



Civil Engineering Department B.Sc. Program Specifications

A. Basic Information

1. Program Title: Civil Engineering
2. Program Type: Single Double Multiple
3. Department(s) Offering the Program: Civil Engineering Department of Nahda University
4. Coordinator: Prof. Dr. Liala Mahmoud, Head of Civil Engineering Department
5. External Evaluator:
Prof. Dr. XXXXX
6. Program commencement: 2012-2013

B. Professional Information

1. Program Aims

Civil Engineering is a traditionally vital profession for the development, construction and maintenance of the society infrastructure, the growth of its resources, and the sustainability of a better and safer environment for future generations. It embraces various technical areas including structural engineering, materials engineering, construction engineering, geotechnical engineering, environmental engineering, water and irrigation engineering, highway and transportation engineering. Accordingly, civil engineering graduates can apply for diverse jobs in government, public and private practice.

The mission of the Civil Engineering Program based on the credit hours system at the Faculty of Engineering, Nahda University, is to provide a high-quality education in Civil Engineering according to the quality assurance standards that motivates students to become creative and prepares the graduates with professional skills and work ethics to excel among their peers, contribute to the technological developments, and show leadership skills for developing and maintaining the infrastructure and environment of the country and abroad.

Accordingly, the educational objectives of the Civil Engineering Program aim to prepare graduates who are able to:

1. Function effectively as a member of a multidisciplinary team in the work environment, and Apply standards of professional and ethical responsibility
2. Solve complex problems with uncertainties of loading, materials, and capacity in different technical areas of civil engineering by selecting and applying proper concepts, and techniques of mathematics and sciences, and modern technologies and tools
3. Design and Construct civil structures and sustainable systems using codes of practice to meet desired needs, and Analyze their impact on the economy, environment, and society
4. Conduct experiments in several technical areas of civil engineering, Report and Analyze the resulting data

5. Organize and Manage engineering and construction projects, and Demonstrate the ability to evaluate different alternatives and systems
6. Deliver professional communications in an effective way, Illustrate leadership skills to direct the efforts of a group, and Demonstrate the incorporation of humanities and social sciences knowledge into the professional practice of civil engineering
7. Identify the necessity for career development through life-long learning, professional seminars and licensure

2. Intended Learning Outcomes (ILOs)

a. Knowledge and Understanding

- a1. Explain key concepts, laws, and problem-solving processes in mathematics and basic sciences.
- a2. Explain key concepts from several areas of humanities and social sciences, and Identify their relationship to civil engineering problems
- a3. Discuss key concepts and problem-solving techniques in different engineering disciplines, and Identify their relationship to civil engineering problems
- a4. Discuss key concepts and problem-solving techniques in materials science, solid mechanics, and fluid mechanics within the context of civil engineering
- a5. Explain key concepts, problem formulation, and problem-solving techniques and tools in several technical areas of civil engineering, and Identify related new technologies
- a6. Describe the design process of engineering systems and structures, and Explain how constraints and uncertainties affect the design and safety
- a7. Describe the purpose, procedures, equipment, and practical applications of experiments in several technical areas of civil engineering
- a8. Explain key concepts, problem formulation, and problem-solving techniques and tools in at least one specialized and/or emerging area of civil engineering
- a9. Explain key aspects and principles of construction and project management
- a10. Discuss the ethical responsibilities, attitudes, global issues, and professional practice standards of a civil engineer, and Explain the influence of engineering solutions on the economy, environment, political landscape, and society
- a11. Explain key aspects of sustainability related to engineering works, the influence of historical and contemporary issues on the formulation and solution of engineering problems, and the use of CAD and information technology in engineering
- a12. Describe characteristics of effective communications, principles of leadership, factors affecting teamwork, and the necessity for lifelong learning

b. Intellectual Skills

- b1. Select proper mathematical methods, numerical techniques, computer models, modern technology, software packages and tools for solving problems in several technical areas of civil engineering
- b2. Select appropriate construction materials, design criteria from codes of practice, types of loadings and civil engineering components, systems, and structures to satisfy the needs of society, industry, economy and environment

