</b>	
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
KiM 7XX ELECTIVE COURSES	3	0	3								
<b>ELECTIVE COURSES IN TOTAL</b>				<b>20</b>		<b>ELECTIVE COURSES IN TOTAL</b>					
<b>SEMESTER TOTAL</b>				<b>30</b>		<b>SEMESTER TOTAL</b>				<b>30</b>	

COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>5TH SEMESTER</b>						<b>6TH SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
KiM 798-01 SPECIAL TOPICS	5	0	0	30	- 60	KiM 798-02 SPECIAL TOPICS	5	0	0	30	- 60
<b>COMPULSORY COURSES IN TOTAL</b>				<b>30</b>		<b>COMPULSORY COURSES IN TOTAL</b>				<b>30</b>	
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
<b>ELECTIVE COURSES IN TOTAL</b>						<b>ELECTIVE COURSES IN TOTAL</b>					
<b>SEMESTER TOTAL</b>				<b>30</b>		<b>SEMESTER TOTAL</b>				<b>30</b>	

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>7th SEMESTER</b>						<b>8th SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
KiM 798-03 SPECIAL TOPICS	5	0	0	30	- 60	KiM 798-04 SPECIAL TOPICS	5	0	0	30	- 60
<b>COMPULSORY COURSES IN TOTAL</b>						<b>COMPULSORY COURSES IN TOTAL</b>					
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
<b>ELECTIVE COURSES IN TOTAL</b>						<b>ELECTIVE COURSES IN TOTAL</b>					
<b>SEMESTER TOTAL</b>						<b>SEMESTER TOTAL</b>					
			0	30					0	30	
<b>TOTAL</b>											
<b>CREDIT AMOUNT FOR COMPULSORY COURSES</b>											
				160							
<b>CREDIT AMOUNT FOR ELECTIVE COURSES</b>											
				80							
<b>CREDIT PERCENTAGE FOR COMPULSORY COURSES</b>											
				33,3							
<b>CREDIT PERCENTAGE FOR ELECTIVE COURSES</b>											
				66,7							

*\*\* Please indicate the number of only the courses you give with your own code.*

## ELECTIVE COURSES IN THE PHD PROGRAM

		<i>T</i>	<i>P</i>	<i>C</i>	<i>ECTS</i>
<i>KİM 704</i>	<i>PROTEIN PURIFICATION and CHARACTERIZATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 705</i>	<i>ADVANCED ANALYSIS TECHNIQUES of BIOMOLECULES</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 706</i>	<i>BIOMOLECULAR COMPLEXES and MOLECULAR RECOGNITION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 707</i>	<i>RADIOISOTOPES IN BIOCHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 710</i>	<i>CATALYTIC CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 712</i>	<i>ORGANOMETALLIC CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 713</i>	<i>SYNTHESIS of NATURAL PRODUCTS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 714</i>	<i>CHEMOINFORMATICS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 715</i>	<i>REMOVAL of WATER POLLUTION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 716</i>	<i>HETEROCYCLIC CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 717</i>	<i>HEAVY METAL TOXICOLOGY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 718</i>	<i>AFFINITY SENSORS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 719</i>	<i>ADVANCED MASS SPECTROMETRY APPLICATIONS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 720</i>	<i>CHEMICAL SENSORS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 721</i>	<i>CHEMICAL KINETICS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 722</i>	<i>CHARACTERIZATION of POLYMERS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 724</i>	<i>FREE RADICAL CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 727</i>	<i>POLYMER BLENDS and APPLICATIONS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>
<i>KİM 733</i>	<i>SYMMETRY and ITS APPLICATIONS IN CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10.0</i>

KİM 751	APPLIED QUANTUM-ORGANIC CHEMISTRY	3	0	3	10.0
KİM 778	POLYMER PHYSICAL CHEMISTRY I	3	0	3	10.0
KİM 779	POLYMER PHYSICAL CHEMISTRY II	3	0	3	10.0
KİM 782	QSAR:QUANTITATIVE STRUCTURE -ACTIVITY RELATIONSHIP	3	0	3	10.0
KİM 784	CURRENT TOPICS IN POLYMER CHEMISTRY	3	0	3	10.0
KİM 786	BIOINORGANIC CHEMISTRY	3	0	3	10.0
KİM 787	STRUCTURAL INORGANIC CHEMISTRY	3	0	3	10.0
KİM 788	ASYMMETRIC SYNTHESIS	3	0	3	10.0
KİM 790	MACROMOLECULE-METAL COMPLEXES	3	0	3	10.0
KİM 791	NANOFIBER TECHNOLOGIES	3	0	3	10.0
KİM 792	DESIGN and APPL. of COORDINATION COMPOUNDS	3	0	3	10.0
KİM 793	ADVANCED INORGANIC BIOMATERIALS	3	0	3	10.0

*FOR STUDENTS WHO ARE SPECIALIZING IN MEDICINE*

<i>Table 2: Table of Service Courses Hacettepe University Faculty of Science Department of Chemistry</i>							
<i>COURSE CODE - NAME</i>	<i>T</i>	<i>P</i>	<i>C</i>	<i>ECTS</i>	<i>Number of Sections</i>		
<i>KİM 731 ORGANIC CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>2</i>		

*\*\* Please write only the courses opened with your own code, by your Department.*



**HACETTEPE UNIVERSITY**  
**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	274 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number 7 of 2015 about changing **theory – practice course hours and credits** of the course “**BYL 760 Comparative Morphology**”, offered in the Ph.D program in Biology, Institute of Science and Engineering; from **(2 3 3)** to **(3 2 4)** starting from 2015 – 2016 Academic Year, were approved.*



**HACETTEPE UNIVERSITY**  
**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	275 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number 6 of 2015 about opening 1 (one) new elective course called “**JEM 741 Radiogenic Isotope Geochemistry (2 2 3 / 10 ECTS)**” in the Ph.D program of Geological Engineering, Institute of Science and Engineering, starting from 2015 – 2016 Academic Year Fall Semester, were approved.*



**HACETTEPE UNIVERSITY**  
**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	276 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number 8 of 2015 about opening elective courses called “**MDN 645 Evaluation of Mining Projects (3 0 3 / 7 ECTS)**” and “**MDN 729 Mine Valuation (3 0 3 / 10 ECTS)**” in the Graduate and Ph.D programs of Mining Engineering, Institute of Science and Engineering, starting from 2015 – 2016 Academic Year Fall Semester, were approved.*



**HACETTEPE UNIVERSITY**  
**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	277 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number 9 of 2015 about opening 6 (six) new elective courses and making the changes shown in the attachment, in the Graduate program of Computer Engineering, Institute of Science and Engineering, starting from 2015 – 2016 Academic Year Fall Semester, were approved.*

<b>ELECTIVE COURSES IN THE GRADUATE PROGRAM OF COMPUTER ENGINEERING</b>			
<b>COURSE CODE - NAME</b>	<b>T - P - C</b>	<b>ECTS</b>	<b>E/C</b>
<i>BİL 614 TEXT MINING</i>	3 0 3	8	E
<i>BİL 670 STATISTICAL NATURAL LANGUAGE PROCESSING</i>	3 0 3	8	E
<i>BİL 671 PROBABILISTIC LEARNING</i>	3 0 3	8	E
<i>BİL 672 RESEARCH METHODS IN SOFTWARE ENGINEERING</i>	3 0 3	8	E
<i>BİL 673 BUSINESS PROCESS MANAGEMENT</i>	3 0 3	8	E
<i>BİL 674 PARALLEL COMPUTING WITH GPUS</i>	3 0 3	8	E



**Table 1**  
**Table of Curriculum Program**  
**Hacettepe University**  
**2014 – 2015**  
**Faculty of Engineering**  
**Department of Computer Engineering**  
**Graduate Program in Computer Engineering**

