



Faculty of Engineering-Mansoura University

Civil Engineering B.Sc. Program Specification

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Civil Engineering

B.Sc. Program Specification

1. Introduction

1.1 Basic Information

Program Title: Civil Engineering

Program Type: Single

Department: Civil Engineering (Structure, Public Works, and Irrigation and Hydraulics)

Coordinator: Prof. Mohamed Naguib

Assistant Coordinator:

1. Prof. Mahmoud El-Mewafi Ibrahim
2. Prof. Adel Al-Masry

Dates of Program Specification Approval:

1.2 Staff Members:

The Civil Engineering Program is taught by highly qualified staff members. All of them are full time employed. **Appendix 1** shows the staff members' names, resume and the subjects taught by each of them.

1.3 Internal Evaluators:

The program was evaluated by three internal evaluators. Their evaluation showed that the program specification agrees with the National Academic Reference Standards (NARS), **Appendix 2**. Hence, their comments have been taken into account, and approved by the scientific department.

1.4 External Evaluators:

The program was evaluated by two external evaluators. Their evaluation showed that the program specification agrees with the NARS, **Appendix 3**. Hence, their comments have been taken into account, and approved by the scientific department.

2. Professional Data

2.1 Preamble

Engineers solve real-life problems. They find the best solutions through the application of their knowledge, experience and skills. Engineers help to define and refine the way of life by providing innovative, higher-performance, safer, cleaner or more comfortable day-use facilities for human beings. They seek improvement through the processes of invention, design, manufacturing and construction. The engineer's problem-solving complexity grows as the world's social and technological problems become more closely related. The engineering study provides the students with the advanced, effective, technology-based education justifying the expectations of the future of science and technology. It should also provide the technical understanding and problem-solving skills which allow coping with the challenges of tomorrow.

Civil Engineering is the profession that provides the community with a wide range of civil works and structures for better and easier living conditions. Civil engineering programs use mathematics, natural sciences, engineering and human sciences to provide easier life for mankind.

Civil engineer is capable of permanently providing the community with every new and up-to-date development in all civil engineering disciplines through long life learning

2.2 Program Mission and Aims

2.2.1 Program Vision

The mission of the program is to excel in the preparation of a competent graduate in all sub-areas of civil engineering, and to provide service to the community and to make significant contributions to the economic development of the country.

2.2.2 Program Mission

The mission of the Bachelor of Science in civil engineering program is to prepare innovative graduates able to work as planners, designers, construction supervisors, construction managers and consultants for private and governmental firms in disciplines involving structures of all types, building materials, geo-techniques and foundations, roadways and traffic engineering, surveying works, environmental engineering, water and sewerage networks, treatment plants, water resources, hydrology, irrigation and water control structures.

2.2.3 Program Aims

The civil engineering program aims to provide future engineers with appropriate theoretical knowledge and technical skills to respond to professional market demand. The following are the aimed graduate attributes:

1. problem solving and deep understanding based on a fundamental knowledge of humanities, social sciences, mathematics, science, engineering sciences, and a broad range of civil engineering technical areas;
2. consideration of global and societal concerns, ethics, and sustainability when making engineering decisions;
3. leadership and effective communication within a multi-disciplinary environment;
4. society engagement and contributions to society; and
5. pursuit of lifelong learning and professional development.

2.3 Intended Learning Outcomes (ILO's)

2.3.1 Knowledge and Understanding

The graduates of the civil engineering program should be able to demonstrate the knowledge and understanding of:

1. Concepts and theories of mathematics and sciences appropriate to the discipline.
2. Identity Basics of information and communication technology (ICT).
3. Memorize Characteristics of engineering materials.
4. Principles of design including elements design, process and/or a system related to specific disciplines.
5. Methodologies of solving engineering problems, data collection and interpretation.
6. Quality assurance systems, codes of practice and standards, health and safety requirements and environmental issues.
7. Business and management principles relevant to engineering.
8. Current engineering technologies as related to disciplines.
9. Topics related to humanitarian interests and moral issues.
10. Write Technical report.
11. Professional ethics and impacts of engineering solutions on society and environment
12. Contemporary engineering topics.
13. Engineering principles in the fields of reinforced concrete and metallic structures' analysis and design, geo-techniques and foundations, hydraulics and hydrology, water resources, environmental and sanitary engineering, roadways and traffic systems, surveying and photogrammetry.
14. Properties, behavior and fabrication of building materials.
15. Projects and construction management including planning, finance, bidding and contracts.

2.3.2 Intellectual Skills

The graduates of the civil engineering program should be able to:

1. Select appropriate mathematical and computer-based methods for modeling and analyzing problems.
2. Select appropriate solutions for engineering problems based on analytical thinking.
3. Think in a creative and innovative way in problem solving and design.
4. Combine, exchange, and assess different ideas, views, and knowledge from a range of sources.
5. Assess and evaluate the characteristics and performance of components, systems and processes.
6. Investigate the failure of components, systems, and processes.
7. Solve engineering problems, often on the basis of limited and possibly contradicting information.
8. Select and appraise appropriate ICT tools to a variety of engineering problems.
9. Judge engineering decisions considering balanced costs, benefits, safety, quality, reliability, and environmental impact.
10. Incorporate economic, societal, environmental dimensions and risk management in design.
11. Analyze results of numerical models and assess their limitations.
12. Create systematic and methodic approaches when dealing with new and advancing technology.
13. Select appropriate building materials from the perspective of strength, durability, suitability of use to location, temperature, weather conditions and impacts of seawater and environment
14. Select and design adequate water control structures, irrigation and water networks, sewerage systems and pumping stations
15. Analyze and select codes of practices in designing reinforced engineering concrete and metallic structures of all types. Determine the levels, types and design systems of building foundations, tunnels and excavations
16. Define, plan, conduct and report management techniques
17. Assess and evaluate different techniques and strategies for solving engineering problems.