- b3. Demonstrate analytical, systematic and creative thinking for solving engineering problems and designing civil systems and structures, even based on limited and possibly imprecise data
- b4. Evaluate different ideas, resources, techniques and strategies for solving civil engineering problems, and Assess the characteristics and performance of components, systems and processes
- b5. Evaluate project management techniques, and Judge engineering decisions based on costs, benefits, safety, quality, reliability, and environmental impact
- b6. Detect the failure of civil engineering components, systems, processes, and structures

c. Professional and Practical Skills

- c1. Analyze and Solve problems in mathematics and basic sciences relevant to engineering practice, and Apply the principles of probability and statistics
- c2. Incorporate humanities and social sciences knowledge into the professional practice of civil engineering
- c3. Solve problems in different engineering disciplines
- c4. Analyze and Solve problems pertinent to civil engineering in materials science, solid mechanics and fluid mechanics
- c5. Analyze and Solve complex problems in several technical areas of civil engineering by selecting and applying proper analytical and numerical techniques, modern technology, software packages and tools
- c6. Design and Construct structures and engineering systems by applying standard codes of practice and satisfying constraints related to economy, environment, safety, aesthetics, sustainability, social and global context
- c7. Conduct experiments using lab and field equipments in several technical areas of civil engineering, Report and Analyze the resulting data
- c8. Analyze and Solve problems in at least one specialized and/or emerging area of civil engineering by selecting and applying proper analytical and numerical techniques, modern technology, software packages and tools
- c9. Organize and Manage engineering and construction projects by evaluating different alternatives and systems, composing project documents and schedules, and applying quality assurance procedures
- c10. Analyze loading and capacity and their uncertainties for safe civil structures and systems, and Examine appropriate steps to manage elements of risk
- c11. Prepare technical drawings both manually and using CAD, and Prepare technical reports and calculation notebooks in several technical areas of civil engineering
- c12. Analyze a situation involving conflicting professional and ethical interests, and Exchange technical knowledge and skills to engineering community and industry

d. General and Transferable Skills

- d1. Function effectively as a member of a multidisciplinary team
- d2. Deliver effective communications
- d3. Apply leadership skills to direct the efforts of a group

- d4. Demonstrate the ability for self-directed learning and entrepreneurial skills
- d5. Apply information technology tools to search for information and relevant literature
- d6. Demonstrate the ability to manage work environment, time, tasks, resources, and constraints

3. Academic Standards

a. External References for Standards (Benchmarks)

1. National Academic Reference Standards (NARS) for Engineering, National Authority for Quality Assurance and Accreditation of Education (NAQAA), 2nd ed., 2009
2. Civil Engineering Body of Knowledge for the 21st Century, American Society of Civil Engineers (ASCE), 2nd ed., 2008
3. Criteria for Accrediting Engineering Programs, Accreditation Board for Engineering and Technology (ABET), 2016

b. Comparison of Provision to External References of NARS

	<i>Knowledge and Understanding</i>											
Program	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12
NARS	a	g, i	e	c	e	d	-	h	-	f, k	b, l	j
<i>NARS Characterization of Civil Engineering</i>	-	-	-	b	a	-	-	a	c	-	-	-

	<i>Intellectual Skills</i>					
Program	b1	b2	b3	b4	b5	b6
NARS	a, h, k	j	b, c, g, l	d, e	i	f
<i>NARS Characterization of Civil Engineering</i>	-	a, b, c	-	e	d	-

	<i>Professional and Practical Skills</i>											
Program	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10	c11	c12
NARS	a	-	a, b	b, f	f, g	b, c, d	e	f, g	i, j	h	l	k
<i>NARS Characterization of Civil Engineering</i>	-	-	-	-	d	f	a, b	-	c	-	c, e	-

	<i>General and Transferable Skills</i>					
Program	d1	d2	d3	d4	d5	d6
NARS	a	c	e	g, h	d, g, i	b, f

