



HACETTEPE UNIVERSITY

ANKARA

DECREES OF THE SENATE

SESSION DATE

SESSION NUMBER

DECREE NUMBER

08.10.2014

39

331 OF 2014

An informative presentation was given about Erasmus Program by Dr. Bugay Turhan.



HACETTEPE UNIVERSITY

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DECREES OF THE SENATE

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
08.10.2014	39	332 OF 2014

With the decree of Institute Committee dated 12.09.2014 and with number 25 of 2014 about offering “**BİK 654 Clinical Biochemistry Laboratory Applications (2 4 4 / 10 ECTS)**” as an elective course in the Faculty of Health Sciences, Master program of Biochemistry, beginning from Spring term of 2014-2015 academic year, the decree of the University Curriculum Committee was approved.



HACETTEPE UNIVERSITY

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DECREES OF THE SENATE

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
08.10.2014	39	332 OF 2014

With the decree of Institute Committee dated 12.09.2014 and with number 24 of 2014 about offering 15 elective courses stated in the attachment in **English** in the Institute of Health Sciences, Master and doctoral Program of Department of Radiopharmacy, beginning from Spring term of 2014-2015 academic year, the decree of the University Curriculum Committee was approved

Attachment of the decree of Curriculum Committee dated 02.10.2014 with number 675-1

OFFERING ENGLISH COURSES FOR THE MASTER AND DOCTORAL PROGRAM OF RADIOPHARMACY						
CODE	NAME	T	P	C	ECTS	M/E
ERF623	Good Radiopharmacy Practice (Grp)	3	0	3	8	E
ERF624	Gamma Radiation Sterilization	3	0	3	8	E
ERF625	Radiation Physics and Chemistry	2	0	2	7	E
ERF626	Radiation Hygiene (Radiation Protection)	3	0	3	8	E
ERF627	Quality Control of Radiopharmaceuticals	3	0	3	8	E
ERF628	Radiopharmaceuticals	2	0	2	7	E
ERF629	Applied Liposome Technology	3	0	3	8	E
ERF721	Seminar	2	2	3	12	E
ERF722	Radioactive Tracers Used in Radiopharmacy	2	0	2	8	E
ERF723	Basics of Radiopharmacy	3	0	3	10	E
ERF726	Radiopharmacology	3	0	3	10	E
ERF728	Effects Of Radiation on Pharmaceuticals	2	0	2	8	E
ERF729	New Developments on Radiophar. and Drug Deli.Sys.	2	0	2	8	E
ERF730	Hospital Application of Radiopharmaceuticals	2	4	4	10	E
ERF731	Medical Devices, Medical Gases And Radiopharmacy	3	0	3	10	E

Attachment of the decree of Curriculum Committee dated 02.10.2014 with number 675-2

Table 1 TABLE OF CURRICULUM Hacettepe University Institute / Faculty / School / Vocational School Of Health Sciences Department Of Radiopharmacy Master Program Of Radiopharmacy (with thesis*)											
FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS **	COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS **
1ST TERM						2ND TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					
BIS 605 Biostatistics	3	0	3	7		ERF 662 Literature Survey and Literature Eva in Radiopharmacy	3	0	3	8	1
ERF 681 Introduction to Radiopharmacy	3	0	3	8	1		2	2	3	8	3
MUST COURSES TOTAL	6	0	6	15		MUST COURSES TOTAL	5	2	6	16	
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES (***)					
ERF 603 Good Radiopharmacy Practice (Grp)	3	0	3	8	1						
ERF 604 Gamma Radiation Sterilization	3		3	8	1						
ERF 607 Radiation Physics and Chemistry	2		2	7	1						
ERF 609 Radiation Hygiene (Radiation Protection)	3		3	8	1						
ERF 610 Quality Control of Radiopharmaceuticals	3		3	8	1						
ERF 611 Radiopharmaceuticals	2		2	7	1						
ERF 682 Applied Liposome Technology	3		3	8	1						
ERF 623 Good Radiopharmacy Practice (Grp)	3	0	3	8							
ERF 624 Gamma Radiation Sterilization	3	0	3	8							
ERF 625 Radiation Physics and Chemistry	2	0	2	7							
ERF 626 Radiation Hygiene (Radiation Protection)	3	0	3	8							
ERF 627 Quality Control of Radiopharmaceuticals	3	0	3	8							

ERF 628 Radiopharmaceuticals	2	0	2	7							
ERF 629 Applied Liposome Technology	3	0	3	8							
ELECTIVE COURSES TOTAL				15		ELECTIVE COURSES TOTAL				14	
TERM TOTAL				30		TERM TOTAL				30	
3RD TERM						4TH TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					
ERF 600 Special Topics	4	0	0	30	3	ERF 600 Special Topics	4	0	0	30	3
MUST COURSES TOTAL				30		MUST COURSES TOTAL				30	
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES					
ELECTIVE COURSES TOTAL						ELECTIVE COURSES TOTAL					
TERM TOTAL				30		TERM TOTAL				30	
5TH TERM						6TH TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					
MUST COURSES TOTAL						MUST COURSES TOTAL					
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES					
ELECTIVE COURSES TOTAL						ELECTIVE COURSES TOTAL					
TERM TOTAL						TERM TOTAL					
7TH TERM						8TH TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					

Table 1
TABLE OF CURRICULUM
Hacettepe University
Institute / Faculty / School / Vocational School Of Health Sciences
Department Of Radiopharmacy
Doctoral Program Of Radiopharmacy *

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS **	COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS **
1ST TERM						2ND TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					
ERF 705 Localization and Transportation Mec. of Radiopharmacy	3	0	3	10	1						
MUST COURSES TOTAL	3	0	3	10		MUST COURSES TOTAL				0	
LIST OF ELECTIVE COURSES (***)						LIST OF ELECTIVE COURSES (***)					
ERF 701 Seminar	2	2	3	12	3						
ERF 702 Radioactive Tracers Used in Radiopharmacy	2	0	2	8	1						
ERF 703 Basics of Radiopharmacy	3	0	3	10	1						
ERF 706 Radiopharmacology	3	0	3	10	1						
ERF 708 Radiation Effects on Pharmaceuticals	2	0	2	8	1						
ERF 771 New Developments on Radiopharm and Drug Del. Sys.	2	0	2	8	1						
ERF 772 Hospital Application of Radiopharmaceuticals	2	4	4	10	1						
ERF 773 Medical Devices, Medical Gases, Radiopharmaceutic.	3	0	3	10	1						
ERF 721 Seminar	2	2	3	12							
ERF 722 Radioactive Tracers Used in Radiopharmacy	2	0	2	8							
ERF 723 Basics of Radiopharmacy	3	0	3	10							
ERF 726 Radiopharmacology	3	0	3	10							
ERF 728 Effects of Radiation on Pharmaceuticals	2	0	2	8							
ERF 729 New Developments on Radiophar. and Drug Deli.Sys.	2	0	2	8							
ERF 730 Hospital Application of Radiopharmaceuticals	2	4	4	10							
ERF 731 Medical Devices, Medical	3	0	3	10							

ERF 700 Special Topics (Thesis)-III	5	0	0	30	3	ERF 700 Special Topics (Thesis)-IV	5	0	0	30	3
MUST COURSES TOTAL						MUST COURSES TOTAL					
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES					
ELECTIVE COURSES TOTAL				0		ELECTIVE COURSES TOTAL				0	
TERM TOTAL				30		TERM TOTAL				30	
FINAL TOTAL										240	
NUMBER OF MUST COURSES CREDITS										52	
NUMBR OF ELECTIVE COURSE CREDITS										68	
PERCENTAGE OF MUST COURSE CREDITS										43%	
PERCENTAGE OF ELECTIVE COURSE CREDITS										57%	

* Common must courses (AIT, TDK, ING, BEB) should also be in the list.

** State just the number of the sections of the courses that you offer with your code.

*** Elective courses can be taken in any of the terms (1st , 2nd , 3rd term).

Percentage of Must and Elective courses was calculated on 120 ECTS.
ECTS of Special Topics was not counted.



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DECREES OF THE SENATE

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
08.10.2014	39	334 OF 2014

With the decree of Institute of Health Sciences Committee dated 12.09.2014 and with number 27 of 2014 and Institute of Public Health Committee about **making changes in must/elective courses** that take place in Institute of Public Health, Department of Public Health, Doctoral Program of Public Health and Master Program of Health Management in Disasters which is a part of Institute of Health Sciences, beginning form Spring term of 2014-2015 academic year, the decree of the University Curriculum Committee was approved.

Attachment of the decree of Curriculum Committee dated 02.10.2014 with number 676-1

**CHANGES OF MUST-ELECTIVE COURSES ON
DEPARTMENT OF PUBLIC HEALTH, DOCTORAL PROGRAM OF PUBLIC HEALTH**

CODE	NAME	T	P	C	ECTS	PRESENT	OFFERED
HEP704	Advanced Epidemiology	3	0	3	6	MUST	ELECTIVE
HEP721	Risks and Coping Skills in School-Aged Children	3	0	3	6	-	MUST

**CHANGES OF MUST-ELECTIVE COURSES ON
DEPARTMENT OF PUBLIC HEALTH, MASTER PROGRAM OF HEALTH MANAGEMENT IN DISASTERS**

CODE	NAME	T	P	C	ECTS	PRESENT	OFFERED
HAY602	Basic Principles and Methods of Epidemiology	2	0	2	4	MUST	ELECTIVE

Attachment of the decree of Curriculum Committee dated 02.10.2014 with number 676-2

Hacettepe University INSTITUTE OF PUBLIC HEALTH, DEPARTMENT OF PUBLIC HEALTH MASTER PROGRAM OF HEALTH MANAGEMENT IN DISASTERS											
FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS **	COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS **
1ST TERM						2ND TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					
HAY 611 DISASTER MANAGEMENT AND PLANNING IN HEALTH SYSTEMS	2	2	3	6		HAY 602 HEALTH MANAGEMENT IN PUBLIC HEALTH (transferred from must courses list to elective courses list)	2	0	2	4	
HSP 601 BASIC PUBLIC HEALTH	3	0	3	6		HAY 612 BASIC DISASTER EPIDEMIOLOGY	2	0	2	4	
HEP 602 BASIC PRINCIPLES AND METHODS OF EPIDEMIOLOGY	2	2	3	5		HAY 613 RISK COMMUNICATION	2	0	2	4	
BIS 605 BIostatISTICS	3	0	3	7		HAY 601 SEMINAR	2	2	3	5	3
MUST COURSES TOTAL	10	4	12	24		MUST COURSES TOTAL	6	2	7	13	
						HAY 602 HEALTH MANAGEMENT IN PUBLIC HEALTH (transferred from must courses list to elective courses list)	2	0	2	4	
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES					
HAY 603 INTRODUCTION TO DISASTER MEDICINE	2	0	2	4		HAY 610 DISASTERS AND EMERGENCIES IN OCCUPATIONAL HEALTH	2	0	2	4	
HAY 604 CHILD AND ADOLESCENT HEALTH IN DISASTERS	2	0	2	4	1	HAY 614 HOSPITAL INCIDENT COMMAND SYSTEM IN DISASTER	1	2	2	3	
HAY 606 INFANT AND CHILD NUTRITION IN DISASTER AND EMERGENCY	2	0	2	4		EMI 631 MANAGEMENT OF PHARMACY SERVICES IN DISASTERS	1	0	1	6	
HAY 607 DISASTER HEALTH LEGISLATION	2	0	2	4		HCR 603 FIRST AID AND CARE IN DISASTERS	2	3	3	8	
HAY 608 REPRODUCTIVE HEALTH SERVICES IN DISASTERS AND CRIS	3	0	3	4		REH 671 PHYSOTHERAPY IN DISASTERS AND REHABILITATION	3	0	3	6	
HAY 609 DISASTER EPIDEMIOLOGY	2	0	2	4		HSE 604 HEALTH EDUCATION AND HEALTH PROMOTION	2	0	2	4	

HBG 604 COMMUNITY NUTRITION	2	0	2	4		ISG 601 OCCUPATIONAL HEALTH AND SAFETY	3	0	3	4	
HCH 606 INTRODUCTION TO ENVIRONMENTAL HEALTH	1	0	1	3		HSY 602 PRINCIPLES OF HEALTH ADMINISTRATION	3	0	3	6	
HEP 603 RESEARCH PLANNING AND IMPLEMENTATION IN EPIDEMIOLOGY	3	0	3	6		HSP 612 INTRODUCTION TO INTERNATIONAL HEALTH	1	0	1	2	
HEP 604 EPIDEMIOLOGIC METHODS	3	0	3	6							
ELECTIVE COURSES TOTAL				6		ELECTIVE COURSES TOTAL				17	
TERM TOTAL	5	5		30	SSS	TERM TOTAL	5	5		30	SSS
3RD TERM						4TH TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					
HAY 600-01 SPECIAL TOPICS	4	0	0	30	3	HAY 600-02 SPECIAL TOPICS	4	0	0	30	3
MUST COURSES TOTAL	4	0	0	30		MUST COURSES TOTAL	4	0	0	30	
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES					
ELECTIVE COURSES TOTAL						ELECTIVE COURSES TOTAL					
TERM TOTAL				30		TERM TOTAL				30	
FINAL TOTAL										120	
NUMBER OF MUST COURSES CREDITS										37	
NUMBR OF ELECTIVE COURSE CREDITS										23	
PERCENTAGE OF MUST COURSE CREDITS										61.6	
PERCENTAGE OF ELECTIVE COURSE CREDITS										38.4	

* Common must courses (AIT, TDK, ING, BEB) should also be in the list.

** State just the number of the sections of the courses that you offer with your code.

Hacettepe University
INSTITUTE OF PUBLIC HEALTH, DEPARTMENT OF PUBLIC HEALTH
DOCTORAL PROGRAM OF PUBLIC HEALTH

FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS **	COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS **
1ST TERM						2ND TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					
HSP 701 Conceptual Approach to Public Health	2	0	2	4	1	HSY 703 Health Service Planning	3	0	3	6	
HEP 704 Advanced Epidemiology (transferred from must course list to elective course list)	3	0	3	6		HSP 705 Seminar	2	2	3	5	6
HSP 721 Advanced Approaches to Epidemiology	3	0	3	6							
MUST COURSES TOTAL	5	0	5	10							
						MUST COURSES TOTAL	5	2	6	11	
LIST OF ELECTIVE COURSES						LIST OF ELECTIVE COURSES					
HSP 704 Advanced Epidemiology * (transferred from must course list to elective course list)	3	0	3	6							
HSP 702 Environmental Health	2	0	2	5	1	HSP 714 Tourism Health and Medicine	2	0	2	4	1
HSP 703 Research in Women's Health/Reproductive Health and Family Planning	2	0	2	6		HSP 715 COST Analysis in Primary Health Care	2	0	2	4	1
HSP 704 Research in Child Health	2	0	2	4	1	HSP 717 Management and Control of Tobacco And Alcohol Dependence	2	0	2	5	1
HSP 706 Ecology	1	0	1	3	1	HSP 718 Developments in Health Economics	2	0	2	4	1
HSP 707 Principals of Routine Immunization	2	0	2	4	1	HSP 719 Seminar	2	2	3	5	6
HSP 708 Social Medicine	2	0	2	4	1	HSP 720 Developments in International Health	2	0	2	4	1
HSP 709 Surveillance and Early Warning System in Communication	2	0	2	4	1	HSP 721 Risks and Coping Skills in School-Aged Children	2	0	2	5	1
HSP 710 Health Economics	2	0	2	5	1	HSP 722 School Health	2	0	2	4	1
HSP 711 Occupational Health and	3	0	3	4	1	HSP 723 Health Promotion and	2	0	2	5	1

Safety						Prevention of Adolescents					
HSP 712 Preventive Approach on Health of Adult and Old People	3	0	3	6	1	HSP 724 Youth Health from Public Health Perspective	1	0	1	2	1
HSP 713 The Features of Prominent Infectious Diseases in Public Health	3	0	3	4	1	HSP 725 Methods of Economic Evaluation In Public Health Programs	2	0	2	4	1
HSP 726 Prevention of Sports Injuries	3	0	3	5		HSP 726 Prevention of Sports Injuries	3	0	3	5	
HSP 727 Cancer Control Programs and Public Health	2	0	2	4		HSP 727 Cancer Control Programs and Public Health	2	0	2	4	
HSP 728 Chronic Kidney Disease Early Diagnosis, Prevention	2	0	2	4		HSP 728 Chronic Kidney Disease Early Diagnosis, Prevention	2	0	2	4	
HSP 729 Child Rights and Child Health	3	0	3	5		HSP 729 Child Rights and Child Health	3	0	3	5	
HSY 701 Implementation of Community Oriented Primary Care	3	0	3	6		HEP 711 Epidemiology of Nutrition	2	0	2	4	
HSY 702 Health Manpower Planning	3	0	3	6		HEP 714 Epidemiological Discussions in Public Health	2	0	2	4	
HSY 704 Seminar	2	2	3	5		HSE 703 Tobacco Control for Health Promotion	2	0	2	4	
HEP 703 Practice of Advanced Epidemiological Methods	2	0	2	6		HES 704 Health Promotion and Aging	2	0	2	4	
HEP 705 Epidemiology of Injury and Disability	2	0	2	4		HSE 705 Health Promotion among Vulnerable Groups	2	0	2	3	
HEP 707 Chronic Diseases Epidemiology	3	0	3	6		BIS 710 Medical Decision Making	2	0	2	4	
HEP 708 Cancer Epidemiology	2	0	2	4		BIS 730 Time Series Analysis	2	0	2	4	
HEP 710 Basic Principles and Methods of Pharmacoepidemiology	3	0	3	5		BIS 737 Advanced Stat. Methods Specific to Health Sciences	2	0	2	4	
HSP 730 Health Project Management	3	0	3	5		BIS 757 Multivariate Statistical Methods II	2	0	2	4	
ELECTIVE COURSES TOTAL				20		ELECTIVE COURSES TOTAL				19	
TERM TOTAL				30		TERM TOTAL				30	
3RD TERM						4TH TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					

						YET 790 Preparation for Doctoral Proficiency Exam	0	4	2	30	
MUST COURSES TOTAL						MUST COURSES TOTAL				30	

LIST OF ELECTIVE COURSES											
HSP 702 Environmental Health	2	0	2	5	1						
HSP 703 Research in Women's Health/Reproductive Health and Family Planning	2	0	2	6							
HSP 704 Research in Child Health	2	0	2	4	1						
HSP 706 Ecology	1	0	1	3	1						
HSP 707 Principals of Routine Immunization	2	0	2	4	1						
HSP 708 Social Medicine	2	0	2	4	1						
HSP 709 Surveillance and Early Warning System in Communication	2	0	2	4	1						
HSP 710 Health Economics	2	0	2	5	1						
HSP 711 Occupational Health and Safety	3	0	3	4	1						
HSP 712 Preventive Approach on Health of Adult and Old People	3	0	3	6	1						
HSP 713 The Features of Prominent Infectious Diseases in Public Health	3	0	3	4	1						
HSP 726 Prevention of Sports Injuries	3	0	3	5							
HSP 727 Cancer Control Programs and Public Health	2	0	2	4							
HSP 728 Chronic Kidney Disease Early Diagnosis, Prevention	2	0	2	4							
HSP 729 Child Rights and Child Health	3	0	3	5							
HSP 714 Tourism Health and Medicine	2	0	2	4	1						
HSP 715 COST Analysis in Primary Health Care	2	0	2	4	1						
HSP 717 Management and Control of Tobacco And Alcohol Dependence	2	0	2	5	1						
HSP 718 Developments in Health Economics	2	0	2	4	1						

NUMBR OF ELECTIVE COURSE CREDITS										69	
PERCENTAGE OF MUST COURSE CREDITS										23.3	
PERCENTAGE OF ELECTIVE COURSE CREDITS										76.6	

* Common must courses (AIT, TDK, ING, BEB) should also be in the list.

** State just the number of the sections of the courses that you offer with your code.



HACETTEPE UNIVERSITY

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DECREES OF THE SENATE

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
08.10.2014	39	335 OF 2014

With the decree of Faculty Committee dated 30.09.2014 and with number 1 of 2014 about offering Minor Programs, as it was stated in the attachment, between Faculty of Engineering, Industrial Engineering Program and Food Engineering Program, beginning from 2014-2015 academic year, the decree of the University Curriculum Committee was approved

Attachment of the decree of Curriculum Committee dated 02.10.2014 with number 677-1

**MINOR PROGRAM THAT WILL BE OFFERED FOR INDUSTRIAL ENGINEERING PROGRAM
BY FOOD ENGINEERING**

For the Minor program that will be offered by Food Engineering:

Students of Faculty of Engineering Industrial Engineering Program can apply.

Students of Faculty of Engineering Industrial Engineering Program will take

		<u>ECTS</u>
GMÜ 201 Food Chemistry I	(3 0 3)	5
GMÜ 235 Material and Energy Balances	(4 0 4)	5
GMÜ 311 Unit Operations I	(3 0 3)	5

as **must courses** and will take at least 9 elective course credit between the **elective courses** below.

Elective courses:

	<u>T P C</u>	<u>ECTS</u>
GMÜ 215 General Microbiology	(3 0 3)	5
GMÜ 248 Food Microbiology	(3 0 3)	5
GMÜ 310 Food Technology I	(3 0 3)	5
GMÜ 340 The Basic Principles of Food Safety	(3 0 3)	5
GMÜ 427 Food Technology II	(3 0 3)	5
GMÜ 474 Quality Management in Food Industry	(3 0 3)	5
GMÜ 455 Quality Control in Legislation	(3 0 3)	5
GMÜ 468 Process Control in Food Engineering	(3 0 3)	5

This program is applied according to the rules of Hacettepe University Minor Program Directives.

Attachment of the decree of Curriculum Committee dated 02.10.2014 with number 677-2

**HACETTEPE UNIVERSITY
FACULTY OF ENGINEERING
OFFER OF MINOR PROGRAM OF INDUSTRIAL ENGINEERING
(FOR UNDERGRADUATE STUDENTS OF FOOD ENGINEERING)**

With the Industrial Engineering Minor program which was offered to be opened beginning from Spring term of 2014-2015 academic year, starting today's competitive market conditions equipped and one step ahead is aimed by improving knowledge and abilities of students, who are successful in undergraduate program of Food Engineering, in industrial engineering field

Conducting Minor Program:

- Student applications will be evaluated by Coordinator of Industrial Engineering Minor Program who will be assigned by Director of Industrial Engineering Program and students who were accepted will be consulted.
- For each application term, 2 quotas will be allocated to Industrial Engineering Minor Program which will be offered for undergraduate students of Food Engineering.
- Agreement of Academic Committees of relevant departments will be necessary for change of quota, when it is necessary.
- Application to, acceptance to, registration for Industrial Engineering Minor Program and other detailed information related to the program will be carried out according to the related articles of Hacettepe University Minor Program Directives.

Industrial Engineering Minor Program

In order to finish Industrial Engineering Minor Program successfully, at least 6 courses, which comprise 3 must and 3 elective courses, and which will be taken by the approval of coordinator of Industrial Engineering Minor Program must be completed successfully. Medium of instruction of the courses that take place in Industrial Engineering Minor Program is English. General framework of Industrial Engineering Minor Program is presented in Table 1. Elective courses of Industrial Engineering Minor Program are presented in Table 2. Elective course can be chosen between the courses that are in Table 2 or that meet the prerequisites stated in Undergraduate Program of Industrial Engineering.

Table 1. Industrial Engineering Minor program

Course Code	Course Name	T-P-C	ECTS
EMÜ221	Introduction to Optimization and Modeling	3-0-3	5
EMÜ231	Probability Statistics for Engineers I	3-0-3	5
EMÜ341	Production Planning and Control I	3-0-3	5

EMÜXXX	Elective Course I	3-0-3	
EMÜXXX	Elective Course II	3-0-3	
EMÜXXX	Elective Course III	3-0-3	
TOTAL		18 (C)	

Table 2. Elective Course List for Industrial Engineering Minor program

Course Code	Course Name	T-P-C	ECTS
EMÜ 222	Deterministic Operations Research	3-0-3	5
EMÜ 232	Probability and Statistics for Engineers II	3-0-3	5
EMÜ 342	Work Analysis and Design	3-0-3	5
EMÜ 312	Database Management Systems	3-0-3	4
EMÜ 322	Simulation Modeling and Analysis	2-2-3	5
EMÜ 324	Applied Operations Research	3-0-3	6
EMÜ 331	Statistical Quality Control	3-0-3	5
EMÜ 332	Quality Management	3-0-3	6
EMÜ 334	Introduction to Regression Analysis	3-0-3	6
EMÜ 342	Production Planning and Control II	3-0-3	5
EMÜ 344	Facility Location and Layout	3-0-3	6
EMÜ 346	Ergonomics	3-0-3	6
EMÜ 363	Engineering Economy	3-0-3	4
EMÜ 411	Management Information Systems	3-0-3	6
EMÜ 413	Decision Support Systems	3-0-3	6
EMÜ 421	Multicriteria Decision Making	3-0-3	6
EMÜ 423	Network Flow Analysis	3-0-3	6
EMÜ 424	Decision Analysis	3-0-3	6
EMÜ 425	Engineering Optimization	3-0-3	6

EMÜ 431	Design of Engineering Experiments	3-0-3	6
EMÜ 432	Introduction to Data Mining	3-0-3	6
EMÜ 434	Reliability Analysis	3-0-3	6
EMÜ 435	Quality Engineering in Product and Process Design	3-0-3	6
EMÜ 43	Time Series Analysis and Forecasting	3-0-3	6
EMÜ 441	Inventory Planning and Control	3-0-3	6
EMÜ 443	Revenue Management	3-0-3	6
EMÜ 444	Scheduling and Sequencing	3-0-3	6
EMÜ 446	Supply Chain Management	3-0-3	6
EMÜ 464	Project Management	3-0-3	4



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<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
08.10.2014	39	336 OF 2014

With the decree of Faculty Committee dated 30.09.2014 and with number 1 of 2014 about making changes in curriculum table of Faculty of Engineering, Undergraduate Program of Environmental Engineering, beginning from Fall term of 2014-2014 academic year, the decree of the University Curriculum Committee was approved.

Attachment of the decree of Curriculum Committee dated 02.10.2014 with number 677-1

**Changed made in the courses that take place in
Undergraduate Program of Environmental Engineering and their reasons**

1. CEV 101 Introduction to Environmental Engineering: Workload of the course is examined, and ECTS credits are increased from 3 to 5. Therefore, Workload and ECTS Calculation in the course information catalog is changed.
2. CEV 102 Environmental Chemistry I: Workload of the course is examined, and ECTS credits are decreased from 6 to 4. Therefore, Workload and ECTS Calculation in the course information catalog is changed.

**Changes Made in the Curriculum Table of Undergraduate Program of Environmental
Engineering and Their Reasons**

1. KİM 109 Chemistry I: 6 ECTS credit which was written mistakenly is corrected as 5.
2. KİM 119 Chemistry Laboratory I: 3 ECTS credit which was written mistakenly is corrected as 2.
3. FİZ 117 General Physics Laboratory I: 3 ECTS credit which was written mistakenly is corrected as 2.
4. CEV 101 Introduction to Environmental Engineering: 3 ECTS credit was changes as 5. The reason was stated above.
5. CEV 102 Environmental Chemistry I: 6 ECTS credit was changes as 4. The reason was stated above.
6. A course with 3 ECTS was added as non-departmental elective course since ECTS credits of second term courses CEV 102 and FİZ 117 was changed.
7. CEV 306 Unit Operations: Practice hour which was written mistakenly as 0 was changed as 2.
8. CEV 401 Behavior and Transport of Pollutants: Practice hour which was written mistakenly as 2 was changed as 0.

Attachment of the decree of Curriculum Committee dated 02.10.2014 with number 677-2

Table 1 CURRICULUM TABLE HACETTEPE UNIVERSITY FACULTY OF ENGINEERING GRADUATE PROGRAM OF ENVIRONMENTAL ENGINEERING *											
FALL						SPRING					
COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS	COURSE CODE AND NAME	T	P	C	ECTS	NUMBER OF SECTIONS
1ST TERM						2ND TERM					
MAT 123 MATHEMATICS I	4	2	5	6		MAT 124 MATHEMATICS II	4	2	5	6	
FİZ 137 PHYSICS I	4	0	4	5		FİZ 138 PHYSICS II	4	0	4	5	
CEV 101 INTRODUCTION TO ENVIRONMENTAL ENGINEERING	3	0	3	3	1	FİZ 117 GENERAL PHYSICS LAB.	0	3	1	3	
	3	0	3	5	1		0	3	1	2	
KİM 109 CHEMISTRY I	4	0	4	6		CEV 102 ENVIRONMENTAL CHEMISTRY I	3	0	3	6	1
	4	0	4	5			3	0	3	4	1
KİM 119 CHEMISTRY LAB. I	0	3	1	3		CEV 104 COMPUTER PROGRAMMING	2	2	3	5	1
	0	3	1	2							
İNG 111 – INTEGRATED SKILLS I	3	0	3	3		İNG 112 – INTEGRATED SKILLS II	3	0	3	3	
TKD 103 – TURKISH LANGUAGE I	2	0	2	2		TKD 104 – TURKISH LANGUAGE II	2	0	2	2	
BEB 650 – BASIC INFORMATION AND COMMUNICATION TECHNOLOGY	0	2	1	2		MUST COURSES TOTAL	17	6	20	30	
						NON-DEPARTMENTAL ELECTIVE COURSE	2	0	2	3	
MUST COURSES TOTAL	20	7	23	30		ELECTIVE COURSES TOTAL	2	0	2	3	
TERM TOTAL			23	30		TERM TOTAL			23	30	
3RD TERM						4TH TERM					
MAT 235 ENGINEERING MATHEMATICS I	4	0	4	5		CEV 202 COMPUTER AIDED DRAWING	2	2	3	5	1
CEV 201 ENGINEERING MECHANICS	3	0	3	4	1	CEV 204 FLUID MECHANICS	3	0	3	5	1
CEV 203 MATERIAL SCIENCE	3	0	3	4	1	CEV 206 NUMERICAL ANALYSIS	3	0	3	5	1

CEV 205 ENVIRONMENTAL CHEMISTRY II	3	0	3	4	1	CEV 208 ENVIRONMENTAL STATISTICS	3	0	3	4	1
CEV 207 ENVIRONMENTAL CHEMISTRY LABORATORY	0	3	1	2	1	CEV 210 ENVIRONMENTAL MICROBIOLOGY	3	0	3	4	1
CEV 209 ENGINEERING THERMODYNAMICS	3	0	3	6	1	CEV 212 ENVIRONMENTAL MICROBIOLOGY LABORATORY	0	3	1	2	1
AİT 203 - Atatürk's Prin. & A His. of His Ref. I	2	0	2	2		AİT 204 - Atatürk's Prin. & A His. of His Ref. II	2	0	2	2	
MUST COURSES TOTAL	18	3	19	27		MUST COURSES TOTAL	20	0	20	30	
NON-DEPARTMENTAL ELECTIVE COURSE	2	0	2	3		NON-DEPARTMENTAL ELECTIVE COURSE	2	0	2	3	
ELECTIVE COURSES TOTAL	2	0	2	3		ELECTIVE COURSES TOTAL	2	0	2	3	
TERM TOTAL			21	30		TERM TOTAL			20	30	
5TH TERM						6TH TERM					
CEV 301 AIR QUALITY MANAGEMENT	3	0	3	5	1	CEV 302 AIR POLLUTION AND CONTROL	3	0	3	5	1
CEV 303 PHYSICOCHEMICAL TREATMENT	3	0	3	5	1	CEV 304 BIOLOGICAL TREATMENT	3	0	3	5	1
CEV 305 WATER SUPPLY and SEWERAGE	3	0	3	5	1	CEV 306 UNIT OPERATIONS	3	0	3	5	1
CEV 300 SUMMER PRACTICE I	0	3	2	5	1		3	2	3	5	1
MUST COURSES TOTAL	9	3	11	20		MUST COURSES TOTAL	9	2	9	15	
						DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1
DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1	DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1
DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1	DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1
ELECTIVE COURSES TOTAL	6	0	6	10		ELECTIVE COURSES TOTAL	9	0	9	15	
TERM TOTAL			17	30		TERM TOTAL			18	30	
7TH TERM						8TH TERM					
LIST OF MUST COURSES						LIST OF MUST COURSES					
CEV 401 BEHAVIOR AND TRANSPORT OF	3		3	5	1	CEV 402 GRADUATION PROJECT	3	0	3	5	10

POLLUTANTS	3	0	3	5	1						
CEV 403 PROJECT MANAGEMENT	3	0	3	5	10	CEV 404 SOLID WASTE MANAGEMENT	3		3	5	1
CEV 400 SUMMER PRACTICE II	0	3	2	5	1	CEV 406 ENVIRONMENTAL ECONOMY	3		3	5	1
MUST COURSES TOTAL	6	5	8	15		MUST COURSES TOTAL	9	0	9	15	
DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1	DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1
DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1	DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1
DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1	DEPARTMENTAL ELECTIVE COURSE I	3	0	3	5	1
ELECTIVE COURSES TOTAL	9	0	9	15		ELECTIVE COURSES TOTAL	9	0	9	15	
TERM TOTAL			17	30		TERM TOTAL			18	30	
FINAL TOTAL									157	240	
NUMBER OF MUST COURSES CREDITS									118	176	
NUMBR OF ELECTIVE COURSE CREDITS									39	64	
PERCENTAGE OF MUST COURSE CREDITS										73%	
PERCENTAGE OF ELECTIVE COURSE CREDITS										27%	

*Program is totally English (100%).

** State just the number of the sections of the courses that you offer with your code.



HACETTEPE UNIVERSITY

ANKARA

DECREES OF THE SENATE

<u>SESSION DATE</u>	<u>SESSION NUMBER</u>	<u>DECREE NUMBER</u>
08.10.2014	39	337 OF 2014

With the decree of Institute Committee dated 29.09.2014 and with number 03-01 of 2014 about changing the name and code of “**EBB 629 Data Analysis Methods**” as “**OLC 629 Data Analysis Methods**” which take place in Institute of Educational Sciences, Department of Educational Sciences, Master Program of Measurement and Evaluation in Education (with thesis) and transferring the students who chose “**EBB 629 Data Analysis Methods**” to sections of “**OLC 629 Data Analysis Methods**”, beginning from Fall term of 2014-2015 academic year, the decree of the University Curriculum Committee was decided to be accepted unanimously.