2.3.3 Practical and Professional Skills

On successful completion of the program, the graduates of the civil engineering program should be able to:

1. Apply knowledge of mathematics, science, information technology, design, business context and engineering practice integrally to solve engineering problems.
2. Professionally merge the engineering knowledge, understanding, and feedback to improve design, products and/or services.
3. Create and/or re-design a process, component or system, and carry out specialized engineering designs.
4. Practice the neatness and aesthetics in design and approach.
5. Use computational facilities and techniques, measuring instruments, workshops and laboratory equipment to design experiments, collect, analyze and interpret results.
6. Use a wide range of analytical tools, techniques, equipment, and software packages pertaining to the discipline and develop required computer programs.
7. Apply numerical modeling methods to engineering problems.
8. Apply safe systems at work and observe the appropriate steps to manage risks.
9. Demonstrate basic organizational and project management skills.
10. Apply quality assurance procedures and follow codes and standards.
11. Exchange knowledge and skills with engineering community and industry.
12. Prepare and present technical reports.
13. Use laboratory and field equipment competently and safely
14. Observe, record and analyze data in laboratory and in the field
15. Practice professionally construction management skills. Prepare technical drafts and detailed drawings both manually and using CAD
16. carry out maintenance of all types of roadways and traffic systems
17. Prepare quantity surveying reports
18. Plan, design, construct, operate, control and carry out maintenance of all types of roadways and traffic systems.

2.3.4 General and Transferrable Skills

The graduates of the civil engineering program should be able to:

1. Collaborate effectively within multidisciplinary team.
2. Work in stressful environment and within constraints.
3. Communicate effectively.
4. Demonstrate efficient IT capabilities.
5. Lead and motivate individuals.
6. Manage tasks and resources efficiently.
7. Search for information and adopt life-long self learning.
8. Acquire entrepreneurial skills.
9. Refer to relevant literature effectively.

2.4 Curriculum Structure and Contents

2.4.1 Program Contents:

The program duration is five years, 10 semesters. The following are the subjects taught during this program.

2.4.2 Curriculum Mapping

The following table gives the contribution of the individual courses to the program Intended Learning Outcomes in a matrix form. This matrix was developed by the program coordinator, assistant coordinators and professional staff members. The mapping matrix shows that the program courses present balanced contribution to the program ILO's includes also two tables summarizing the program ILO's contributed by the individual courses and the courses contributing to the individual ILO's.

▪ **Preparatory Year-First Semester:**

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
BAS1011	Mathematics (1)	4	3	0	7	3	45	0	130	175		5	2				
BAS1012	Physics*	4	1	1	6	3	40	10	100	150		3	2			1	
BAS1013	Mechanics*	3	2	0	5	2	35	0	90	125		3	2				
BAS+PRE10 14	Engineering drawing and Projection*	2	3	0	5	2	40	0	60	100			3	2			
BAS1015	Chemistry	3	1	1	5	3	35	10	80	125		2	2			1	
BAS1016	Technical Language (English)	0	2	0	2	2	10	0	40	50	2						
Total		16	12	2	30	15	205	20	500	725	2	13	11	2	0	2	0

* Continuous, two semesters

Preparatory Year-Second Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
BAS1021	Mathematics (2)	4	3	0	7	3	45	0	130	175		5	2				
BAS1022	Physics*	4	1	1	6	3	40	10	100	150		3	2			1	
BAS1023	Mechanics*	2	2	0	4	2	30	0	70	100		2	2				
BAS+PRE1024	Engineering drawing and Projection*	1	3	0	4	4	35	0	90	125			2	1			1
PRE1025	Production engineering	2	2	0	4	2	20	10	70	100			2	2			
CSE1026	Introduction to Computer	2	1	0	3	2	25	0	50	75				1	2		
BAS1027	Humanities (1)	2	0	0	2	2	0	0	50	50	2						
Total		17	12	1	30	18	195	20	560	775	2	10	10	4	2	1	1

* Continuous, two semesters

First Year-First Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
BAS 8111	Mathematics (III)	4	2	0	6	3	50	0	100	150	-	6	-	-	-	-	-
IRH 8112	Law and financing sources	3	1	0	4	3	30	0	70	100	3	-	-	1	-	-	-
PWE 8113	Statistical applications in civil engineering	4	2	0	6	3	50	0	100	150	-	4	1	1	-	-	-
IRH 8114	Civil Engineering drawing	2	4	0	6	3	50	0	100	150	-	-	-	2	-	3	1
PWE 8115	Plane Surveying *	2	2	0	4	--	30	0	0	30	-	1	-	1	-	2	-
STE 8116	Theories of structures (I)	2	2	0	4	--	40	0	-	40	-	2	2	-	-	-	-
Total		17	13	0	30	12	250	0	370	620	3	13	3	5	0	5	1

* Continuous, two semesters

First Year –Second Semester

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical/Oral Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT Proj. & Practice	Discretionary	
BAS 8121	Mathematics (IV)	4	2	0	6	3	50	0	100	150	-	4	-	-	2	-	-
STE 8122	Strength of materials (I)	4	2	2	8	3	60	10	130	200	-	2	2	2	-	2	
EE + MPE 8123	Electrical and mechanical installation	4	2	0	6	3	50	0	100	150	-	2	2	-	2	-	-
IRH 8124	Technical reports in civil engineering	2	-	-	2	2	0	0	50	50	2	-	-	-	-	-	-
PWE 8125	Plane Surveying*	2	1	1	4	4	30	30	110	170	-	-	1	2	-	1	
STE 8126	Theories of structures (I)	2	2	0	4	4	40	0	120	160	-	1	2	1	-	-	-
Total		18	9	3	30	19	230	40	610	880	2	9	7	5	4	3	0

* Continuous, two semesters

▪ **Second Year-First Semester:**

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical/Oral Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
IRH 8211	Hydraulics (I)	4	1	1	6	3	50	10	90	150	-	2	2	1	-	1	
IRH 8212	Irrigation and drainage engineering	2	2	0	4	3	30	0	70	100		1	-	2	-	1	
STE 8213	Strength of materials (II)	4	2	2	8	3	60	10	130	200	1	2	1	1	1	2	
PWE 8214	Environmental sciences	2	-	-	2	2	10	0	40	50	2	-	-	-	-	-	
STE 8215	Engineering behaviors	2	0	0	2	2	0	0	50	50	2	-	-	-	-	-	
STE 8216	Theories of structures (II)	2	2	0	4	---	---	40	--	40	-	1	2	1	-	-	
PWE 8217	Topographic Surveying and geodesy *	2	1	1	4	---	---	30	--	30	-	-	1	1	1	1	
Total		18	8	4	30	13	150	90	380	620	5	6	6	6	2	5	0