4. Curriculum Structure and Contents

a. Program duration

10 main semesters, equivalent to 5 years (program can be completed in 9 main semesters)

b. Program structure

1. No. of total credit hours = 180 credit hours detailed as follows

	Sem-1	Sem-2	Sem-3	Sem-4	Sem-5	Sem-6	Sem-7	Sem-8	Sem-9	Sem-10
Total	18	18	19	18	17	19*	18**	19	17	17
Compulsory	18	18	17	14	13	17*	16**	11	2	9
Elective	-	-	2	4	4	2	2	8	15	8

	Sem-1	Sem-2	Sem-3	Sem-4	Sem-5	Sem-6	Sem-7	Sem-8	Sem-9	Sem-10
University	1	4	6	1	-	2	-	-	-	-
Univ-Free-Elec	-	-	-	2	2	-	-	-	-	2
Faculty Compulsory	17	14	2	1	2	3	-	2	2	-
Fac-Elec-A	-	-	-	-	-	-	2	-	2	2
Fac -Elec-B	-	-	-	-	-	-	2	4	-	-
Fac -Elect-C	-	-	-	2	2	-	2	-	-	-
Civil	-	-	17	12	9	11	12	6	-	3
Civil-Elect	-	-	-	-	-	-	-	6	9	6
Field Training	-	-	-	-	-	1	1	-	-	-
Grad Project	-	-	-	-	-	-	-	-	-	6

2. No. of total credit hours of mathematics and basic sciences courses = 44 (24.4%)

3. No. of total credit hours of social sciences and humanities courses = 35 (19.4%)

4. No. of total credit hours of civil engineering major courses = 78 (43.3%)

5. No. of total credit hours of civil engineering specialized courses = 21 (11.7%)

6. No. of total credit hours of Practical/Field Training courses = 2 (1.1%)

- Field Training-1 after student completes sophomore (2nd) level*

- Field Training-2 after student completes junior (3rd) level**

7. Program levels = 5

- Freshman (1st) level, up to 36 credit hours

- Sophomore (2nd) level, from 36 up to 72 credit hours

- Junior (3rd) level, from 72 up to 108 credit hours

- Senior-1 (4th) level, from 108 up to 144 credit hours

- Senior-2 (5th) level, from 144 up to 180 credit hours

University Compulsory Courses (14 credit hours)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
ENG 111	English-1	1	1	-	-	-	لغة إنجليزية-1
ENG 112	English-2	1	1	-	-	ENG 111	لغة إنجليزية-2
ENG 113	English-3	2	2	-	-	ENG 112	لغة إنجليزية-3
HUM 101	Human Rights	3	3	-	-	-	حقوق الإنسان
REM 101	Scientific Thinking	3	3	-	-	-	التفكير العلمي
ETS 101	Professional Ethics	1	1	-	-	-	أخلاقيات المهنة
MGT 101	Principles of General Management	3	3	-	-	-	مبادئ الإدارة

University Free Electives (6 credit hours)

Student freely selects 3 new courses (2 credit hours each) from all university, college or discipline courses

Engineering Compulsory Courses (45 credit hours)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
MTH 111	Mathematics 1	3	2	2	-	-	رياضيات 1
MTH 121	Mathematics 2	3	2	2	-	MTH 111	رياضيات 2
STA 321	Statistics & Probability Theory	3	2	2	-	-	احصاء ونظرية احتمالات
PHY 112	Physics 1	3	2	1	2	-	فيزياء 1
PHY 122	Physics 2	3	2	1	2	PHY 112	فيزياء 2
MEC 113	Mechanics-1	3	2	2	-	-	ميكانيكا-1
MEC 126	Mechanics-2	3	2	2	-	MEC 113	ميكانيكا-2
CHE 123	Engineering Chemistry	3	2	1	2	-	كيمياء هندسية
CSK 116	Computer Skills	3	2	-	2	-	مهارات الحاسب الآلي
EVI 412	Environmental Impact of Projects	2	2	-	-	-	الأثر البيئي للمشروعات
DRW 114	Engineering Drawing & Projection-1	2	1	3	-	-	الرسم الهندسي والإسقاط-1
DRW 124	Engineering Drawing & Projection-2	2	1	-	3	DRW 114	الرسم الهندسي والإسقاط-2
HET 115	History of Engineering & Technology	1	1	-	-	-	تاريخ الهندسة والتكنولوجيا
MAN 125	Principles of Manufacturing	2	1	1	1	-	مبادئ هندسة التصنيع
PRM 512	Project Management	2	2	1	-	-	إدارة مشروعات
QCS 226	Monitoring & Quality Control Systems	1	1	-	-	-	نظم المراقبة وضبط الجودة
IEN 351	Engineering Economics	2	2	1	-	-	اقتصاد هندسي
TRW 215	Technical Report Writing	2	1	2	-	ENG112	إعداد التقارير الفنية
FTR 329	Field Training 1	1	-	-	6	-	تدريب ميداني 1
FTR 429	Field Training 2	1	-	-	6	-	تدريب ميداني 2