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>1st SEMESTER</b>						<b>2nd SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
BİL 601 SEMINAR	2	2	3	4	- 16	BİL 691 ACADEMIC SKILLS AND PRACTICE	0	2	1	2	
<b>COMPULSORY COURSES IN TOTAL</b>						<b>COMPULSORY COURSES IN TOTAL</b>					
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
Elective Courses						Elective Courses					
<b>ELECTIVE COURSES IN TOTAL</b>						<b>ELECTIVE COURSES IN TOTAL</b>					
<b>SEMESTER TOTAL</b>						<b>SEMESTER TOTAL</b>					
<b>FALL</b>						<b>SPRING</b>					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>3rd SEMESTER</b>						<b>4th SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
BİL 600-01 SPECIAL TOPICS	4	0	0	30.0	- 16	BİL 600-02 SPECIAL TOPICS	4	0	0	30.0	- 16
<b>COMPULSORY COURSES IN TOTAL</b>						<b>COMPULSORY COURSES IN TOTAL</b>					

SEMESTER TOTAL			30.0	SEMESTER TOTAL			30.0
TOTAL		25	120				
CREDIT AMOUNT FOR COMPULSORY COURSES		4	6				
CREDIT AMOUNT FOR ELECTIVE COURSES		21	54				
CREDIT PERCENTAGE FOR COMPULSORY COURSES		16	10				
CREDIT PERCENTAGE FOR ELECTIVE COURSES		84	90				

*\*Mutual compulsory courses (AIT, TKD, ING, BEB) must be on the list also.*

*\*\* Please indicate the number of only the courses you give with your own code.*

### **LIST OF ELECTIVE COURSES**

<b>COURSE CODE - NAME</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections</b>
<i>BİL 603 PROGRAMMING LANGUAGE THEORY</i>	3	0	3	8	1
<i>BİL 604 COMPUTATIONAL THEORY</i>	3	0	3	8	1
<i>BİL 614 TEXT MINING</i>	3	0	3	8	1
<i>BİL 625 COMPUTER NETWORKS and OPEN SYSTEMS</i>	3	0	3	8	1
<i>BİL 634 ADVANCED COMPUTER ARCHITECTURE</i>	3	0	3	8	1
<i>BİL 640 SOFTWARE DEVELOPMENT FOR REAL-TIME SYSTEMS</i>	3	0	3	8	1

<i>BİL 641 SOFTWARE DEVELOPMENT FOR PARALLEL COMPUTER</i>	3	0	3	8	1
<i>BİL 642 OPERATING SYSTEM THEORY</i>	3	0	3	8	1
<i>BİL 652 NEXT GENERATION DATABASE MANAGEMENT SYSTEMS</i>	3	0	3	8	1
<i>BİL 653 DATABASE MANAGEMENT SYSTEMS</i>	3	0	3	8	1
<i>BİL 655 WIRELESS NETWORKS</i>	3	0	3	8	1
<i>BİL656 ADVANCED COMPUTER and NETWORK SECURITY</i>	3	0	3	8	1
<i>BİL661 CRYPTOGRAPHY</i>	3	0	3	8	1
<i>BİL662 MOBILE COMPUTING</i>	3	0	3	8	1
<i>BİL670 STATISTICAL NATURAL LANGUAGE PROCESSING</i>	3	0	3	8	1
<i>BİL671 PROBABILISTIC LEARNING</i>	3	0	3	8	1
<i>BİL672 RESEARCH METHODS IN SOFTWARE ENGINEERING</i>	3	0	3	8	1
<i>BİL673 BUSINESS PROCESS MANAGEMENT</i>	3	0	3	8	1
<i>BİL674 PARALLEL COMPUTING WITH GPUS</i>	3	0	3	8	1
<i>BİL681 INFORMATION RETRIEVAL SYSTEMS</i>	3	0	3	8	1
<i>BİL682 ARTIFICIAL INTELLIGENCE</i>	3	0	3	8	1
<i>BİL684 NEURAL NETWORKS</i>	3	0	3	8	1
<i>BİL694 GRAPH THEORY</i>	3	0	3	8	1



**HACETTEPE UNIVERSITY**  
**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	278 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 10.04.2015 and with number 4 of 2015 about opening the elective course called “**ENV 606 Environment Applications of Biosensors (3 0 3 / 10 ECTS)**” in the Graduate program of Environmental Engineering, Institute of Science and Engineering, starting from 2015 – 2016 Academic Year Fall Semester, were approved.*



**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	279 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 10.04.2015 and with number 3 of 2015 about opening elective courses as shown below and making the changes shown in the attachment, in the Graduate program of Physics Engineering, Institute of Science and Engineering, starting from 2015 – 2016 Academic Year Fall Semester, were approved.*

<b>ELECTIVE COURSES IN THE GRADUATE AND PHD PROGRAMS OF PHYSICS ENGINEERING</b>					
<b>COURSE CODE - NAME</b>	<b>T – P – C</b>			<b>ECTS</b>	<b>E/C</b>
<i>FİZ 631 COMPUTATIONAL DISCRETE GROUPS IN PHYSICS</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>7</i>	<i>E</i>
<i>FİZ 632 COMPUTATIONAL APPLICATIONS IN SOLID STATE PHYSICS</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>7</i>	<i>E</i>
<i>FİZ 633 DATA ANALYSIS IN HIGH ENERGY PHYSICS</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>7</i>	<i>E</i>
<i>FİZ 729 MONTE CARLO SIMULATION IN HIGH ENERGY PHYSICS</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>7</i>	<i>E</i>

**Attachment of the decree of University Curriculum Committee dated 11.06.2015 and with number 910**

**Table 1**

**Table of Curriculum Program  
Hacettepe University  
2014 – 2015  
Institute of Science  
Department of Physics Engineering  
Graduate Program in Physics Engineering**

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>1st SEMESTER</b>						<b>2nd SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
FİZ 601 CLASSICAL MECHANICS	4	0	4	8	- 1	FİZ 602 ELECTROMAGNETIC THEORY	4	0	4	8	- 1
FİZ 603 STATISTICAL MECHANICS	4	0	4	8	- 1	FİZ 604 QUANTUM MECHANICS	4	0	4	8	- 1
FİZ 605 SEMINAR	2	2	3	7	- 40						
<b>COMPULSORY COURSES IN TOTAL</b>	<b>10</b>	<b>2</b>	<b>11</b>	<b>23</b>		<b>COMPULSORY COURSES IN TOTAL</b>	<b>8</b>	<b>0</b>	<b>8</b>	<b>16</b>	
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
						FİZ 606 RELATIVISTIC QUANTUM MECHANICS	2	2	3	7	- 1
FİZ 607 BIOPHYSICS I	2	2	3	7	- 1	FİZ 608 BIOPHYSICS II	2	2	3	7	- 1
FİZ 609 PHASE TRANSITIONS and CRITICAL PHENOMENA I	2	2	3	7	- 1	FİZ 610 PHASE TRANSITIONS and CRITICAL PHENOMENA II	2	2	3	7	- 1

FİZ 611 MAGNETIC RESONANCE I	2	2	3	7	-	1	FİZ 612 MAGNETIC RESONANCE II	2	2	3	7	-	1
FİZ 613 MOLECULAR PHYSICS I	2	2	3	7	-	1	FİZ 614 MOLECULAR PHYSICS II	2	2	3	7	-	1
FİZ 615 TECHNICAL METHODS IN PHYSICS I	2	2	3	7	-	1	FİZ 616 TECHNICAL METHODS IN PHYSICS II	2	2	3	7	-	1
FİZ 617 SEMICONDUCTOR DEVICE and MAT. CHARACTERIZATION I	2	2	3	7	-	1	FİZ 618 SEMICONDUCTOR DEVICE and MAT. CHARACTERIZATION II	2	2	3	7	-	1
FİZ 619 INDUSTRIAL APPLICATIONS of X-RAYS	2	2	3	7	-	1	FİZ 620 NUCLEAR RADIATION DETECTION METHODS	2	2	3	7	-	1
FİZ 621 ATOMIC and MOLECULAR CLUSTERS	2	2	3	7	-	1	FİZ 622 HIGH PRESSURE PHYSICS	2	2	3	7	-	1
FİZ 623 QUANTUM INFORMATION I	2	2	3	7	-	1	FİZ 624 QUANTUM INFORMATION II	2	2	3	7	-	1
FİZ 625 NANOTECHNOLOGY and APPLICATIONS	2	2	3	7	-	1	FİZ 626 MODERN CHARACTERIZATION TECHNIQUES FOR NANOSTRUCTU	2	2	3	7	-	1
FİZ 627 CONDENSED MATTER PHYSICS	2	2	3	7	-	1	FİZ 628 THIN FILM OPTICS and APPLICATIONS	2	2	3	7	-	1
FİZ 629 COMPUTER AIDED DATA ACQUISITION and ANALYSES	2	2	3	7	-	1	FİZ 632 COMPUTATIONAL APPLICATIONS IN SOLID STATE PHYSICS	2	2	3	7	-	1
FİZ 631 COMPUTATIONAL DISCRETE GROUPS IN PHYSICS	2	2	3	7	-	1							
FİZ 633 DATA ANALYSIS IN HIGH ENERGY PHYSICS	2	2	3	7	-	1							
<b>ELECTIVE COURSES IN TOTAL</b>			<b>3</b>	<b>7</b>			<b>ELECTIVE COURSES IN TOTAL</b>			<b>6</b>	<b>14</b>		
<b>SEMESTER TOTAL</b>			<b>14</b>	<b>30</b>			<b>SEMESTER TOTAL</b>			<b>14</b>	<b>30</b>		

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>3rd SEMESTER</b>						<b>4th SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
FİZ 600-01 SPECIAL TOPICS	4	0	0	30.0	- 40	FİZ 600-02 SPECIAL TOPICS	4	0	0	30.0	- 40
<b>COMPULSORY COURSES IN TOTAL</b>				<b>30.0</b>		<b>COMPULSORY COURSES IN TOTAL</b>				<b>30.0</b>	
<b>SEMESTER TOTAL</b>				<b>30.0</b>		<b>SEMESTER TOTAL</b>				<b>30.0</b>	
<b>TOTAL</b>			<b>28</b>	<b>120</b>							
<b>CREDIT AMOUNT FOR COMPULSORY COURSES</b>			<b>19</b>	<b>39</b>							
<b>CREDIT AMOUNT FOR ELECTIVE COURSES</b>			<b>9</b>	<b>21</b>							
<b>CREDIT PERCENTAGE FOR COMPULSORY COURSES</b>				<b>65</b>							
<b>CREDIT PERCENTAGE FOR ELECTIVE COURSES</b>				<b>35</b>							



**Table 1****Table of Curriculum Program****Hacettepe University 2014 – 2015****Institute of Science Department of Physics Engineering****Ph.D Program in Physics Engineering**

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>1st SEMESTER</b>						<b>2nd SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
FİZ 701 ADVANCED QUANTUM MECHANICS	4	0	4	8	- 1	FİZ 702 ADVANCED STATISTICAL MECHANICS	4	0	4	8	- 1
FİZ 703 ADVANCED MATHEMATICS IN PHYSICS I	4	0	4	8	- 1	FİZ 704 ADVANCED MATHEMATICS IN PHYSICS II	4	0	4	8	- 1
<b>COMPULSORY COURSES IN TOTAL</b>						<b>COMPULSORY COURSES IN TOTAL</b>					
<b>8 0 8 16</b>						<b>8 0 8 16</b>					
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
FİZ 707 STATISTICAL FIELD THEORY I	2	2	3	7	- 1	FİZ 708 STATISTICAL FIELD THEORY II	2	2	3	7	- 1
FİZ 709 ADVANCED MAGNETIC RESONANCE	2	2	3	7	- 1	FİZ 710 QUANTUM FIELD THEORY	2	2	3	7	- 1
FİZ 711 X-RAY CRYSTALLOGRAPHY	2	2	3	7	- 1	FİZ 712 BIOMACROMOLECULAR CRYSTALLOGRAPHY	2	2	3	7	- 1
FİZ 713 ADVANCED CONDENSED MATTER PHYSICS	2	2	3	7	- 1	FİZ 714 OPTICAL PROPERTIES of SOLIDS	2	2	3	7	- 1
FİZ 721 GROUP THEORY	2	2	3	7	- 1	FİZ 722 THEORY of GENERAL RELATIVITY	2	2	3	7	- 1



<b>COMPULSORY COURSES IN TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>COMPULSORY COURSES IN TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>30</b>
<b>LIST OF ELECTIVE COURSES</b>					<b>LIST OF ELECTIVE COURSES</b>				
<b>ELECTIVE COURSES IN TOTAL</b>					<b>ELECTIVE COURSES IN TOTAL</b>				
<b>SEMESTER TOTAL</b>			<b>0</b>	<b>30</b>	<b>SEMESTER TOTAL</b>			<b>0</b>	<b>30</b>

<b>FALL</b>						<b>SPRING</b>					
<b>COURSE CODE AND NAME</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Section</b>	<b>COURSE CODE AND NAME</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Section</b>
<b>7th SEMESTER</b>						<b>8th SEMESTER</b>					
<b>LIST OF COMPULSORY COURSES</b>						<b>LIST OF COMPULSORY COURSES</b>					
FİZ 700-03 SPECIAL TOPICS	5	0	0	30	- 40	FİZ 700-04 SPECIAL TOPICS	5	0	0	30	- 40
<b>COMPULSORY COURSES IN TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>30</b>		<b>COMPULSORY COURSES IN TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>30</b>	
<b>LIST OF ELECTIVE COURSES</b>						<b>LIST OF ELECTIVE COURSES</b>					
<b>ELECTIVE COURSES IN TOTAL</b>						<b>ELECTIVE COURSES IN TOTAL</b>					
<b>SEMESTER TOTAL</b>			<b>0</b>	<b>30</b>		<b>SEMESTER TOTAL</b>			<b>0</b>	<b>30</b>	
<b>TOTAL</b>			<b>43</b>	<b>240</b>							
<b>CREDIT AMOUNT FOR COMPULSORY COURSES</b>			<b>18</b>	<b>32</b>							
<b>CREDIT AMOUNT FOR ELECTIVE COURSES</b>			<b>25</b>	<b>58</b>							
<b>CREDIT PERCENTAGE FOR COMPULSORY COURSES</b>				<b>36</b>							
<b>CREDIT PERCENTAGE FOR ELECTIVE COURSES</b>				<b>64</b>							



**HACETTEPE UNIVERSITY**  
**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	280 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 10.04.2015 and with number 2 of 2015 about removing the prerequisite course (**KUM 611 Probability and Statistics for Engineers**) for some of the courses in Evening Education Graduate Program (Without Thesis) in Quality and Conformity Assessment Engineering, Institute of Science and Engineering, not to make it an obstacle for students whose backgrounds are sufficient, because students already form the sufficient background in probability and statistics in undergraduate studies for the courses with prerequisites, were approved.*

<b>THE COURSES WHOSE PREREQUISITES WILL BE REMOVED IN THE EVENING EDUCATION GRADUATE PROGRAM (WITHOUT THESIS) IN QUALITY AND CONFORMITY ASSESSMENT ENGINEERING</b>			
<b>COURSE CODE - NAME</b>	<b>T - P - C</b>	<b>ECTS</b>	<b>E/C</b>
KUM 620 QUALITY CONTROL	3 0 3	8	C
KUM 622 DESIGN AND ANALYSIS OF ENGINEERING EXPERIMENTS	3 0 3	8	C
KUM 651 ANALYSIS AND VISION OF TIME SERIES	3 0 3	7	E
KUM 652 REGRESSION ANALYSIS	3 0 3	7	E
KUM 654 RELIABILITY ENGINEERING	3 0 3	7	E



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**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	281 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number EKK/2015 – 04 - 01 about making the changes as shown in the attachment, in the articles **D5** and **D16** in the course information booklets of Evening Education Graduate Program (Without Thesis) and Ph.D programs in Preschool Education, Institute of Educational Sciences, starting from 2015 – 2016 Academic Year, were approved.*

**Attachment of the decree of University Curriculum Committee dated 11.06.2015 and with number 912**

**CHANGES TO BE MADE ON THE ARTICLES D5 AND D16 IN THE GRADUATE PROGRAM (WITHOUT THESIS) OF PRESCHOOL EDUCATION**

OLD VERSION	NEW VERSION
<b>D5. QUALIFICATION REQUIREMENTS AND REGULATIONS</b>	
<p><del>In order to graduate and to receive non-thesis masters' license from the program, students should take minimum of two required courses during the first and second semesters. During the third semester, students are expected to successfully complete their semester projects. The semester project is a non-credit work and students will be evaluated as being successful or not. Also, students should register for the semester project and at the end they should prepare a written report about their projects. To be able to graduate from the program, a student should be successful of semester project and should have minimum of 2.50 academic average points.</del></p> <p><del>According to YOK regulations, minimum of 90 ECTS (AKTS), including semester project should be completed by the student.</del></p>	<p>Students must complete 90 ECTS courses successfully. To be able to graduate from the program, a student should be successful of semester project and should have a minimum of 2.50 CGPA.</p>
<b>D16. GRADUATION REQUIREMENTS</b>	
<p><del>In order to graduate and to receive non-thesis masters' license from the program, students should take minimum of two required courses during the first and second semesters. During the third semester, students are expected to successfully complete their semester</del></p>	<p>In order to graduate and to receive non-thesis masters' license from the program, students must pass the compulsory courses during the first and second semesters and be successful on the term project. Also, students must register for the term project and at the end they should</p>

~~projects. The semester project is a non-credit work and students will be evaluated as being successful or not. Also, students should register for the semester project and at the end they should prepare a written report about their projects. To be able to graduate from the program, a student should be successful of semester project and should have minimum of 2.50 academic average points. According to YOK regulations, minimum of 90 ECTS (AKTS), including semester project should be completed by the student.~~

prepare a written report about their project. To be able to graduate from the program, a student should be successful of semester project and should have minimum of 2.50 CGPA. According to YOK regulations, the total of 90 ECTS (AKTS), including term project, must be completed by the student.



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**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	282 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number EKK/2015 – 04 - 02 about opening the elective courses as shown below, in the Graduate Program and Ph.D programs in Computer Education and Instructional Technologies, Institute of Educational Sciences, starting from 2015 – 2016 Academic Year, were approved.*

<b>ELECTIVE COURSES IN THE GRADUATE AND PHD PROGRAMS OF COMPUTER EDUCATION AND INSTRUCTIONAL TECHNOLOGIES</b>				
<b>COURSE CODE - NAME</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>
BTÖ 612 EDUCATIONAL DESIGN, DEVELOPMENT AND ASSESSMENT	2	2	3	7
BTÖ 618 DIGITAL STORY TELLING FOR TEACHING AND LEARNING	2	2	3	8
BTÖ 720 MIXED METHODS FOR EDUCATIONAL RESEARCH	3	0	3	10





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**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	283 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 23.03.2015 and with number EKK/2015 – 05 - 01 about making the changes shown below, in the Graduate Program with Thesis program in German Language Teaching, Department of Foreign Language Teaching, Institute of Educational Sciences, starting from 2015 – 2016 Academic Year, were approved.*

**CHANGES TO BE MADE IN THE GRADUATE PROGRAM (WITH THESIS) OF GERMAN LANGUAGE TEACHING /  
DEPARTMENT OF FOREIGN LANGUAGE TEACHING, INSTITUTE OF EDUCATIONAL SCIENCES**

<b>Course Code - Name</b>	<b>Status</b>	<b>Current Version</b>				<b>New Version</b>			
		<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>
<i>ADÖ 626 ASSESSMENT and EVALUATION IN GERMAN L. TEACHING</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<i>ADÖ 620 USE of TECHNOLOGY IN GERMAN TEACHING</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>
<i>ADÖ 618 LANGUAGE-CULTURE INTERACTION IN GERMAN TEACHING II</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<i>ADÖ 616 LITERARY TEXTS IN GERMAN TEACHING II</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>
<i>ADÖ 614 APPLIED LINGUISTICS and GERMAN LANGUAGE TEACHING</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>
<i>ADÖ 610 APPROACHES IN GERMAN TEACHING and COURSEBOOK EVALUATION</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>



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**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	284 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 09.04.2015 and with number EKK/2015 – 05 - 06 about making the changes shown in the attachment, in the Graduate Program with Thesis and Ph.D programs in Elementary Science Education, Department of Primary Education, Institute of Educational Sciences, starting from 2015 – 2016 Academic Year, were approved.*

**Attachment – 1 of the decree of University Curriculum Committee dated 11.06.2015 and with number 915**

**INSTITUTE OF EDUCATIONAL SCIENCES**

**DEPARTMENT OF PRIMARY EDUCATION DIVISION OF SCIENCE TEACHING**

**CHANGES TO BE MADE IN THE GRADUATE PROGRAM (WITH THESIS)**

**COURSES WHOSE T-P-C AND ECTS CREDITS HAVE BEEN CHANGED**

**FALL SEMESTER**

<b>Course Code - Name</b>	<b>Status</b>	<b>Current Version</b>				<b>New Version</b>			
		<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>
<i>FBÖ 651 SEMINAR</i>	<i>C</i>	<i>4</i>	<i>0</i>	<i>0</i>	<i>7</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>7</i>
<i>FBÖ 661 LABORATORY USING TECHNIQUES IN SCIENCE EDUCATION</i>	<i>E</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>5</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<i>FBÖ 663 FOUNDATIONS of PHILOSOPHY of SCIENCE</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>
<i>FBÖ 669 DETERMI. and OVERCOMING of MISCONCEPT. IN SCI. EDU</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>6</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<i>FBÖ 671 SOCIAL SEXUALITY and SEXUAL HEALTH</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>
<i>FBÖ 673 ASTRONOMY FOR SCIENCE TEACHERS</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>9</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>

**SPRING SEMESTER**

<b>Course Code - Name</b>	<b>Status</b>	<b>Current Version</b>				<b>New Version</b>			
		<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>
<i>FBÖ 652 RESEARCH METHODS</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>9</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<i>FBÖ 654 QUALITATIVE RESEARCH IN SCIENCE EDUCATION</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>	<i>3</i>	<i>2</i>	<i>3</i>	<i>8</i>
<i>FBÖ 658 CREATIVE DRAMA IN SCIENCE EDUCATION</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>9</i>	<i>3</i>	<i>2</i>	<i>3</i>	<i>8</i>
<i>FBÖ 668 MODEL-BASED SCIENCE EDUCATION</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>5</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<b>COURSES TO BE OPENED NEW</b>									
<i>FBÖ 656 RESEARCH IN ASTRONOMY EDUCATION</i>	<i>E</i>					<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<b>TO BE ADDED TO ANY SEMESTER</b>									
<i>FBÖ 672 MULTICULTURALITY IN SCIENCE EDUCATION</i>	<i>E</i>					<i>3</i>	<i>2</i>	<i>3</i>	<i>10</i>

**INSTITUTE OF EDUCATIONAL SCIENCES**

**DEPARTMENT OF PRIMARY EDUCATION DIVISION OF SCIENCE TEACHING**

**COURSES TO BE DONE IN THE PHD PROGRAM**

**COURSES WHOSE T-P-C AND ECTS CREDITS HAVE BEEN CHANGED**

**FALL SEMESTER ELECTIVE COURSES**

<b>Course Code - Name</b>	<b>Status</b>	<b>Current Version</b>				<b>New Version</b>			
		<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>
<i>FBÖ 701 THESIS SEMINAR</i>	<i>C</i>	<i>2</i>	<i>2</i>	<i>0</i>	<i>7</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>10</i>
<i>FBÖ 703 QUANTITATIVE RESEARCH METHODS</i>	<i>E</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>8</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>10</i>
<b>COURSES TO BE OPENED NEW</b>									
<i>FBÖ 709 PHILOSOPHY OF SCIENCE AND SCIENTIFIC EXPLANATIONS</i>	<i>E</i>					<i>4</i>	<i>0</i>	<i>4</i>	<i>10</i>
<i>FBÖ 714 CURRENT APPROACHES IN TEACHER EDUCATION AND PROFESSIONAL DEVELOPMENT</i>	<i>E</i>					<i>3</i>	<i>0</i>	<i>3</i>	<i>10</i>
<b>ANY SEMESTER – ELECTIVE COURSES</b>									
<i>FBÖ 712 EDUCATIONAL RESEARCH</i>	<i>E</i>					<i>3</i>	<i>0</i>	<i>3</i>	<i>10</i>
<i>FBÖ 715 NATIONAL AND INTERNATIONAL SCIENCE EDUCATION POLICIES</i>	<i>E</i>					<i>3</i>	<i>2</i>	<i>3</i>	<i>10</i>
<i>FBÖ 710 GLOBALIZATION IN SCIENCE EDUCATION AND MULTICULTURALITY</i>	<i>E</i>					<i>3</i>	<i>2</i>	<i>3</i>	<i>10</i>

**Table 1**



<b>TOTAL</b>			<b>24</b>	<b>120</b>
<b>CREDIT AMOUNT FOR COMPULSORY COURSES</b>			<b>3</b>	<b>7</b>
<b>CREDIT AMOUNT FOR ELECTIVE COURSES</b>			<b>21</b>	<b>53</b>
<b>CREDIT PERCENTAGE FOR COMPULSORY COURSES</b>			<b>12</b>	
<b>CREDIT PERCENTAGE FOR ELECTIVE COURSES</b>			<b>88</b>	

*\*Mutual compulsory courses (AIT, TKD, ING, BEB) must be on the list also.*

*\*\* Please indicate the number of only the courses you give with your own code.*

<b>ELECTIVE COURSES IN FALL SEMESTER</b>						<b>ELECTIVE COURSES IN SPRING SEMESTER</b>					
<b>COURSE CODE - NAME</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections**</b>	<b>COURSE CODE - NAME</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections</b>
<i>FBÖ 653 BASIC STATISTICS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>	<i>1</i>	<i>FBÖ 652 RESEARCH METHODS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>9 8</i>	<i>1</i>
<i>FBÖ 655 MEASUREMENT and ASSESSMENT APPROACHES IN EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>	<i>1</i>	<i>FBÖ 654 QUALITATIVE RESEARCH IN SCIENCE EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7 8</i>	<i>1</i>
<i>FBÖ 659 COMP. BASED SCIENCE EDU.- FOUNDATIONS of EDU. TECH</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>7</i>	<i>1</i>	<i>FBÖ 658 CREATIVE DRAMA IN SCIENCE EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>9 8</i>	<i>1</i>
<i>FBÖ 661 LABORATORY USING TECHNIQUES IN</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>5 8</i>	<i>1</i>	<i>FBÖ 660 PROFESSIONAL DEVELOPMENT IN</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>7</i>	<i>1</i>



<i>SCIENCE EDUCATION</i>						<i>TEACHER EDUCATION</i>					
<i>FBÖ 663 FOUNDATIONS of PHILOSOPHY of SCIENCE</i>	3	0	3	6 7	1	<i>FBÖ 662 INSTRUCT. METH. IN SCIENCE EDU.- FROM THEO. TO PRAC</i>	3	2	3	7	1
<i>FBÖ 665 LEARNING SCIENCE IN INFORMAL SETTING</i>	2	2	3	7	1	<i>FBÖ 666 SCIENCE EDU. CURRICULAS IN TURKEY and IN THE WORLD</i>	3	2	3	7	1
<i>FBÖ 667 INQUIRY BASED SCIENCE TEACHING (IBST)</i>	3	0	3	7	1	<i>FBÖ 668 MODEL-BASED SCIENCE EDUCATION</i>	3	0	3	5 8	1
<i>FBÖ 669 DETERMI. and OVERCOMING of MISCONCEPT. IN SCI. EDU</i>	3	0	3	7 8	1	<i>FBÖ 670 PROBLEM-BASED LEARNING APPROACH IN SCIENCE EDU.</i>	3	2	3	7	1
<i>FBÖ 671 SOCIAL SEXUALITY and SEXUAL HEALTH</i>	3	0	3	5 7	1	<i>FBÖ 656 RESEARCH IN ASTRONOMY EDUCATION (NEWLY ADDED)</i>	3	0	3	8	1
<i>FBÖ 673 ASTRONOMY FOR SCIENCE TEACHERS</i>	3	0	3	9 7	1						
<b>ANY SEMESTER</b>											
<i>FBÖ 672 MULTICULTURALITY IN SCIENCE EDUCATION (NEWLY ADDED)</i>	3	2	3	10	1						





<b>COMPULSORY COURSES IN TOTAL</b>				<b>30</b>	<b>COMPULSORY COURSES IN TOTAL</b>					<b>30</b>	
<b>LIST OF ELECTIVE COURSES</b>					<b>LIST OF ELECTIVE COURSES</b>						
<b>ELECTIVE COURSES IN TOTAL</b>					<b>ELECTIVE COURSES IN TOTAL</b>						
<b>SEMESTER TOTAL</b>				<b>0 30</b>	<b>SEMESTER TOTAL</b>					<b>0 30</b>	
<b>TOTAL</b>				<b>24 240</b>							
<b>CREDIT AMOUNT FOR COMPULSORY COURSES</b>				<b>3 7</b>							
<b>CREDIT AMOUNT FOR ELECTIVE COURSES</b>				<b>21 83</b>							
<b>CREDIT PERCENTAGE FOR COMPULSORY COURSES</b>				<b>8</b>							
<b>CREDIT PERCENTAGE FOR ELECTIVE COURSES</b>				<b>82</b>							

*\*Mutual compulsory courses (AIT, TKD, ING, BEB) must be on the list also.*

*\*\* Please indicate the number of only the courses you give with your own code.*

<b>ELECTIVE COURSES IN FALL SEMESTER</b>						<b>ELECTIVE COURSES IN SPRING SEMESTER</b>					
<b>COURSE CODE - NAME</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections**</b>	<b>COURSE CODE - NAME</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections</b>
<i>FBÖ 703 QUANTITATIVE RESEARCH METHODS</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>10</i>	<i>1</i>	<i>FBÖ 702 QUALITATIVE RESEARCH IN SCIENCE EDUCATION</i>	<i>3</i>	<i>2</i>	<i>3</i>	<i>10</i>	<i>1</i>
<i>FBÖ 705 DISCOURSE ANALYSIS and</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>10</i>	<i>1</i>	<i>FBÖ 704 EDUCATION FOR SUSTAINABLE</i>	<i>3</i>	<i>2</i>	<i>3</i>	<i>10</i>	<i>1</i>

<i>ARGUMENTATION</i>						<i>DEVELOPMENT</i>					
<i>FBÖ 707 ISSUES RELATED WITH SCI. EDU. and THEIR SOLUTIONS</i>	3	0	3	10	1	<i>FBÖ 706 TEXTBOOK and TEACHING MATERIAL CONST. IN SCI. EDU</i>	3	0	3	10	1
<i>FBÖ 709 PHILOSOPHY OF SCIENCE AND SCIENTIFIC EXPLANATION (NEWLY ADDED)</i>	4	0	4	10	1	<i>FBÖ 708 ELEMENTARY SCIENCE CURRICULUM DEVELOPMENT</i>	3	2	3	10	1
<i>FBÖ 711 INFORMAL LEARNING IN SCIENCE SETTINGS</i>	2	2	3	10	1						
<i>FBÖ 713 INSTRUCT. DESIGN MODELS and THEIR APP. IN SCI. EDU</i>	3	2	3	10	1						
<i>FBÖ 714 CURRENT APPROACHES IN TEACHER EDUCATION AND PROFESSIONAL DEVELOPMENT (NEWLY ADDED)</i>	3	0	3	10	1						
<b>ANY SEMESTER – ELECTIVE COURSES</b>											
<i>FBÖ 712 EDUCATIONAL RESEARCH (NEWLY ADDED)</i>	3	0	3	10	1						
<i>FBÖ 715 NATIONAL AND INTERNATIONAL SCIENCE EDUCATION POLICIES (NEWLY ADDED)</i>	3	2	3	10	1						
<i>FBÖ 710 GLOBALIZATION IN SCIENCE EDUCATION AND MULTICULTURALITY (NEWLY ADDED)</i>	3	2	3	10	1						



**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	285 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 09.04.2015 and with number EKK/2015 – 05 - 04 about making the changes shown in the attachment, in the Graduate and Ph.D programs in Science and Mathematics Teaching, Department of Elementary Education, Institute of Educational Sciences, starting from 2015 – 2016 Academic Year, were approved.*

**Attachment – 1 of the decree of University Curriculum Committee dated 11.06.2015 and with number 916**

**INSTITUTE OF EDUCATIONAL SCIENCES**

**DEPARTMENT OF SCIENCE AND MATHEMATICS FOR SECONDARY EDUCATION**

**GRADUATE PROGRAM**

**DEPARTMENT OF PRIMARY EDUCATION DIVISION OF SCIENCE TEACHING**

**CHANGES TO BE MADE IN THE GRADUATE PROGRAM (WITH THESIS)**

<b>Course Code - Name</b>	<b>Status</b>	<b>Current Version</b>				<b>New Version</b>			
		<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>
<i>FME 637 EXPERIMENTAL METHODS IN BIOLOGY EDUCATION</i>	<i>E</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>8</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<i>FME 639 EXPERIMENTAL METHODS IN CHEMISTRY EDUCATION</i>	<i>E</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>8</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>
<i>FME 641 EXPERIMENTAL METHODS IN PHYSICS EDUCATION</i>	<i>E</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>8</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>

**COURSES WHOSE NAMES WILL BE CHANGED**

<b>OLD NAME</b>	<b>NEW NAME</b>
<i>FME 636 MATHEMATICAL MODELING IN EDUCATION</i>	<i>FME 636 MATHEMATICAL MODELING</i>

**INSTITUTE OF EDUCATIONAL SCIENCES**  
**DEPARTMENT OF SCIENCE AND MATHEMATICS FOR SECONDARY EDUCATION**  
**PH.D PROGRAM**  
**DEPARTMENT OF PRIMARY EDUCATION DIVISION OF SCIENCE TEACHING**  
**CHANGES TO BE MADE IN THE GRADUATE PROGRAM (WITH THESIS)**

<b><i>CURRENT VERSION</i></b>					
<b><i>Course Code - Name</i></b>	<b><i>Status</i></b>	<b><i>T</i></b>	<b><i>P</i></b>	<b><i>C</i></b>	<b><i>ECTS</i></b>
<i>FME 740 TEACHING ALGEBRA</i>	<i>E</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>



**Attachment – 2 of the decree of University Curriculum Committee dated 11.06.2015 and with number 916**

**Table of Curriculum Program**

**Hacettepe University**

**Institute of Educational Sciences**

**Department of Science and Mathematics Teaching for Secondary Education**

**Graduate Program**

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>1st SEMESTER</b>						<b>2nd SEMESTER</b>					
LIST OF COMPULSORY COURSES						LIST OF COMPULSORY COURSES					
COMPULSORY COURSES IN TOTAL						COMPULSORY COURSES IN TOTAL					
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES					
ELECTIVE COURSES IN TOTAL						ELECTIVE COURSES IN TOTAL					
SEMESTER TOTAL						SEMESTER TOTAL					
FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>3rd SEMESTER</b>						<b>4th SEMESTER</b>					
LIST OF COMPULSORY COURSES						LIST OF COMPULSORY COURSES					
FME 600-01 SPECIAL TOPICS						FME 600-02 SPECIAL TOPICS					
COMPULSORY COURSES IN TOTAL						COMPULSORY COURSES IN TOTAL					
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES					
ELECTIVE COURSES IN TOTAL						ELECTIVE COURSES IN TOTAL					
SEMESTER TOTAL						SEMESTER TOTAL					
CREDIT AMOUNT FOR COMPULSORY COURSES											
CREDIT AMOUNT FOR ELECTIVE COURSES											

CREDIT PERCENTAGE FOR COMPULSORY COURSES			7%
CREDIT PERCENTAGE FOR ELECTIVE COURSES			93%

**Table 2**

**Table of ELECTIVE COURSES \***

**Hacettepe University**

**Institute of Educational Sciences**

**Department of Science and Mathematics Teaching for Secondary Education (OFMA)**

**Graduate Program**

<b>Course Code</b>	<b>Course Name</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections</b>
<i>FME 601</i>	<i>ENVIRONMENTAL CHEMISTRY EDUCATION</i>	3	0	3	8	1
<i>FME 602</i>	<i>BASIC TOPICS IN MATHEMATICS EDUCATION</i>	3	0	3	8	1
<i>FME 603</i>	<i>COMPUTER ASSISTED BIOLOGY EDUCATION</i>	2	2	3	8	1
<i>FME 604</i>	<i>ENVIRON. and ENVIRONMENTAL PROTEC. IN SCIENC.EDU.</i>	3	0	3	8	1
<i>FME 605</i>	<i>COMPUTER ASSISTED PHYSICS EDUCATION</i>	2	2	3	8	1

<i>FME 606</i>	<i>USE of STATISTICAL DATA ANALYSIS IN SCIENCE EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 607</i>	<i>COMPUTER ASSISTED CHEMISTRY EDUCATION</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 608</i>	<i>PROBLEM SOLVING STRATEGIES IN MATHEMATICS EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 609</i>	<i>COMPUTER ASSISTED MATHEMATICS EDUCATION</i>	<i>2</i>	<i>2</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 610</i>	<i>INVESTIGATION of THE BIOLOGY EDUCATION LITERATURE</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 611</i>	<i>DEVELOPMENT CURRICULA IN SCIENCE EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 612</i>	<i>INVESTIGATION of THE PHYSICS EDUCATION LITERATURE</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 613</i>	<i>DEVELOPMENT CURRICULA IN MATHEMATICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 614</i>	<i>INVESTIGATION of THE CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>

	<i>EDUCATION LITERATUR</i>					
<i>FME 615</i>	<i>HISTORY and EDUCATION of MATHEMATICAL THINKING</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 616</i>	<i>INVESTIGATION of THE MATHEMATICS EDUCATION LITERAT</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 617</i>	<i>METHODS IN SCIENCE EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 618</i>	<i>TEST CONSTRUCTION IN BIOLOGY EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 619</i>	<i>PREPARATION of SCIENTIFIC PUBLICATIONS IN SCIENCE</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 620</i>	<i>TEST CONSTRUCTION IN PHYSICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 621</i>	<i>LEARN. DIFFI.ENCOUNT. and MISCON.MATH.EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 622</i>	<i>TEST CONSTRUCTION IN CHEMISTRY EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>

<i>FME 624</i>	<i>TEST CONSTRUCTION IN MATHEMATICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 626</i>	<i>MODELS and THE MODEL TEACHING IN PHYSICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 628</i>	<i>CONTEXT-BASED BIOLOGY EDUCATION PRACTICES</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 630</i>	<i>CONTEXT-BASED PHYSICS EDUCATION PRACTICES</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 631</i>	<i>RESEARCH METHODS IN MATHEMATICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 632</i>	<i>CONTEXT-BASED CHEMISTRY EDUCATION PRACTICES</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 633</i>	<i>USING FUZZY LOGIC IN EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 634</i>	<i>IMPROVEMENT of MENTAL SKILLS IN CHEMISTRY EDUCATIO</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 635</i>	<i>ETHICS IN SCIENTIFIC RESEARCH</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>

<i>FME 636</i>	<i>MATHEMATICAL MODELING IN EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 637</i>	<i>EXPERIMENTAL METHODS IN BIOLOGY EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 638</i>	<i>MODELS and MODELLING IN BIOLOGY TEACHING</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 639</i>	<i>EXPERIMENTAL METHODS IN CHEMISTRY EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 640</i>	<i>TEACHING of MATHEMATICAL REASONING and PROOF</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 641</i>	<i>EXPERIMENTAL METHODS IN PHYSICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 642</i>	<i>VISUALIZATION IN MATHEMATICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 643</i>	<i>RESEARCH METHODS IN BIOLOGY EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 644</i>	<i>ELECTIVE TOPICS IN CHEMISTRY</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>

	<i>EDUCATION</i>					
<i>FME 645</i>	<i>RESEARCH METHODS IN PHYSICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 647</i>	<i>RESEARCH METHODS IN CHEMISTRY EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 649</i>	<i>LEAR. DIFF. ENCOUN. and MISCON. IN PHY. EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 651</i>	<i>LEAR. DIFF. ENCOUN. AND MISCON. IN CHEM. EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>
<i>FME 653</i>	<i>LEAR. DIFF. ENCOUN. AND MISCON. IN BIO. EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>8</i>	<i>1</i>

*\*\* Please write only the courses opened with your own code, by your Department.*

**Table 3**  
**Table of COMPULSORY COURSES \***  
**Hacettepe University**  
**Institute of Educational Sciences**  
**Department of Science and Mathematics Teaching for Secondary Education (OFMA)**  
**Graduate Program**

<b>Course Code</b>	<b>Course Name</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections</b>
<i>FME 623</i>	<i>SEMINAR STUDIES IN BIOLOGY EDUCATION</i>	2	2	3	4	1
<i>FME 625</i>	<i>SEMINAR STUDIES IN SCIENCE and MATH. EDUCATION</i>	2	2	3	4	1
<i>FME 627</i>	<i>SEMINAR STUDIES IN CHEMISTRY EDUCATION</i>	2	2	3	4	1
<i>FME 629</i>	<i>SEMINAR STUDIES IN MATHEMATICS EDUCATION</i>	2	2	3	4	1

*\*Only one of the compulsory courses must be taken, depending on the Head's and advisor's opinions.*



**Table - 1**

**Hacettepe University**

**Institute of Educational Sciences**

**Department of Science and Mathematics Teaching for Secondary Education**

**Ph.D Program**

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>1st SEMESTER</b>						<b>2nd SEMESTER</b>					
LIST OF COMPULSORY COURSES						LIST OF COMPULSORY COURSES					
COMPULSORY COURSES IN TOTAL						COMPULSORY COURSES IN TOTAL					
LIST OF ELECTIVE COURSES*						LIST OF ELECTIVE COURSES*					
ELECTIVE COURSES IN TOTAL						ELECTIVE COURSES IN TOTAL					
SEMESTER TOTAL						SEMESTER TOTAL					
0						30					
30						30					
FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	Section	COURSE CODE AND NAME	T	P	C	ECTS	Section
<b>3rd SEMESTER</b>						<b>4th SEMESTER</b>					
LIST OF COMPULSORY COURSES						LIST OF COMPULSORY COURSES					
COMPULSORY COURSES IN TOTAL						FME 799 PREPARATION TO PHD COMPREHENSIVE EXAM					
LIST OF ELECTIVE COURSES						0					
ELECTIVE COURSES IN TOTAL						4					
SEMESTER TOTAL						2					
30.0						30 - 35					
6						30.0					
24						30.0					
30.0						30.0					



CREDIT AMOUNT FOR COMPULSORY COURSES			6
CREDIT AMOUNT FOR ELECTIVE COURSES			84

CREDIT PERCENTAGE FOR COMPULSORY COURSES			7%
CREDIT PERCENTAGE FOR ELECTIVE COURSES			93%

**Table 2**

**Table of ELECTIVE COURSES \***

**Hacettepe University**

**Institute of Educational Sciences**

**Department of Science and Mathematics Teaching for Secondary Education (OFMA)**

**Ph.D Program**

<b>Course Code</b>	<b>Course Name</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections</b>
<i>FME702</i>	<i>FIELD STUDIES IN BIOLOGY EDUCATION</i>	2	2	3	12	1
<i>FME703</i>	<i>EVALUATION of BIOLOGY PROGRAMS</i>	3	0	3	12	1
<i>FME704</i>	<i>COGNITIVE PROCESSES IN MATHEMATICS EDUCATION</i>	3	0	3	12	1
<i>FME705</i>	<i>EVALUATION of PHYSICS PROGRAMS</i>	3	0	3	12	1
<i>FME706</i>	<i>COMPUTER-ASSISTED DATA ANALYSIS</i>	3	0	3	12	1
<i>FME707</i>	<i>EVALUATION of CHEMISTRY PROGRAMS</i>	3	0	3	12	1

FME708	DEVELOPING ATTITUDE SCALES IN SCIENCE and MATH.	3	0	3	12	1
FME709	ENVIRONMENTAL EDUCATION IN BIOLOGY INSTRUCTION	3	0	3	12	1
FME710	HISTORICAL DEVELOPMENT of CHEMISTRY EDUCATION	3	0	3	12	1
FME711	TEST TEC. MEASURE STU.ACH. &BEH.IN SCI.&MATH EDU.	3	0	3	12	1
FME712	AFFECTIVE VARIABLES IN SCIENCE and MATH. EDUCATION	3	0	3	12	1
FME713	QUANTITATIVE RESEARCH METHODS IN BIOLOGY EDUCATI	3	0	3	12	1
FME714	SUBJECT AREA STUDY IN SCIENCE EDUCATION	3	0	3	12	1
FME715	QUANTITATIVE RESEARCH METHODS IN PHYSICS EDUC.	3	0	3	12	1
FME716	THEORY of CONSTRUCTIVIST LEARNING and CHEM. INSTR.	3	0	3	12	1
FME717	QUANTITATIVE RESEARCH METHODS IN CHEMISTRY EDUC.	3	0	3	12	1
FME718	QUALITATIVE RESEARCH METHODS IN BIOLOGY EDUCATION	3	0	3	12	1
FME719	QUANTITATIVE RESEARCH METHODS IN MATHEMATICS EDUC.	3	0	3	12	1
FME720	QUALITATIVE RESEARCH METHODS IN PHYSICS EDU.	3	0	3	12	1
FME721	SELF-DIRECTED LEARNING IN SCIENCE EDUCATION	3	0	3	12	1
FME722	QUALITATIVE RESEARCH METHODS IN CHEMISTRY EDU.	3	0	3	12	1
FME723	PROJECT STUDIES IN BIOLOGY EDUCATION I	3	0	3	12	1
FME724	QUALITATIVE RESEARCH METHODS IN	3	0	3	12	1

	<i>MATHEMATICS EDU.</i>					
<i>FME725</i>	<i>PROJECT STUDIES IN PHYSICS EDUCATION I</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME726</i>	<i>PROJECT STUDIES IN BIOLOGY EDU. II</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME727</i>	<i>PROJECT STUDIES IN CHEMISTRY EDUCATION I</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME728</i>	<i>PROJECT STUDIES IN PHYSICS EDUCATION II</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME729</i>	<i>PROJECT STUDIES IN MATHEMATICS EDUCATION I</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME730</i>	<i>PROJECT STUDIES IN CHEMISTRY EDUCATION II</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME731</i>	<i>IDENTIFYING and CORRECTING MISCON. IN BIOLOGY EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME732</i>	<i>PROJECT STUDIES IN MATHEMATICS EDUCATION II</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME733</i>	<i>IDENTIFYING and CORRECTING MISCON. IN MATH. EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME734</i>	<i>PROCESSES of LEARNING and TEACHING IN BIOLOGY EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME735</i>	<i>APPLIED PROJECT CYCLE MANAG. FOR SCIENCE EDUCATORS</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME736</i>	<i>PROCESSES of LEARNING and TEACHING IN PHYSICS EDU.</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME737</i>	<i>LATEST DEVELOPMENTS IN BIOLOGY EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME738</i>	<i>PROCESSES of LEARNING and TEACHING IN CHEMISTRY ED</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME739</i>	<i>CURRENT TOPICS IN PHYSICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME741</i>	<i>CURRENT TOPICS IN CHEMISTRY EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>
<i>FME743</i>	<i>CURRENT TOPICS IN MATHEMATICS EDUCATION</i>	<i>3</i>	<i>0</i>	<i>3</i>	<i>12</i>	<i>1</i>

FME745	THEORIES of LEARNING IN SCIENCE EDUCATION	3	0	3	12	1
FME747	THEORIES of LEARNING IN MATHEMATICS EDUCATION	3	0	3	12	1
FME749	IDENTIFYING and CORRECTING MIS. IN PHYSICS EDU.	3	0	3	12	1
FME751	IDENTIFYING and CORRECTING MIS. IN CHEMISTRY EDU.	3	0	3	12	1

*\*\* Please write only the courses opened with your own code, by your Department.*

**Table 3**

**Table of COMPULSORY COURSES \***

**Hacettepe University**

**Institute of Educational Sciences**

**Department of Science and Mathematics Teaching for Secondary Education (OFMA)**

**Ph.D Program**

<b>Course Code</b>	<b>Course Name</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>	<b>Number of Sections</b>
FME 753	PHD SEMINAR IN BIOLOGY EDUCATION	2	2	3	6	1
FME 755	PHD SEMINAR IN PHYSICS EDUCATION	2	2	3	6	1
FME 757	PHD SEMINAR IN CHEMISTRY EDUCATION	2	2	3	6	1
FME 759	PHD SEMINAR IN MATHEMATICS EDUCATION	2	2	3	6	1

*\*Only one of the compulsory courses must be taken, depending on the Head's and advisor's opinions.*



**HACETTEPE UNIVERSITY**  
**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	286 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 27.03.2015 and with number 03 of 2015 about opening 5 (five) new elective courses as shown below, in the Graduate Programs with Thesis and without Thesis, and Ph.D programs in Computer Animation and Game Technologies, Department of Computer Graphics, Institute of Cognitive Sciences, starting from 2015 – 2016 Academic Year, were approved.*

<b>ELECTIVE COURSES TO BE OPENED IN THE GRADUATE PROGRAMS (WITH AND WITHOUT THESIS) OF COMPUTER ANIMATION AND GAME TECHNOLOGIES, DEPARTMENT OF COMPUTER GRAPHICS</b>				
<b>Course Code - Name</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>ECTS</b>
BCA 612 DATA STRUCTURES IN COMPUTER GAMES	3	0	3	7.5
BCO 605 MOBILE GAME DEVELOPMENT	3	0	3	6
BCO 606 GAME DEVELOPMENT WITH THE UNREAL MOTOR	3	0	3	6
BCO 681 ANALYSIS OF VIDEO GAMES	3	0	3	6
BCO 611 COMPUTER ANIMATION AND PHYSICS IN GAME TECHNOLOGIES	3	0	3	6



**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	287 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 27.03.2015 and with number 4 of 2015 about changing the name of the course “**BCA 611 Computer Graphics (3 0 3 / 7,5 ECTS)**” to “**BCA 611 3D Graphics for Video Games (3 0 3 / 7,5 ECTS)**” in the Graduate Programs with Thesis and without Thesis, and Ph.D programs in Computer Animation and Game Technologies, Department of Computer Graphics, Institute of Cognitive Sciences, starting from 2015 – 2016 Academic Year, were approved.*





**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	288 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 27.03.2015 and with number 01 of 2015 about opening the elective course “**BBS 680 New Generation Defense Information Systems I (3 0 3 / 6 ECTS)**” in the Evening Education Graduate Program without Thesis in Cognitive Systems, Institute of Cognitive Sciences, starting from 2015 – 2016 Academic Year, were approved.*



**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	289 OF 2015

*The decree of University Curriculum Committee, along with the decree of Institute Board dated 27.03.2015 and with number 02 of 2015 about adding the course “**VBM 648 Software Confirming, Validation and Test Management (3 0 3 / 6 ECTS)**” to the elective course list, in the Graduate Program without Thesis in Software Engineering, Institute of Cognitive Sciences, starting from 2015 – 2016 Academic Year, were approved.*



**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	290 OF 2015

*The article below was unanimously approved to be added after the article no 12 in “**Regulations on the Rules for the Trophies, Prizes and Prizing, to be given by Hacettepe University to Undergraduate Students**”.*

**“ADDITIONAL ARTICLE 1 – (1) “Hacettepe University Senate Special Prize”** is given with the Senate decision to the almost graduate students who either have been extraordinarily successful in extra-curricular activities as well as in courses throughout the time they were students, or who have been extraordinarily successful academically, despite the hard conditions they have been in. The names of the candidates for the Senate Special Prize are offered by the Senate Members to the President’s Office.



**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	291 OF 2015

*The decrees of Faculty Board of Directors dated 09.06.2015, 23.06.2015 with numbers 2015 – 615, 2015 – 684 about the assignment of **Prof. Dr. İbrahim Cilga**, who is a retired professor, to the **Department of Social Work, Faculty of Economics & Administrative Sciences** in our University for the 2015 – 2016 Academic Year Fall Semester, to give **12 hours of classes a week, by getting paid per hour**, in accordance with the article no 31 of Higher Education Council Law no 2547, were approved.*



**HACETTEPE UNIVERSITY**

**ANKARA**

**DECREES OF THE SENATE**

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
17.06.2015	26	292 OF 2015

**Gamze Kılıç**, a senior student with Student ID number 21049419, who studies at Department of German Language and Literature, Faculty of Letters, and **Kübra Aydın**, a senior student with Student ID number 21174949, who studies at Department of Ceramics, Faculty of Fine Arts, were unanimously approved to be awarded with the “**Hacettepe University Senate Special Prize**” for the extraordinary success they have achieved despite the hard conditions they have been in.