* Continuous, two semesters

▪ Second Year-Second Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical/Ora l Exam	Written Exam	Total	Hum. & Soc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Discretionary	
ARE 8221	Building systems	2	2	0	4	3	30	0	70	100	2	-	-	1	-	1	-
PWE 8222	Geology and soil mechanics	4	2	0	6	3	40	10	100	150		1	1	2	1	-	-
STE 8223	Reinforced Concrete (I)	4	2	0	6	3	50	0	100	150	-	1	2	2	1	-	-
IRH 8224	Hydrology	2	1	0	3	2	15	10	50	75	-	1	1	1	-	-	
PWE 8225	Construction Equipment and Technology	2	1	0	3	2	15	0	60	75	-	-	-	1	-	2	
STE 8226	Theories of structures (II)	2	2	0	4	4	40	0	120	160	-	-	2	1	1	-	-
PWE 8227	Topographic Surveying and geodesy *	2	1	1	4	4	30	30	110	170	-	1		1	1	1	-
Total		18	11	1	30	21	220	50	610	880	2	4	6	9	4	4	0

* Continuous, two semesters

▪ **Third Year-First Semester:**

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ITC	Discretionary	
IRH 8311	Design of irrigation works (I)	4	2	0	6	4	50	0	100	150	1	-	2	2	-	-	1
STE 8312	Quantities Estimation	2	2	0	4	3	30	0	70	100	-	-	1	1	1	1	-
STE 8313	Theories of structures (III)	2	2	0	4	3	30	0	70	100	-	-	2	-	1	-	1
PWE 8314	Railroad Engineering	2	2	0	4	3	30	0	70	100	1	-	1	1	1	-	-
IRH 8315	Hydraulics (II) *	3	2	0	5	--	35	15	--	50	-	1	2	1	-	1	-
STE 8316	Reinforced Concrete (II)	2	2	0	4	-	40	0	0	40	-	-	1	2	1	-	-
STE 8317	Steel constructions (I)	2	2	0	4	-	40	0	0	40	-	-	1	2	1	-	-
Total		17	14	0	31	13	255	15	310	580	2	1	10	9	5	2	2

* Continuous, two semesters

Third Year-Second Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT Proj. & Practice	Discretionary	
STE 8321	Soil mechanics and foundations (I)	4	4	0	8	4	70	0	130	200		1	2	2	1	1	1
PWE 8322	Transportation and Traffic Engineering	4	2	0	6	3	40	10	100	150	2	1	-	1	1		1
STE 8323	Technical reports in civil engineering (II)	2	0	0	2	2	0	0	50	50	2	-		-	-	-	-
IRH 8324	Hydraulics (II) *	3	2	0	5	3	50	20	130	200	-	1	1	2	-	1	-
STE 8325	Reinforced Concrete (II)	2	2	0	4	4	40	0	120	160	-	1	1	1	-	-	1
STE 8326	Steel constructions (I)	2	2	0	4	4	40	0	120	160	-	1	1	2	-	-	-
Total		17	12	0	29	20	240	30	650	920	4	5	5	8	2	2	3

* Continuous, two semesters

▪ Forth Year-First Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical/Oral Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
STE 8411	Soil mechanics and foundations (II)	4	2	2	8	4	60	20	120	200	-	1	2	2		2	1
IRH 8412	Design of irrigation works (II)	4	2	0	6	4	50	0	100	150	1	-	2	1	1		1
PWE 8413	Highway and Airport Engineering	4	2	0	6	3	50	0	100	150	1		1	1	1	1	1
STE 8414	Construction Project Management	2	2	0	4	3	30	0	70	100	1			1	1		1
STE 8415 مقرر اختياري- ١	Advanced construction materials	2	1	0	3	2	25	0	50	75				2	1		
STE 8415 مقرر اختياري- ١	Design of Earthquake Resistant structures	2	1	0	3	2	25	0	50	75				2	1		
STE 8415 مقرر اختياري- ١	Brick Constructions Design	2	1	0	3	2	25	0	50	75				2	1		
PWE 8415 مقرر اختياري- ١	Modern economical Techniques in waste water collection and treatment	2	1	0	3	2	25	0	50	75				2	1		
IRH 8415 مقرر اختياري- ١	Water resources engineering	2	1	0	3	2	25	0	50	75				2	1		
PWE 8416 مقرر اختياري- ٢	Modern trends in asphalt paving design mixes	2	1	0	3	2	25	0	50	75	1			1			1
PWE 8416 مقرر اختياري- ٢	Remote Sensing	2	1	0	3	2	25	0	50	75	1			1			1
PWE 8416 مقرر اختياري- ٢	NONCLASSICAL METHODS IN POTABLE WATER PURIFICATION	2	1	0	3	2	25	0	50	75	1			1			1
STE 8416 مقرر اختياري- ٢	REPAIR AND STRENGTHENING OF CONSTRUCTION	2	1	0	3	2	25	0	50	75	1			1			1
IRH 8416 مقرر اختياري- ٢	Internal navigation engineering	2	1	0	3	2	25	0	50	75	1			1			1

Total	18	10	2	30	18	240	20	490	750	4	1	5	8	4	3	5
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Forth Year-Second Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area					
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice
STE 8421	Reinforced Concrete (III)	4	2	0	6	4	50	0	100	150		1	1	2	1	1
STE 8422	Steel constructions (II)	4	2	0	6	4	50	0	100	150		1	1	2	1	1
IRH 8423	Harbors Engineering	2	2	0	4	3	30	0	70	100			1	2		1
PWE 8424	Sanitary engineering	4	2	0	6	3	35	0	90	125	1	1	1	2	1	
IRH 8425 مقرر اختياري - ٣	Design of advanced irrigation systems	2	1	0	3	2	25	0	50	75				1	1	1
IRH 8425 مقرر اختياري - ٣	Design of large irrigation structures	2	1	0	3	2	25	0	50	75				1	1	1
IRH 8425 مقرر اختياري - ٣	Design of coastal protection works	2	1	0	3	2	25	0	50	75				1	1	1
PWE 8425 مقرر اختياري - ٣	Air Transportations Systems	2	1	0	3	2	25	0	50	75				1	1	1
STE 8425 مقرر اختياري - ٣	Structural Analysis Using Computer	2	1	0	3	2	25	0	50	75				1	1	1
STE+PWE+IRH8426	The project (all depts. of civil engineering)	0	5	0	5	0	50	100	0	150				1		2 2
		16	14	0	30	16	240	100	410	750	1	3	4	10	4	2 6

Total teaching hours and subjects distribution over the subject areas:

Semester	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
	Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
Preparatory year/ 1 st semester	16	12	2	30	15	205	20	500	725	2	13	11	2	0	2	0
Preparatory year/ 2 nd semester	17	12	1	30	18	195	20	560	775	2	10	10	4	2	1	1
First year/1 st semester	17	13	0	30	12	250	0	370	620	3	13	3	5	0	5	1
First year/ 2 nd semester	18	9	3	30	19	230	40	610	880	2	9	7	5	4	3	0
Second year/1 st semester	18	8	4	30	13	150	90	380	620	5	6	6	6	2	5	0
Second year/ 2 nd semester	18	11	1	30	21	220	50	610	880	2	4	6	9	4	4	0
Third year/1 st semester	17	14	0	31	13	255	15	310	580	2	1	10	9	5	2	2
Third year/ 2 nd semester	17	12	0	29	20	240	30	650	920	4	5	5	8	2	2	3
Fourth year/1 st semester	18	10	2	30	18	240	20	490	750	4	1	5	8	4	3	5
Fourth year/ 2 nd semester	16	14	0	30	16	240	100	410	750	1	3	4	10	4	2	6
Total of Five Years	172	115	13	300	165	2225	385	4890	7500	27	65	67	66	27	29	18
% of Five Years	57.3	38.3	4.3	100.0	55.0	741.7	128.3	1630.0	2500.0	9.0	21.7	22.3	22.0	9.0	9.7	6.0
% NARS										9-12	20-26	20-23	20-22	9-11	8-10	6-8

The above table shows the agreement with NARS requirements.

2.4.3 Courses Specifications

The detailed program courses specifications are given. These courses specifications were revised and approved on 2010. The contribution of each course to the program ILO's were considered during this revision.

3. Program Admission Requirements

- 1- Secondary School Certificate Graduates of other countries are eligible to join this program if they met the minimum grades set by Admission Office of the Ministry of Higher Education.
- 2- The study begins with a preparatory year for all students before specialization in civil Engineering. Students' departmental allocation is in accordance with the Faculty Council regulations.

4. Regulations for Progression and Program Completion

Attendance of program is on full-time basis.

- 1- A student may be transferred to a following academic year if s/he passes all attended courses but a maximum of two in accumulation – excluding humanity or cultural courses.
- 2- The humanity and cultural courses are not counted as non-passing courses, but have to be completed before graduation.
- 3- The study follows the semester system with two semesters per year, 15 weeks each.
- 4- The time for the Bachelor degree is four years preceded by a preparatory year.
- 5- A minimum of 75 % student attendance to lectures, tutorials and laboratory exercises per course is conditional for taking the final exams, in accordance with the Departmental Board recommendation approved by the Faculty Council, otherwise students would be deprived from taking their final exam(s).
- 6- The student is entitled to re-set failed exam(s) with fellow-students undertaking the course(s) in following term(s).
- 7- A 65%+ score in re-set exam(s) is reduced to a ceiling of "Pass" grade, except for acceptable excuses.
- 8- Final-year students who fail no more than two courses plus any number of humanity cultural courses are re-examined in November.
- 9- If they fail re-set(s), they are entitled to be re-examined with fellow-students undertaking the course(s) in following term(s).
- 10- Except for those in final-year, students who provide evidence of successfully completing particular courses in parallel academic institutions, which are recognized by the Ministry of Higher Education, may be exempted from attending these courses. This may only take place after a decision from the Academy Chairman, following the Education & Student Affairs Council and the Faculty and Departmental Boards approval respectively; with no desecration of Article (36) of University Regulation Law.

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- 11- The course which is taught in one semester and has one examination mark and more than examination answer sheets, is treated as one-course as regards the course evaluation.
- 12- If a course includes written and oral / lab tests, the course evaluation is made according to the total mark of all tests in addition to the academic standing throughout the year.
- 13- No mark is recorded for the student who fails to appear in the written examination.
- Appendix 4** gives the details of program progression and grades evaluation.

5. Student Assessment (Methods and rules for student assessment)

Method (tool)	Assessed ILO's
1- Written exam	A, B & C
2- Quizzes and reports	A, B & C
3- Oral exams	A, B & C
4- Practical	A & C
5- Project applied on a practical field problem	A, B, C & D

6. Program Evaluation

Evaluator	Tool
1- Senior students	questionnaire
2- Alumni	questionnaire
3- Stakeholders	questionnaire
4- Internal Evaluator(s) (External Examiner (s))	report
5- External Evaluator(s)	report
6- Other societal parties	None

Appendix 1

Staff Members

This appendix explains the agreement of staff members qualifications with the courses that
they
lecture or can lecture

Structure Engineering Department Staff Members

No.	Name	Dept.	Courses	الدرجة المالية
1	Prof. Dr. Ahmed Alamin Elnimr	STE	STE8321 - STE8411	استاذ غير متفرغ
2	Prof. Dr. Yousef Ibrahim Agag	STE	STE8216 - STE8313 - STE8421	استاذ متفرغ
3	Prof. Dr. Ahmed Elhasanin Ahmed Abdelrahem	STE	STE8122 - STE8213-STE8313 - STE8323 - STE8415	استاذ متفرغ
4	Prof. Dr. Nabil Sayed Mahmoud Hasan	STE	STE8422 - STE8326 - STE8317	استاذ متفرغ
5	Prof. Dr. Ahmed Elsaed Ahmed Badr	STE	STE8422 - STE8326 - STE8317	استاذ متفرغ
6	Prof. Dr. Salah Eldin Elsaed Elmetwally	STE	STE8223- STE8316- STE8325- STE8415- STE8421	استاذ
7	Prof. Dr. Adel Elsayed Nasr Ahmed Dif	STE	STE8411 - STE8321	استاذ
8	Prof. Dr. Saad Eldin Mostafa Mohamed Abdrabo	STE	STE8422- STE8326-STE8317	استاذ
9	Prof. Dr. Mahmoud Mohamed	STE	STE8321- STE8411	استاذ
10	Prof. Dr. Mohamed Naguib Abo ELsaad	STE	STE8116 -STE8126- STE8216- STE8226- STE8313- STE8425	استاذ
11	Prof. Dr. Ahmed Mahmoud Yousef	STE	STE8325 - STE8316 - STE8223 - STE8415 - STE8421	استاذ
12	Prof. Dr. Mohamed Mohamed Yosry El Shikh	STE	STE8122 - STE8213 - STE8215 - STE8323 - STE8414 - STE8415 - STE8416	استاذ
13	Prof. Dr. Emad Elsaid Ismael Elbeltagy	STE	STE8414 - STE8116 -STE8126	استاذ
14	Assoc. Prof. Ali Hasan Ali ELagamy	STE	STE8122 - STE8213- STE8215 - STE8415	استاذ مساعد متفرغ
15	Assoc. Prof. Hamed Shaker Hasan Askar	STE	STE8325 - STE8316 - STE8223- STE8415 - STE8421	استاذ مساعد
16	Assoc. Prof. Ahmed Amin Amin Ghaleb	STE	STE8223- STE8316- STE8325- STE8415- STE8421	استاذ مساعد متفرغ
17	Assoc. Prof. Magdah Ibrahim Mosa	STE	STE8323 - STE8213 - STE8122 -STE8415 -	استاذ مساعد

	Shehata		STE8415- STE8416	
18	Assoc. Prof. Ahmed Mohamed Elsayed Tahwiah	STE	STE8323 - STE8213 - STE8122 -STE8415 - STE8415 - STE8416	أستاذ مساعد
19	Assoc. Prof. Adel Mohamed Kamel Gabr	STE	STE8321 - STE8411	أستاذ مساعد
20	Dr. Salah Eldin Elsayed Elbagalaty	STE	STE8116 - STE8126 - STE8216 - STE8226 - STE8313	مدرس
21	Dr. Shaban Ibrahim Salem	STE	STE8126 - STE8216 - STE8226- STE8313 - STE8116	مدرس
22	Dr. Awad Mohamed Taha Elmansy	STE	STE8223 - STE8316- STE8325 - STE8415- STE 8415 - STE8421	مدرس
23	Dr. Nabil Saad Mohamed Balat	STE	STE8126 - STE8216 - STE8313 - STE8116	مدرس
24	Dr. Afaf Hamdy Naser Salem	STE	STE8223 - STE8316- STE8325 - STE8421	مدرس
25	Dr. Mervat Ragab Hasan Shoshah	STE	STE8321 - STE8411	مدرس
26	Dr. Fikry Abdoh Mahmoud Salem	STE	STE8425 - STE8422 - STE8326 -STE8317	مدرس
27	Dr. Abdel Aziz Mohamed Ahmed Elhalawany	STE	STE8126 - STE8122 - STE8213 - STE8313 - STE8415	مدرس
28	Dr. Mohamed Elsaid Mohamed El Zoghaby	STE	STE8223 - STE8316- STE 8325 - STE8421	مدرس
29	Dr. Aymin Ibrahim Mahmoud Eltahrany	STE	STE8321 - STE8411	مدرس
30	Dr. Mohamed Eltantawy Elmadawy	STE	STE8126 - STE8313 - STE8226 -STE8216 - STE8116	مدرس
31	Dr. Mohamed Ahmed Mohamed El Zareef	STE	STE8223 - STE8316 - STE8325 - STE8415 - STE8415 - STE8421	مدرس
32	Eng. Basem Salah Abdel-Hady	STE	STE	مدرس مساعد
33	Eng. Osamah Elsaid Abdelmonem	STE	STE	مدرس مساعد
34	Eng. Mohamed Mohamed Mortagy Eltantawy	STE	STE	معيد
35	Eng. Reda Mohamed Alaam	STE	STE	معيد

36	Eng. Esam Hashim Mohamed Eltayeb	STE	STE	معيد
37	Eng. Ahmed Magdy Amin Shita	STE	STE	معيد
38	Eng. Shrif Mohsen Mohamed Gomah	STE	STE	معيد
39	Eng. Ahmed Hussin Ali Abdelrahman	STE	STE	معيد
40	Eng. Shaymaa Ahmed Abdelraoof	STE	STE	معيد
41	Eng. Mahmoud Samy Mohamed Elshehawy	STE	STE	معيد
42	Eng. Waled Elmetwaly Megahid Elimam	STE	STE	معيد
43	Eng. Islam Mohamed Ahmed Elmasoody	STE	STE	معيد
44	Eng. Mohamed Alenawy Alsaeed Alenawy	STE	STE	معيد
45	Eng. Mohamed Ibrahim Mohamed Ghazy	STE	STE	معيد
46	Eng. Ahmed Sad Alsayed Alshora	STE	STE	معيد
47	Eng. Ahmed Mohamed Abaas Mohamed	STE	STE	معيد
48	Eng. Heba Ali Mohamed Ali Mostafa	STE	STE	معيد
49	Eng. Ahmed Ibrahim Almetwally	STE	STE	معيد
50	Eng. Khaled Mohamed Hassan Mgahed	STE	STE	معيد
51	Eng. Aya Hamed Mohamed Hassan	STE	STE	معيد

Public Works Engineering Department Staff Members

No.	Name	Dept.	Courses	الدرجة المالية
1	Prof. Dr. Mohammed El Shabrawy Mohammed Ali	PWE	PWE 8413, PWE 8416, PWE 8425	أستاذ متفرغ
2	Prof. Dr. Huda Fekre El-Gamal	PWE	PWE 8416, PWE 8424	أستاذ
3	Prof. Dr. Mahmoud Fahmi El-Baz	PWE	PWE 8413, PWE 8416, PWE 8425	أستاذ
4	Prof. Dr. Mahmoud EL-Mewafi Shetwe	PWE	PWE 8217, PWE 8227, PWE 8416	أستاذ
5	Prof. Dr. Zaki Mohamed Zidan	PWE	PWE 8115, PWE 8125	أستاذ
6	Assoc. Prof. Elsaid Abd Elazim Shawaly	PWE	PWE8322	أستاذ مساعد متفرغ
7	Assoc. Prof. Mourad Henry Zaky Ibrahim	PWE	PWE 8222	أستاذ مساعد
8	Assoc. Prof. El said Ahmed Shoep	PWE	PWE 8314	أستاذ مساعد
9	Assoc. Prof. Hisham Mohamed Abo Halima	PWE	-----	أستاذ مساعد
10	Assoc. Prof. Hisham Khalil EL-Etrepe	PWE	PWE 8415, PWE 8424	أستاذ مساعد
11	Assoc. Prof. Kamal El Hassaneen Radwan	PWE	PWE 8214, PWE 8415, PWE 8424	أستاذ مساعد
12	Assoc. Prof. Ragab Mohamed Brakat El - Shahawy	PWE	PWE 8214, PWE 8415, PWE 8424	أستاذ مساعد
13	Assoc. Prof. Al-Hosain Mansour Ali Abd Elrahman	PWE	-----	أستاذ مساعد
14	Dr. Metwally Abdel-Aziz Mohamed EL- Sekelly	PWE	PWE 8413, PWE 8416, PWE 8425	مدرس
15	Dr. Ahmed Awad Ali	PWE	PWE 8115, PWE 8125	مدرس
16	Dr. Magdy Abd El Halim Mohamed Zayed	PWE	PWE 8222	مدرس
17	Dr. Sana Hasan Atia	PWE	-----	مدرس
18	Dr. Moharm Fouad Abdo	PWE	PWE 8113	مدرس
19	Dr. Mostafa Ahmed Kamel	PWE	PWE 8225, PWE 8413, PWE 8416, PWE 8425	مدرس

20	Dr. Shreif Masoud Ahmed	PWE	-----	مدرس
21	Dr. Ashraf Abd El Wanis Abd El Mawla	PWE	PWE 8115, PWE 8125, PWE 8225	مدرس
22	Dr. Mosbeh Rashed Mosbeh Kaloop	PWE	PWE 8115, PWE 8125, PWE 8225, PWE 8416	مدرس
23	Dr. Abd Elmonem Bakr Ali Orabe	PWE	PWE 8416	مدرس متفرغ
24	Eng. Fouze Hamed Zarzora	PWE	PWE	مدرس مساعد
25	Eng. Hane Mhna Shahata	PWE	PWE	مدرس مساعد
26	Eng. Gon Awad Mouad	PWE	PWE	مدرس مساعد
27	Eng. Mohamed Ibrahim Gar Elalam Rashed	PWE	PWE	مدرس مساعد
28	Eng. Omar Salah Eldin	PWE	PWE	مدرس مساعد
29	Eng. Ahmed Mohamed Naguib	PWE	PWE	معيد
30	Eng. Esmael Zaher Mohamed	PWE	PWE	معيد
31	Eng. Mohamed Abd-Alla Mohamed	PWE	PWE	معيد
32	Eng. Ibrahim Mohamed Amin Abd Alfatah	PWE	PWE	معيد
33	Eng. Amro Fathi Mohamed Nasr	PWE	PWE	معيد
34	Eng. Mohamed Alsaed Alsayed Zahran	PWE	PWE	معيد
35	Eng. Faten Reda Ahmed Ganem	PWE	PWE	معيد

Hydraulic and Irrigation Engineering Department Staff Members

No.	Name	Dept.	Courses	الدرجة المالية
1	Prof. Dr. Sharl Shokry Sakla	IRH	IRH 8412	استاذ غير متفرغ
2	Prof. Dr. Abd El Razek Ahmed El Sayed Zidan	IRH	IRH 8315- IRH 8324- IRH 8211	أستاذ متفرغ
3	Prof. Dr. Mohsen Mohamed Ezz-El Din	IRH	—————	أستاذ
4	Prof. Dr. Mahmoud Mohamed Abd-El Aziz El- Gamal	IRH	IRH 8412- IRH 8425- IRH 8423	أستاذ متفرغ
5	Prof. Dr. Adel Abdu Bayoumi El-Masry	IRH	—————	أستاذ
6	Prof. Dr. Tarek Abd-El Hamed Saadfán	IRH	IRH 8112- IRH 8211- IRH 8224	أستاذ
7	Prof. Dr. Kassem Salaah Abd-El Wahab El- Alfy	IRH	IRH 8114- IRH 8212- IRH 8324	أستاذ
8	Prof. Dr. Amr Mohamed Mahmoud El-Fiki	IRH	—————	أستاذ
9	Prof. Dr. Osami Saied El Sayed Sayed Ahmed Rageh	IRH	IRH 8112- IRH 8423- IRH 8416- IRH 8425	أستاذ متفرغ
10	Prof. Dr. Saad Hamed Saad Moharam	IRH	—————	أستاذ متفرغ
11	Ass. Prof. Dr. Tharwat Eid Atwa Sarhan	IRH	—————	أستاذ مساعد
12	Ass. Prof. Dr. Mohamed Tarek El-Saied Shama	IRH	IRH 8211- IRH 8212- IRH 8416- IRH 8423	أستاذ مساعد
13	Ass. Prof. Dr. Hosam Abd-El Aziz Ahmed Abd-el Gawad	IRH	—————	أستاذ مساعد
14	Ass. Prof. Dr. Mohamed Gamal Mohamed Abd-El Alla	IRH	IRH 8311- IRH 8415- IRH 8212	أستاذ مساعد
15	Dr. Khaled Sayed Abd- El Aziz Hasanin	IRH	IRH 8311- IRH 8124- IRH 8224	مدرس
16	Dr. Hamdy Ahmed Abd-El Latif Abd- El latif El Ghandour	IRH	IRH 8211- IRH 8224- IRH 8124	مدرس
17	Dr. Samer Mohamed Mohamed El- Abd	IRH	IRH 8412- IRH 8415- IRH 8425	مدرس
18	Dr. Nader Ahmed Refat El-Mahdy keshta	IRH	—————	مدرس

19	Dr. Reda Mohamed Abd-El Aal	IRH	_____	مدرس
٢٠	Dr. Samy Khalaf Allah Ibrahim Ramadan	IRH	_____	مدرس
21	Dr. Lamy Mohamed Tayseer Abdu	IRH	_____	مدرس
22	Eng. Mohamed Ahmed Abd-El Hady Eid	IRH	_____	مدرس مساعد
23	Eng. Ahmed Mohamed Sedki El- Hamrawy	IRH	_____	مدرس مساعد
24	Eng. Reham Mohsen Ezz-El Din Ahmed	IRH	_____	مدرس مساعد
25	Eng. Ali Atef Yousef Ali	IRH	_____	مدرس مساعد
26	Eng. Mohamed Ibrahim Ibrahim El-Gamal	IRH	_____	مدرس مساعد
27	Eng. Mohamed Mahmoud Farag Rezk El-Sharabasy	IRH	_____	مدرس مساعد
28	Eng. Mohamed Esmail Esmail Ahmed	IRH	_____	مدرس مساعد
29	Eng. Mahmoud Adel Mahmoud Moustafa El-Ashry	IRH	_____	مدرس مساعد
30	Eng. Ahmed Mohamed Khaled Abo- El Ezz	IRH	_____	معيد
31	Eng.Sabry Mohamed Hasanin Ahmed Fouda	IRH	_____	معيد
32	Eng. Kareem Adel Ahemd Nasar	IRH	_____	معيد
33	Eng. Mahmoud Mohamed Abd-El Meniem Shehata	IRH	_____	معيد
34	Eng. Amr Abaas Mohamed Esmail El-Zohiry	IRH	_____	معيد
35	Eng. Manal Hamed Shaker Hassan Hassan Askar	IRH	_____	معيد
36	Eng. Mahmoud Ibrahim Saad Ibrahim Khalil	IRH	_____	معيد
37	Eng. Mahmoud El-Sayed Abd- El Maaboud	IRH	_____	معيد
38	Eng- Ahmed Abd-El Rehim Mohamed El-sayed El- Adawy	IRH	_____	معيد
39	Eng- Mohamed Ahemd Wahba	IRH	_____	معيد
40	Eng- Ahmed El-Sayed Mostafa Sakr	IRH	_____	معيد

Appendix 2

Internal Reviewers

Report

Appendix 3
External Reviewers
Report

Appendix 4

**Account of
appreciation and rules
easing the monitoring
committees grades**

وزير التعليم العالي والدولة للبحث العلمي ورئيس المجلس الأعلى للجامعات.

- بعد الإطلاع على القانون رقم (٤٩) لسنة ١٩٧٢ فى شأن تنظيم الجامعات والقوانين المعدلة له .
- **وعلى قرار رئيس الجمهورية رقم (٨٠٩) لسنة ١٩٧٥ بإصدار اللائحة التنفيذية لقانون تنظيم الجامعات والقرارات المعدلة له .**
- وعلى القرار الوزارى رقم (٦١٣) بتاريخ ١٩٩٧/٦/١٠ بشأن إصدار اللائحة الداخلية لكلية الهندسة جامعة المنصورة والقرارات المعدلة له .
- وعلى موافقة مجلس جامعة المنصورة بجلسته بتاريخ ٢٠٠٤/٥/٣١، ٢٠٠٤/٩/٢٨ .
- وعلى موافقة لجنة قطاع الدراسات الهندسية بجلستها بتاريخ ٢٠٠٤/٧/٢٩ .
- وعلى قرار المجلس الأعلى للجامعات بجلستها بتاريخ ١٩٩٨/٩/١٠ تفويض السيد الأستاذ الدكتور / وزير التعليم العالي والدولة للبحث العلمي ورئيس المجلس الأعلى للجامعات فى الموافقة على إصدار اللوائح الداخلية للكليات والمعاهد الجامعية وتعديلاتها .

قرر

المادة الأولى

يعمل باللائحة الداخلية المرفقة والخاصة بكلية الهندسة – جامعة المنصورة ويلغى كل نص يخالف أحكامها .

المادة الثانية

على جميع الجهات المختصة تنفيذ هذا القرار .

وزير التعليم العالي
والدولة للبحث العلمي

أ.د/ عمرو عزت سلامة

الباب الثانى

الدراسة للبكالوريوس

مادة ٣: يمنح الطالب درجة البكالوريوس فى الهندسة فى أحد التخصصات الهندسية الآتية: هندسة الإلكترونيات والاتصالات

وذلك بعد اجتياز الامتحانات فى المقررات الدراسية المنصوص عليها فى الباب الرابع من هذه اللائحة بنجاح.

مادة ٤: يقيد الطلاب لدرجة بكالوريوس الهندسة فى إحدى الشعب العلمية إذا كان الطالب

حاصلا على شهادة الثانوية العامة أو ما يعادلها، وفقا للمادة (٧٥) من قانون تنظيم الجامعات.

مادة ٥: الدراسة بأقسام الكلية أربع سنوات ، تسبقها سنة إعدادية لجميع الطلاب وتقسم السنة الدراسية إلى فصلين ينتهي كل منهما بامتحان وذلك طبقا لما هو وارد بجداول المقررات الدراسية الملحقه بهذه اللائحة.

مادة ٦: يدرس الطالب المقررات الموزعة على الفصول الدراسية والواردة فى جداول المقررات الدراسية بالباب الرابع من هذه اللائحة والموضح بها الساعات المخصصة للمحاضرات والتمارين النظرية والعملية، والنهايات العظمى للدرجات موزعة على أعمال الفصل، والاختبارات العملية أو الشفهية والامتحان التحريرى آخر الفصل الدراسى وعدد ساعات الامتحان النهائى ، ويقرر مجلس الكلية المحتوى العلمى لكل مقرر من مقررات الدراسة بعد تطويره بواسطة مجالس الأقسام العلمية المختصة طبقا للمادة (٤١) من قانون تنظيم الجامعات.

مادة ٧: يجوز إعفاء الطالب من حضور بعض المقررات الدراسية عدا مقررات الفرقة الثالثة والرابعة إذا ثبت أنه حضر مقررات دراسية تعادلها بالكلية أو فى كلية جامعية أو معهد علمى معترفا به، ويكون الإعفاء بقرار من رئيس الجامعة بعد موافقة مجلس شئون التعليم والطلاب بناء على اقتراح مجلس الكلية بعد أخذ رأى مجلس القسم العلمى المختص، وذلك وفقا للمادة (١٧٠) من قانون تنظيم الجامعات.

مادة ٨: يؤدى الطالب امتحانا فى نهاية كل فصل دراسى طبقا لجداول المقررات الدراسية بالباب الرابع من هذه اللائحة.

مادة ٩: يحرم الطالب من التقدم لأداء الامتحان فى كل أو بعض المقررات بقرار من مجلس الكلية بناء على طلب مجالس الأقسام العلمية المختصة وذلك إذا كانت مواظبته فى حضور المحاضرات والتمارين تقل عن ٧٥% من مجموع الساعات الفعلية

ويعتبر الطالب في هذه الحالة راسبا في المقررات التي حرم من التقدم لأداء الامتحان فيها إلا إذا قدم عذرا يقبله مجلس الكلية فيعتبر غانبا بعذر مقبول.

مادة ١٠ : تشمل درجات الطالب في المقررات التي تتضمن امتحانا تحريريا وشفهيا و / أو عمليا مجموع الدرجات التي يحصل عليها في الامتحان التحريري والشفهي و / أو العملي بالإضافة إلى أعمال الفصل كما هو وارد في جداول المقررات الدراسية، ويعتبر الطالب الذي لم يؤد الامتحان التحريري في نهاية الفصل في أحد المقررات غانبا بدون عذر في هذا المقرر ويصبح راسبا، إلا إذا قدم عذرا مقبولا فيعتبر غانبا بعذر مقبول.

مادة ١١ : يقدر نجاح الطالب في المقررات وفي التقدير العام بأحد التقديرات الآتية:

ممتاز	من ٨٥% إلى	١٠٠%	من النهاية العظمى للدرجات
جيد جدا	من ٧٥% إلى أقل من	٨٥%	من النهاية العظمى للدرجات
جيد"	من ٦٥% إلى أقل من	٧٥%	من النهاية العظمى للدرجات
مقبول	من ٥٠% إلى أقل من	٦٥%	من النهاية العظمى للدرجات

ويكون الطالب راسبا في المقررات إذا حصل على أقل من ٥٠% من النهاية العظمى لمجموع درجات المقرر وذلك على النحو التالي:

ضعيف	من ٣٠% إلى	أقل من ٥٠%	من النهاية العظمى للدرجات
ضعيف جدا	أقل من ٣٠%		من النهاية العظمى للدرجات

ولا يزيد تقدير الطالب على مقبول في المقرر الذي سبق إن رسب فيه أو تغيب عنه بغير عذر مقبول.

مادة ١٢ : ١ - ينقل الطالب من الفرقة المقيد بها إلى الفرقة التي تليها إذا نجح في جميع

المقررات أو كان راسبا فيما لا يزيد عن مقررين من مقررات جميع الفصول الدراسية السابقة للفرقة المنقول إليها وتعتبر المادة المتصلة مقرا واحدا.

ب - بالإضافة إلى المقرر المشار إليهما في الفقرة السابقة يسمح للطالب الراسب في مقرر إضافي ثالث في الإنسانيات بالنقل إلى الفرقة التالية، على أن يؤدي الطالب الامتحان في مواد التخلف طبقا للنظام الذي يضعه مجلس الكلية.

ج - الطالب الراسب في مادة متصلة يعيد الامتحان في المادة كلها.

مادة ١٣ : يقوم طلاب الفرقة الرابعة بإعداد مشروع بكالوريوس فى موضوعات معينة تحددها

مجالس الأقسام العلمية المختصة وذلك خلال العام الدراسى، ثم تخصص للمشروع فترة لا تقل عن أربعة أسابيع تبدأ عقب الانتهاء من الامتحان التحريرى وتكون تحت إشراف أعضاء هيئة التدريس طبقاً للائحة التنفيذية الداخلية يعدها مجلس الكلية بناء على توصيات مجالس الأقسام العلمية المختصة لتنظيم إعداد المشاريع والإشراف عليها ومناقشتها.

مادة ١٤ : يعقد امتحان دور ثان فى شهر أكتوبر لطلاب الفرقة الرابعة الراسبين أو الغائبين فيما

لا يزيد عن مقررین بالإضافة إلى أحد مقررات الإنسانيات الراسبين فيها، باستثناء مشروع البكالوريوس حيث يصبح الطالب الراسب فيه باقى للإعادة.

مادة ١٥ : يخصص لطلاب الفرقة الثالثة والفرقة الرابعة فى جميع الشعب رحلات علمية تحت

إشراف أعضاء هيئة التدريس لزيارة الأماكن الوثيقة الصلة بالدراسة والمشروع ، وذلك طبقاً للنظام الذى يقرره مجلس الكلية بناء على توصيات الأقسام العلمية المختصة.

مادة ١٦ : تشمل الدراسة نظاماً للتدريب لمدة أربعة أسابيع خلال العطلة الصيفية تحت إشراف

أعضاء هيئة التدريس للطلاب المنقولين إلى الفرقة الثانية والفرقة الثالثة والفرقة الرابعة وذلك على النحو الآتى:

تدريب مهنى: يودى الطلاب المنقولين إلى الفرقة الثانية تدريباً مهنياً داخل الكلية أو فى مراكز التدريب المتخصصة.

تدريب ميدانى : يودى الطلاب المنقولين إلى الفرقة الثالثة والطلاب المنقولين إلى الفرقة والرابعة تدريباً ميدانياً داخل القطاعات المتخصصة.

ويجوز تدريب الطلاب خارج الجمهورية بناء على موافقة مجلس القسم العلمى المختص.

ولا يحصل الطالب على شهادة البكالوريوس إلا إذا أدى بنجاح كلا من التدريبين المهنى والميدانى.

ويصدر مجلس الجامعة اللائحة التنفيذية الخاصة بتدريب الطلاب وذلك بناء على توصيات مجالس الأقسام العلمية المختصة واقتراح مجلس الكلية وموافقة مجلس شئون التعليم والطلاب.

الباب الثالث

الأحكام الانتقالية

مادة ١٧ : تطبيق اللانحة بالتتابع ابتداء من العام الجامعي التالي لإقرارها على جميع الطلاب المقيدين بالفرقة الإعدادية المستجدين والباقيين للإعادة فيها ويستمر العمل باللانحة السابقة الصادرة بالقرار الوزاري رقم ٦١٣ لعام ١٩٩٧ وتعديلاتها على باقي الطلاب المقيدين بالكلية لحين انتهاء دراستهم بها.