Faculty Elective Courses A (6 credit hours)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
HUM 112	Music Appreciation	2	2	-	-	-	التذوق الموسيقي
HUM 113	Introduction to the History of Electrical izations	2	2	-	-	-	مقدمة فى تاريخ الحضارات
HUM 114	Trends In Contemporary Arts	2	2	-	-	-	الاتجاهات الفنية المعاصرة
HUM 115	Recent Egypt's History	2	2	-	-	-	تاريخ مصر الحديث
HUM 116	Heritage of Egyptian Literature	2	2	-	-	-	التراث الادبي المصري
HUM 117	Arab &Islamic Electrical ization	2	2	-	-	-	الحضارة العربية والإسلامية
HUM 118	Literary Appreciation	2	2	-	-	-	التذوق الأدبي

Faculty Elective Courses B (6 credit hours)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
ARB 111	Arabic Language	2	2	-	-	-	اللغة العربية
CPS 112	Communication & Presentation Skills	2	1	2	-	-	مهارات الاتصال والعرض
RES 113	Analysis & Research Skills	2	1	2	-	-	مهارات البحث والتحليل
NGO 114	Principles of Negotiation	2	2	-	-	-	مبادئ التفاوض
ACC 115	Introduction to Accounting	2	2	-	-	-	مقدمة في المحاسبة
BUS 116	Business Administration	2	2	-	-	-	إدارة الأعمال

Faculty Elective Courses C (6 credit hours)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
CIV 211	Principles of Construction & Building Engineering	2	2	1	-	-	مبادئ هندسة التشييد والبناء
ARC 212	Arts & Architecture	2	2	1	-	-	الفنون والعمارة
ELP 213	Principles of Electrical Engineering	2	2	1	-	-	مبادئ الهندسة الكهربائية
ELE 214	Principles of Electronic Engineering	2	2	1	-	PHY 122	مبادئ الهندسة الإلكترونية
MED 215	Principles of Design & Manufacturing Engineering	2	2	1	-	-	مبادئ هندسة التصميم والتصنيع
MEP 216	Principles of Mechanical Power Eng	2	2	1	-	-	مبادئ هندسة القوي الميكانيكية

Civil Engineering Compulsory Courses - Major (61 credit hours)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
MTH 211	Mathematics 3	3	2	2	-	MTH 121	رياضيات 3
MTH 311	Mathematics 4	3	2	2	-	MTH 211	رياضيات 4
SDM 212	Mechanics of Solids	3	2	2	-	-	ميكانيكا الجوامد
STR 213	Structural Analysis 1	3	2	2	-	-	تحليل انشائي 1
STR 223	Structural Analysis 2	3	2	2	-	STR 213	تحليل انشائي 2
STR 323	Structural Analysis 3	3	2	2	-	STR 223	تحليل انشائي 3
DCS 313	Design of Concrete Structures 1	3	2	2	-	STR 213	تصميم المنشآت الخرسانية 1
DCS 413	Design of Concrete Structures 2	3	2	2	-	DCS 313 STR 223	تصميم المنشآت الخرسانية 2
DST 321	Design of Steel Structures 1	3	2	2	-	STR 213	تصميم المنشآت المعدنية 1
DST 421	Design of Steel Structures 2	3	2	2	-	DST 321 STR 223	تصميم المنشآت المعدنية 2
BMT 227	Behavior of Materials	3	2	-	3	-	خواص مواد
CCT 314	Concrete Technology	3	2	-	2	BMT 227	تكنولوجيا الخرسانة
GEO 215	Geology	2	2	1	-	-	جيولوجيا
SOM 322	Soil Mechanics	3	2	-	2	GEO 215	ميكانيكا التربة
FDE 412	Foundation Engineering 1	3	2	2	-	DCS 313 SOM 322	هندسة الاساسات 1
CPM 511	Management of Construction Projects	3	2	2	-	-	ادارة مشروعات التشييد
CDR 214	Civil Drawing	3	1	4	-	-	رسم مدني
SRV 222	Engineering Surveying	3	2	-	2	-	المساحة الهندسية
HYD 315	Hydraulics	3	2	-	2	-	هيدروليكا
HDR 324	Hydrology	2	2	1	-	-	هيدرولوجيا
BLD 215	Building Construction 1	3	1	4	-	-	انشاء معماري 1

Civil Engineering Compulsory Courses - Minor (9 credit hours)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
IRR 421	Irrigation Network Engineering	3	2	2	-	HYD 315 HDR 324	هندسة شبكات الري
ENV 414	Environmental Engineering	3	2	2	-	-	هندسة البيئة
HWY 423	Highway Engineering	3	2	2	-	-	هندسة الطرق السريعة

Civil Engineering Elective Courses (21 credit hours; CVL-Elc-1 to 7)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
DWB 417	Design of Wall Bearing Structures	3	2	2	-	DCS 313	تصميم منشآت حاملة للحوائط
RST 424	Repair & Strengthening of Structures	3	2	2	-	DCS 313 CCT 314	ترميم وتدعيم المنشآت
FDE 512	Foundation Engineering 2	3	2	2	-	FDE 422	هندسة الأساسات 2
DSR 513	Structural Dynamics	3	2	2	-	STR 323	ديناميكا المنشآت
DCS 514	Design of Concrete Structures 3	3	2	2	-	DCS 413	تصميم المنشآت الخرسانية 3
DBR 515	Design of Bridges	3	2	2	-	DST 421 DCS 413	تصميم الكبارى
HRB 516	High Rise Buildings	3	2	2	-	DCS 413 DST 321	المباني العالية
CNE 518	Construction Engineering	3	2	2	-	-	هندسة التشييد
DIS 418	Design of Irrigation Structures	3	2	2	-	DCS 313 HYD315	تصميم منشآت الري
GIS 419	Maps, GIS & Remote Sensing	3	2	2	-	SRV 222	الخرائط ونظم المعلومات الجغرافية والاستشعار عن بعد
SAN 425	Sanitary Engineering	3	2	2	-	-	الهندسة الصحية
TRN 523	Transportation Engineering	3	2	2	-	-	هندسة النقل
HRB 524	Harbor Engineering	3	2	2	-	FDE 422	هندسة الموانئ

Civil Engineering Graduation Project (6 credit hours)

Code	Course Title	CrH	LC	TE	TL	Prerequisites	اسم المقرر بالعربية
PRJ 525	Bachelor Project - Structural Engineering	6	1	10	-	Department Approval + CGPA \geq 2.0	مشروع البكالوريوس - الهندسة الإنشائية
PRJ 526	Bachelor Project - Public Works	6	1	10	-	Department Approval + CGPA \geq 2.0	مشروع البكالوريوس - أشغال عامة

Civil Engineering Program Course - ILOs Matrix

Code	Knowledge and Understanding												Intellectual Skills						Practical and Professional Skills												General Skills									
	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	b1	b2	b3	b4	b5	b6	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10	c11	c12	d1	d2	d3	d4	d5	d6				
MTH 111	X												X					X																						
MTH 121	X												X						X																					
PHY 112	X						X												X																					
PHY 122	X						X												X																					
MEC 113	X																		X																					
MEC 126	X																		X																					
DRW 114												X																												
DRW 124												X																												
CHE 123	X						X												X																					
MAN 125						X					X						X																							
CSK 116			X								X		X					X																					X	
HET 115										X	X																												X	
TRW 215												X														X			X	X	X							X		
QCS 226						X				X						X											X													
STA 321	X												X						X																					
IEN 351		X																	X									X												
EVI 412										X						X																						X		
PRM 512								X	X		X					X										X										X		X		
FTR 329											X																								X	X	X	X	X	
FTR 429								X																											X	X	X	X	X	X
Eng-Elc-A1			X																	X																	X			
Eng-Elc-A2			X																	X																		X		
Eng-Elc-A3			X																	X																		X		

Code	Knowledge and Understanding												Intellectual Skills						Practical and Professional Skills												General Skills								
	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	a12	b1	b2	b3	b4	b5	b6	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10	c11	c12	d1	d2	d3	d4	d5	d6			
MTH 211	X												X					X																					
MTH 311	X												X					X																					
SDM 212				X																	X																		
STR 213					X								X										X																
STR 223					X								X										X																
STR 323					X								X										X																
DCS 313					X	X							X	X								X	X																
DCS 413					X	X							X	X			X					X	X																
DST 321					X	X							X									X	X																
DST 421					X	X							X	X			X					X	X																
BMT 227				X			X						X	X							X			X															
CCT 314				X			X						X									X			X														
GEO 215	X																				X																		
SOM 322					X		X						X	X								X		X															
FDE 412					X	X							X	X			X					X	X																
CPM 511									X			X				X											X						X						
CDR 214											X																			X									
SRV 222					X		X						X	X								X		X															
HYD 315				X	X		X						X									X	X		X														
HDR 324	X										X										X																		
BLD 215			X								X											X																	
IRR 421					X	X							X									X	X																
ENV 414					X					X			X									X	X																
HWY 423					X	X							X	X								X	X																
CVL-Elc-1					X		X						X	X	X	X						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CVL-Elc-2					X		X						X	X	X	X						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CVL-Elc-3					X		X						X	X	X	X						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CVL-Elc-4					X		X						X	X	X	X						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CVL-Elc-5					X		X						X	X	X	X						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CVL-Elc-6					X		X						X	X	X	X						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CVL-Elc-7					X		X						X	X	X	X						X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PRJ 525/526													X	X	X	X						X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ENG 111	X																				X																		
ENG 112	X																				X																		
ENG 113	X																				X																		
HUM 101	X																				X																		
REM 101	X													X							X																		
ETS 101	X									X											X																X		
MGT 101	X																				X																		
Uni-Elc-A1	X																				X																		
Uni-Elc-A2	X																				X																		
Uni-Elc-A3	X																				X																		
Uni-Elc-B1	X																				X													X		X			
Uni-Elc-B2	X																				X													X		X			
Uni-Elc-B3	X																				X												X		X				
Uni-Free-Elc-1	X																				X																		
Uni-Free-Elc-2	X																				X																		
Uni-Free-Elc-3	X																				X																		



6. Program Admission Requirements

See Bylaws and Study Regulations, Section 3, Articles 15 -20

7. Regulations for Progression and Program Completion

See Bylaws and Study Regulations, Sections 2 - 5

8. Evaluation of Program Intended Learning Outcomes

Evaluator	Tool	Sample
1- Senior students 2- Alumni 3- Stakeholders (Employers)	1. Survey 2. Personal meeting	
4-External Evaluator(s) (External Examiner(s))	1. Review academic regulations 2. Review course specifications & reports 3. Review course files 4. Meet with course coordinators 5. Meet with students 6. Examine resources 7. Meet with administration 8. Prepare an evaluation report	

Annex-1: Course Specifications

Coordinator: Prof. Dr. Liala Mahmoud, Head of Civil Engineering Department

Signature:

Date: