جامعة المستقبل

كلية الهندسة والتكنولوجيا

لجنة التدريب الميداني

كتيب التدريب العملي

المحتويات

أولا: شروط وضوابط التدريب العملي

شروط وضوابط التدريب العملي

المادة (1): التدريب العملي إجباري

يتم تفعيل التدريب العملي لطلاب الكلية بدءاً من طلاب 2017xxxx بحيث يكون اجتيازه بنجاح شرطا من شروط التخرج، ويكون تقييمه كوحدة تعليمية (نجاح/رسوب) دون وجود تقدير.

المادة (2): مدة التدريب العملي

ينقسم التدريب العملي إلى ثلاث وحدات تدريبية كل وحدة مدتها 80 ساعة اتصال، بإجمالي 240 ساعة، ويجوز إنجاز وحدتين تدريبيتين بحد أقصى خلال فصل صيفي واحد مع عدم الإخلال بشرط عدد الساعات المطلوب إنجازها للتسجيل وفق المادة (5).

المادة (3): وقت التدريب العملي

يتم إجراء التدريب العملي خلال فصل الصيف، كما يجوز إجراؤه في فصل الشتاء خلال أجازة نصف العام.

المادة (4): مكان التدريب العملي

يتدرب الطالب في مؤسسة هندسية أو شركة صناعية أو مركز تدريب داخل أو خارج مصر، ويقوم كل قسم علمي بإعداد قوائم للجهات التي يمكن للطالب أن يتدرب بها، ويتم تحديث هذه القوائم سنويا.

المادة (5): التدريب العملي الداخلي

يمكن للطالب إنجاز إحدى وحدات التدريب بحد أقصى داخل الكلية في البرنامج التدريبي الذي تعده الكلية لهذا الغرض ومدته 80 ساعة مقسمة على إسبوعين بعد نهاية الفصل الصيفي وقبل بداية العام الدراسي. يكون التدريب خلاله على حزم برمجيات تطبيقية أو تصميم وتنفيذ مشروع عملي أو تنمية مهارات التوظف، ويتخلل هذه الفترة زيارات ميدانية لمواقع مشاريع هندسية أو مصانع أو مؤسسات هندسية لا تقل عن زيارتين.

المادة (6): شرط التسجيل بالتدريب العملي

يمكن للطالب التسجيل في إحدى وحدات التدريب بعد إنجازه عددا من الساعات المعتمدة كما يلي:

وحدة التدريب العملي	PT-1	PT-2	PT-3
عدد الساعات المطلوب إنجازها كشرط للتسجيل	60 ساعة	90 ساعة	120 ساعة

المادة (7): توصيف برامج التدريب العملي

تقوم الأقسام العلمية بوضع توصيف للتدريب العملي باعتباره وحدة تعليمية مشابهة للمقرر التدريسي، ويشمل التوصيف أهداف البرنامج التدريبي ونواتج التعلم المستهدفة منه ودورها في تحقيق نواتج التعلم المستهدفة للبرنامج التعليمي، ومحتويات البرنامج سواء كان تدريباً داخل الكلية أو داخل مؤسسة صناعية.

المادة (8): تقييم التدريب العملي الداخلي

تقيم وحدة التدريب العملي داخل الكلية من 100 درجة تقسم على أجزاء التدريب المختلفة، ويشترط حصول الطالب على 50 درجة على الأقل في إجمالي درجات التقييم لاجتيازه هذه الوحدة التدريبية.

المادة (9): تقييم التدريب العملي الخارجي

تقوم جهة التدريب الخارجية بتقييم أداء الطالب خلال فترة التدريب من 50 درجة تنقسم إلى: 20 درجة على الحضور ، 30 درجة على الأداء العام للطالب، ويشترط حصول الطالب على 25 درجة على الأقل من 50 حتى يمكنه التقدم للقسم العلمي في بداية الفصل الدراسي التالي ليتم تقييمه من القسم، حيث يقوم الطالب بإعداد تقرير علمي عن فترة التدريب ويقوم القسم العلمي بمناقشة الطالب وتقييمه، ويقيم التقرير من 20 درجة ويقيم العرض ومناقشة الطالب من 30 درجة. ويشترط إجتياز الطالب لهذه الوحدة التدريبية حصوله على 25 درجة على الأقل من إجمالي 50 درجة المخصصة لتقييم القسم العلمي.

المادة (10): ضوابط التدريب الداخلي

1- يقوم القسم العلمي بتصميم برنامج تدريبي لمدة اسبوعين. يشمل البرنامج 4 أيام إسبوعيا داخل الكلية (8 ساعات/يوم) بالإضافة إلى زيارة ميدانية كل إسبوع.
2- يقوم القسم العلمي بتوفير الموارد البشرية المطلوبة من أعضاء هيئة التدريس وأعضاء الهيئة معاونة.
3- يقوم القسم العلمي بتحديد الموارد المادية المطلوبة (حاسبات – خامات – معامل – قاعات) ومخاطبة الكلية لتوفيرها.
4- يقوم القائمون على التدريب بتحديد طرق تقييم أداء الطلاب وتطبيقها للوصول إلى التقييم النهائي لكل طالب من 100 درجة.
5- تحتسب ساعات الاتصال لمشاركة كل عضو هيئة تدريس أو هيئة معاونة ضمن الأعباء التدريسية، وتراعى عند توزيع الأحمال مستقبلا.

المادة (11): ضوابط التدريب الخارجي

1- يقوم القسم العلمي بتصميم برنامج تدريبي لمدة اسبوعين = 5 أيام/اسبوع * 8 ساعات/يوم .

2- يقوم القسم العلمي بتحديد الجهات الخارجية التي يمكنها تنفيذ البرنامج المعني، ويتم التواصل معها لتحديد السعة التي تتحملها من المتدربين والتكلفة المناسبة.
3- يوفر كل قسم عددا من فرص التدريب المجانية (10-20% من عدد الطلاب) يتم توزيعها وفق معايير معتمدة من مجلس القسم.
4- يمكن للطالب التواصل مباشرة مع جهات التدريب على أن يحصل على موافقة القسم العلمي على البرنامج التدريبي قبل بدء التدريب.
5- يحدد القسم العلمي المشرفين على التدريب من داخل القسم، ليقوموا بالتواصل مع جهات التدريب للحصول على تقييمهم للطلاب.
6- يقوم القسم العلمي بتقييم الطلاب عن التدريب الخارجي بعد انتهائهم منه.

المادة (12): طرق إعلام الطلاب بضوابط التدريب العملي

1- لوحة الإعلانات
2- شئون الطلاب
3- المرشد الأكاديمي
4- ندوات تعريفية
5- بوابة الطالب على نظام إدارة المعلومات
6- الموقع الإلكتروني للكلية

ثانيا: توصيف برامج التدريب العملي

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FUE - Future University in Egypt

Faculty of Engineering and Technology
Department of Architectural Engineering

Course Specifications

AST 01: Summer Training (Sketch up)

Programme (s) on which the course is given:	B.Sc. in Architectural Engineering
Major or minor element of programmes:	(Not Applicable)
Department offering the programme:	Architectural Engineering
Department offering the course:	Architectural Engineering
Academic year/Level:	Summer Training
Date of specification approval:	March 2018

A- Basic Information

Title: Sketch up **Code:** AST 01
Credit Hours: **3 Cr. Hrs.**
Lectures: **2 Hrs.**
Tutorial: **2 Hrs.**
Total: **4 Hrs.**
Prerequisite:
As Advised

B- Professional Information

1- Catalog Course Description:

Computer as a tool designed for change: Computer aided drafting, Creation and editing of primitives – Accuracy – Organization – 2D and 3D drawing.
Computer aided Design: Modeling, and Visualization. Architectural rendering: Scenes, Materials and mapping. Using Photo editing applications in Architectural rendering.

2- Overall aims of the course:

Upon successful completion of the course, the student should be able to:

- How to model and render 3D objects and scenes using Google SketchUp
- Develop Modeling and representation techniques
- The fundamentals of the application, from navigating the user interface
- Manipulating objects, and building basic shapes, animating a scene, and modeling organic terrain using the Sandbox tools.
- Develop awareness of structures, lighting and form as applied to small Scale buildings and interior scenes.

- Organize work flow that satisfy both functional and aesthetic requirements
- Test different Modeling alternatives.

3- Intended Learning Outcomes (ILOs)

3.1. Program ILOs related to course:

A02 Demonstrate knowledge and understanding of the basics of information and communication technology (ICT).

A08 Demonstrate knowledge and understanding of architectural physical and computer modeling, simulation, rendering and presentation techniques.

B04 Explore and think of design forms in two and three dimensions engaging images of places and time with innovation and creativity.

B06 Select, develop, implement and appraise appropriate ICT tools to a variety of architectural and engineering problems.

C03 Use different expression techniques to visualize ideas verbally and graphically, either manually or digitally.

C06 Use appropriate computer programs in engineering and architectural works.

C07 Build architectural physical and computer models.

D03 Demonstrate efficient IT capabilities.

D05 Manage tasks and resources.

D08 Search for information and adopt life-long self-learning.

3.2. Course Detailed ILOs: (Done by 2018 Instructor)

i. Knowledge and understanding:

a) Demonstrate knowledge and understanding of different modeling software types
b) Define Modeling software problems and how to reach a realistic product
c) Define the principles of new modeling technologies, including the newest applications for rendering, materials and environment creation

ii. Intellectual skills:

a) Develop the design of three dimensional objects and spaces
b) Create architectural designs that integrate social, aesthetic and technical requirements
c) Decide and chose among different Modeling alternatives

iii. Professional and practical skills:

a) Identify data and requirements for modeling a certain building type
b) Use appropriate graphic and modeling techniques for representation
c) Submit professional good looking complete rendered/styled images

iv. General and transferable skills:

a) Communicate effectively with other people using visual, graphic, written and verbal means
b) Work in a self-directed manner
c) Manage time and meet deadlines
d) Analyze problems and use innovative thinking in their solution

e) Use the Internet in searching for information about modeling, import objects and materials

Course Detailed ILOs: (General)

a- Knowledge and understanding:

By the end of this course the student should be able to:

a1. Identify different architectural computer drafting, modeling, rendering, and presentation techniques.

a2. Define Characteristics of raster & vector graphics.

a3. Identify different types of textures and materials.

a4. Identify the different uses of 2D & 3D computer interfaces.

b- Intellectual skills:

By the end of this course the student should be able to:

b1. Visualize graphical forms in two and three dimensions.

b2. Differentiate between raster and vector graphics.

b3. Choose proper tools for modeling, rendering, and presenting architectural projects.

b4. Choose proper blocks, families, textures, and materials.

c- Professional and practical skills:

By the end of this course the student should be able to:

c1. Prepare 2D, 3D, and rendered drawings and presentations.

c2. Use Photoshop software in assigning materials and furniture layers into architectural plans & Elevations.

c3. Build architectural digital models using Revit software.

d- General and transferable skills:

By the end of this course the student should be able to:

d1. Do simple Search for information.

d2. Manage time to meet deadlines.

4- Course ILOs versus Program ILOs relation

See Appendix, table [1]

5- Course Contents:

Session 1	**Introduction** • Installing SketchUp • Starting SketchUp for the first time	**1. Getting to Know the Interface** • Adding toolbars • Navigating • Changing perspective • Walking around • Creating camera views • Shading faces and edges • Creating shadows and fog • Creating Scenes	**Lecture** **2**	**Tut.** **2**
Session 2	**2. Manipulating Objects** • Selecting and moving	**3. Drawing** • Line tool fundamentals	Lecture	Tut.

	objects • Scaling and rotating objects • Manipulating faces and edges • Advanced selection tools	• Refining objects with the Line tool • Using the Rectangle tool • Pushing and pulling faces into 3D • Creating circles and polygons • Creating arcs • Using the Offset tool to create outlines • Using the Follow Me tool • Softening round edges • Creating 3D text •	2	2
Session 3	**4. Working with Components** • The Component window • Creating components • Using the 3D Warehouse	**5. Organizing Scenes** • Grouping objects • Working with layers • Creating layers • Using the Outliner • Hiding and unhiding objects • Locking and unlocking objects	Lecture 2	Tut. 2
Session 4	**6. Working with the Solid Tools** • Creating solids • Using Boolean operations (Union, Intersect, Subtract) • Creating outer shells	**7. Creating Terrain Using Sandbox** • Creating terrain from contours • Modeling objects with contours • Creating terrain from scratch • Sculpting with the Smoove tool	Lecture 2	Tut. 2
Session 5	**8. Rendering and Animating** • Applying styles • Editing styles • Outputting 2D bitmaps • Basic animation	**9. Creating Textures and Materials** • Applying materials • Editing materials • Creating materials • Adjusting materials • Importing floor plans • Modeling with floor plans	Lecture 2	Tut. 2
Session 6	**10. Importing and Exporting** • Importing objects from AutoCAD • Importing other 3D objects • Exporting objects • Exporting objects for rendering	**11. Measuring and Labeling +Dynamic component** • Using the Tape Measure tool • Using the Protractor tool • Creating text labels • Using the Dimension tool • Creating sections	Lecture 2	Tut. 2
Session 7	**12. PLUGINS** • Lofting • Setting loft parameters • Editing a path • Manipulating loft sub-objects • Subdivision Surface Modeling • Understanding subdivision surfaces	• Extruding polygons • Rounding out square corners • Editing edge loops • Shaping the model	Lecture 2	Tut. 2
Session 8	**12. PLUGINS**	• Rendering outputs	Lecture	Tut.

	• Converting Bézier splines to a NURBS object • Creating an offset curve • Creating an extrude surface • drawings on curved surfaces	• External Rendering Software reviews • Smoothing and hardening edges	2	2
		TOTAL : 32 hrs.	**16 hrs.**	**16**

For the relation between the course contents and "Intended Learning Outcomes" (ILOs) see Appendix, table [2]

6- Learning / Teaching Methods:

- 4.1- Lectures
- 4.2- Modeling labs
- 4.3- Modeling assignments
- 4.4- Class discussions and sessions

7- ILOs Teaching & Assessment Method

- **Modeling Designs** to assess the skills of problem solving regarding special modeling problems, presenting and rendering scenes
- **Interior Design Project-based** work to assess the ability of producing a complete interior design that shows knowledge and understanding of different technical, modeling, aesthetic and rendering issues, through a range of lighting and texture Appling techniques.
- **Final Project work** value the importance of hard work, discipline and managing the work flow of a Modeling project to reach a complete well-presented product.

8- Weighting of assessments

- Attendance 10 %
- Participation 10 %
- Assignments (Project) 30 %
- Final Project 50 %
- Total 100 %

Assessment 1 **Project A** (using Basic modeling tools) **Session 3**
Assessment 2 **Final projects** (using Advanced modeling/rendering tools) **Session 7**

9- List of references:

9.1- Course notes

No course notes are required

9.2- Periodicals, Web sites, … etc

- Google 3D Warehouse
- sketchucation.com
- Ruby library depot

10- Facilities required for teaching and learning:

- Computer labs or Design Studios
- E-boards
- Data show for presentations

Course coordinator: **Associate. Prof. Dr. Ashraf Gaafer**
Head of Department: **Prof. Dr. Samir Sadek Hosny**
Date: **November 2017**

Course Instructor: **Arch. Mohamed Mahmoud**

Appendix

Table [1]: Course ILOs/ Program ILOs Matrix

		Program ILOs									
		A02	A08	B04	B06	C03	C06	C07	D03	D05	D08
Course ILOs	a1.		●								
	a2.	●									
	a3.		●								
	a4.		●								
	b1.			●							
	b2.				●						
	b3.			●							
	b4.			●							
	c1.						●	●			
	c2.						●				
	c3.					●	●	●			
	d1.								●	●	
	d2.									●	●

Table [2]: Course Content/ Course ILO Matrix

Topic	a1	a2	a3	a4	b1	b2	b3	b4	c1	c2	c3	d1	d2
Introduction to Computer applications in Architecture.	●						●						
Introduction to AutoCAD	●	●			●	●							
Drawing & Editing Commands in AutoCad				●			●	●	●			●	●
Photoshop 2D Architectural Presentations.	●	●				●		●		●		●	●
Introduction to BIM, & Revit		●					●				●		
3D Drawing & Editing Commands in Revit Software	●		●	●			●	●	●		●	●	●
3D Modelling for a Building (Final Project)			●	●			●	●	●		●	●	●

Table [3]: Learning Method/ILO Matrix

Learning Method	a1	a2	a3	a4	b1	b2	b3	b4	c1	c2	c3	d1	d2
Lecture	●	●	●	●		●		●			●		
Lab Work	●		●	●	●		●	●	●	●	●	●	●

Table [4]: Assessment Method/ILO Matrix

Assessment Method	a1	a2	a3	a4	b1	b2	b3	b4	c1	c2	c3	d1	d2
Assignment	●	●	●	●	●	●	●	●	●	●	●	●	●
Midterm & Final Exam	●	●	●	●	●	●	●	●	●	●	●	●	●

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FUE - Future University in Egypt

Faculty of Engineering and Technology
Department of Electrical Engineering

Course Specifications

PT-1, PT-2, PT-3: Practical Training in Electrical Engineering

Programme(s) on which the course is given:	Electronics & Communication Engineering / Electrical Power Engineering
Major or minor element of programmes:	(Not Applicable)
Department offering the programme:	Electrical Engineering
Department offering the course:	Electrical Engineering
Academic level/ semester:	After Level Two
Date of specification approval:	May 2019

A- Basic Information

Title: Summer Training	**Code: PT-1, PT-2, PT-3**
Credit Hours:	**0 Cr. Hrs.**
Contact Hours:	**80 Hrs.× 3 modules (240 Hrs.)**

B- Professional Information

1- Catalogue Course Description:

Each student who successfully completed the courses of Level Two (or a minimum of 60 Cr. Hrs.) must practice in one or more engineering facilities (inside or outside Egypt) for a total period not less than 240 hours. This training period must be divided over 3 modules (80 hours each) and should be carried out during two or three summer semesters. The student may practice at most one module (80 hours) on-campus offered by the Faculty of Engineering. After completing the practical training, the student should submit report and conduct a presentation to be evaluated by the academic department as an accredited course (1 CH).

Off-Campus Training: Practical field training and/or practical courses in one or more engineering facilities relevant to the Electrical Engineering Programs

On-Campus Training: Engineering applications and/or communication skills courses relevant to Electrical Engineering Programs

2- Overall aims of the course:

The Main Goals of this course are:

- Expose the students to actual working environment

- Identify the responsibilities of engineers in the field
- Develop technical, interpersonal, and personal skills
- Deepen the understanding of electrical engineering fundamentals and theories

3- Intended learning outcomes of course (ILOs):

a- Knowledge and understanding:

By the end of this course the student should be able to:

a1. Recognize the environment and culture of work place in the field electrical engineering

a2. Relate the academic curriculum with practical engineering applications

c- Professional and practical skills:

By the end of this course the student should be able to:

c1. Apply safe systems at work and observe the appropriate steps to manage risks

c2. Apply quality assurance and follow the appropriate codes and standards

c3. Prepare and present technical reports

c4. Apply project management skills and Exchange knowledge and skills with engineering community.

d- General and transferable skills:

By the end of this course the student should be able to:

d1. Collaborate effectively within multidisciplinary team

d2. Work in stressful environment and within constraints

d3. Communicate effectively

d4. Demonstrate efficient IT capabilities

d5. Effectively manage tasks, time, and resources

d6. Search for information and engage in life-long self learning discipline

d7. Acquire entrepreneurial skills

d8. Refer to relevant literatures

The course ILOs are mapped to the program ILOs in Table (1) in the Appendix.

4- Course Contents (for On-Campus Training):

#	Topics	Total (Hrs.)
1	As described in the training program offered by the department	64
2	Field trips	16
Total		**80**

5- Lab/Computer/ project Work (for On-Campus Training):

As described in the training program

6- Learning/Teaching Methods (for On-Campus Training):

6.1- Interactive lectures

6.2- Self learning

6.3- Report writing

7- Assessment

- Assessment report from the training site: 40%
- Self-Evaluation report from the student: 40%
- Presentation by the student: 20%

The assessment methods are mapped to the course ILOs in Table (2) in the Appendix.

8- List of references (for On-Campus Training):

As specified in the training program

9. Facilities required for teaching and learning (for On-Campus Training):

- White board.
- Data show for presentations.
- Laboratories
- Internet access

Course coordinator: **Dr. Walid Omran**
Head of Department: **Dr. Kamel Hassan**
Date: **November 2017**

Appendix

Table (1): Course ILOs/ Program ILOs Matrix

		Program ILOs											
		C6	C7	C8	C9	D1	D2	D3	D4	D6	D7	D8	D9
		Apply safe systems at work and observe the appropriate steps to manage risks	Apply quality assurance and follow the appropriate codes and standards	Prepare and present technical reports	Apply project management skills and Exchange knowledge and skills with engineering community.	Collaborate effectively within multidisciplinary team.	Work in stressful environment and within constraints.	Communicate effectively.	Demonstrate efficient IT capabilities.	Effectively manage tasks, time, and resources.	Search for information and engage in life-long self learning discipline.	Acquire entrepreneurial skills.	Refer to relevant literatures.
Course ILOs	c1	■											
	c2		■										
	c3			■									
	c4				■								
	d1					■							
	d2						■						
	d3							■					
	d4								■				
	d5									■			
	d6										■		
	d7											■	
	d8												■

* Knowledge & understanding ILOs are not mapped in this matrix as the Programs ILOs does not require them.

Table (2): Assessment Method/Course ILOs Matrix

	Course ILOs													
	Knowledge & Understanding		Professional & practical skills				General & transferable skills							
Assessment Method	a1	a2	c1	c2	c3	c4	d1	d2	d3	d4	d5	d6	d7	d8
Assessment report from the training site			■	■		■	■	■		■	■	■	■	■
Self-Evaluation report from the student	■	■			■	■			■					
Presentation by the student	■	■				■			■					

Course Specifications

PT-1, PT-2, PT-3 Practical Training

Programme(s) on which the course is given:	Mechanical Engineering
Major or minor element of programmes:	(Not Applicable)
Department offering the programme:	Mechanical Engineering
Department offering the course:	Mechanical Engineering
Academic level/ semester:	After Level Two
Date of specification approval:	September 2019

A- Basic Information

Title: Summer Training **Code:** PT 1 – PT 2 – PT 3
Credit Hours: 0 Cr. Hrs.
Contact Hours: 80 Hrs.× 3 modules (240 Hrs).

B- Professional Information

1- Catalogue Course Description:

Each student who successfully completed the courses of Level Two must practice in one or more engineering facilities (inside or outside Egypt) for a total period not less than 240 hours. This training period must be divided over 3 modules (80 hours each) and should be carried out during two or three summer semesters. The student must practice at least 160 hours (2 modules) in Off-Campus training and at most 80 hours (one module) in On-Campus training offered by the Faculty of Engineering.

Off-Campus Training: Practical field training and/or practical courses in one or more engineering facilities relevant to the Mechanical Engineering Programs.

On-Campus Training: Engineering applications and/or communication skills courses relevant to Mechanical Engineering Programs.

2- Overall aims of the course:

The Main Goals of this course are:
1. Expose the students to actual working environment
2. Identify the responsibilities of engineers in the field
3. Develop technical, interpersonal, and personal skills

4. Deepen the understanding of mechatronics engineering fundamentals and theories

3- Intended learning outcomes of course (ILOs):

c- Professional and practical skills:

By the end of this course the student should be able to:

c1. Apply safe systems at work and observe the appropriate steps to manage risks.
c2. Apply quality assurance and follow the appropriate codes and standards.
c3. Exchange knowledge and skills with engineering community and industry.
c4. Prepare and present technical reports.

d- General and transferable skills:

By the end of this course the student should be able to:

d1. Collaborate effectively within multidisciplinary team.
d2. Communicate effectively.
d3. Lead and motivate individuals
d4. Effectively manage tasks, time, and resources.
d5. Search for information and engage in life-long self-learning discipline.
d6. Refer to relevant literatures.

The course ILOs are mapped to the program

ILOs in Table (1) in the Appendix.

4- Course Contents (for On-Campus Training):

	Topics	Total (Hrs.)
1	As described in the training program offered by the department	64
2	Field trips	16
Total		**80**

5- Lab/Computer/ project Work (for On-Campus Training):

As described in the training program

6- Learning/Teaching Methods (for On-Campus Training):

6.1- Interactive lectures
6.2- Self learning
6.3- Report writing

7- Assessment

- Assessment report from the training site: 40%

- Evaluation by the department committee: 40%
- Presentation by the student: 20%

The assessment methods are mapped to the course ILOs in Table (2) in the Appendix.

8- List of references (for On-Campus Training):

As specified in the training program

9. Facilities required for teaching and learning (for On-Campus Training):

- White board.
- Data show for presentations.
- Laboratories
- Internet access

Course coordinator:	**Dr. Mohamed A. Karali**
Head of Department:	**Prof. Yehia Hendawy**
Date:	**September 2019**

Appendix

Table [1]: Course ILOs/ Program ILOs Matrix

	Program ILOs	c1	c2	c3	c4	d1	d2	d3	d4	d5	d6
C09	Apply safe systems at work and observe the appropriate steps to manage risks.	x									
C11	Apply quality assurance procedures and follow codes and standards.		x								
C12	Exchange knowledge and skills with engineering community and industry.			x							
C13	Prepare and present technical reports.				x						
D1	Collaborate effectively within multidisciplinary team.					x					
D3	Communicate effectively.						x				
D5	Lead and motivate individuals							x			
D6	Effectively manage tasks, time, and resources.								x		
D7	Search for information and engage in life-long self-learning discipline.									x	
D9	Refer to relevant literatures.										x

* Knowledge & understanding ILOs are not mapped in this matrix as the Programs ILOs does not require them.

Table [2]: Assessment Method/Course ILOs Matrix

	Course ILOs													
	Knowledge & Understanding		Professional & practical skills				General & transferable skills							
Assessment Method	a1	a2	c1	c2	c3	c4	d1	d2	d3	d4	d5	d6	d7	d8
Assessment report from the training site			x	x		x	x	x		x	x	x	x	x
Self-Evaluation report from the student	x	x			x	x			x					
Presentation by the student	x	x				x			x					

جـــــامـــــعة المســـــتقبل

FUE - Future University in Egypt

Faculty of Engineering and Technology
Department of Structural Engineering and Construction Management

Course Specifications

PT-1, PT-2, PT-3: Practical Training in Structural Engineering

Programme(s) on which the course is given:	Structural Engineering & Construction Management
Major or minor element of programmes:	(Not Applicable)
Department offering the programme:	Structural Eng. & Construction Management
Department offering the course:	Structural Eng. & Construction Management
Academic level/ semester:	After Level Two
Date of specification approval:	September 2019

A- Basic Information

Title: Summer Training	**Code: PT-1, PT-2, PT-3**
Credit Hours:	**0 Cr. Hrs.**
Contact Hours:	**80 Hrs.× 3 modules (240 Hrs.)**

B- Professional Information

1- Catalogue Course Description:

Each student who successfully completed the courses of Level Two (or a minimum of 60 Cr. Hrs.) must practice in one or more engineering facilities (inside or outside Egypt) for a total period not less than 240 hours. This training period must be divided over 3 modules (80 hours each) and should be carried out during two or three summer semesters. The student may practice at most one module (80 hours) on-campus offered by the Faculty of Engineering. After completing the practical training, the student should submit report and conduct a presentation to be evaluated by the academic department as an accredited course (1 CH).

Off-Campus Training: Practical field training and/or practical courses in one or more engineering facilities relevant to the Structural Engineering Programs

On-Campus Training: Engineering applications and/or communication skills courses relevant to Structural Engineering Programs

2- Overall aims of the course:

The Main Goals of this course are:

- Expose the students to actual working environment
- Identify the responsibilities of engineers in the field
- Develop technical, interpersonal, and personal skills
- Deepen the understanding of structural engineering fundamentals and theories

3- Intended learning outcomes of course (ILOs):

a- Knowledge and understanding:

By the end of this course the student should be able to:

a1. Recognize the environment and culture of work place in the field structural engineering

a2. Relate the academic curriculum with practical engineering applications

c- Professional and practical skills:

By the end of this course the student should be able to:

c1. Professionally merge the engineering knowledge, understanding, and feedback to improve design of structures

c2. Practice the neatness and aesthetics in structural design and approach

c3. Prepare and present technical reports

c4. Practice, professionally, construction management skills. Prepare technical drafts and detailed drawings both manually and using computer aided drawing (CAD) programs.

d- General and transferable skills:

By the end of this course the student should be able to:

d1. Collaborate effectively within multidisciplinary team

d2. Work in stressful environment and within constraints

d3. Communicate effectively

d4. Demonstrate efficient IT capabilities

d5. Effectively manage tasks, time, and resources

d6. Search for information and engage in life-long self learning discipline

d7. Acquire entrepreneurial skills

d8. Refer to relevant literatures

The course ILOs are mapped to the program ILOs in Table (1) in the Appendix.

4- Course Contents (for On-Campus Training):

#	Topics	Total (Hrs.)
1	As described in the training program offered by the department	64
2	Field trips	16
Total		**80**

5- Lab/Computer/ project Work (for On-Campus Training):

As described in the training program

6- Learning/Teaching Methods (for On-Campus Training):

6.1- Interactive lectures
6.2- Self learning
6.3- Report writing

7- Assessment

- Assessment report from the training site: 50%
- Self-Evaluation report from the student: 20%
- Presentation by the student: 30%

The assessment methods are mapped to the course ILOs in Table (2) in the Appendix.

8- List of references (for On-Campus Training):

As specified in the training program

9. Facilities required for teaching and learning (for On-Campus Training):

- White board.
- Data show for presentations.
- Laboratories
- Internet access

Course coordinator: **Dr. Rana Khalaf**
Head of Department: **Prof. Mohamed Al-Aghoury**
Date: **September 2019**

Appendix

		Table (1): Course ILOs/ Program ILOs Matrix			
		Program ILOs			
		C2	C4	C12	C14
		Professionally merge the engineering knowledge, understanding, and feedback to improve design of structures	Practice the neatness and aesthetics in structural design and approach.	Prepare and present technical reports.	Practice, professionally, construction management skills. Prepare technical drafts and detailed drawings both manually and using computer aided drawing (CAD) programs.
Course ILOs	c1	■			
	c2		■		
	c3			■	
	c4				■

Table (2): Assessment Method/Course ILOs Matrix

	Course ILOs													
	Knowledge & Understanding		Professional & practical skills				General & transferable skills							
Assessment Method	a1	a2	c1	c2	c3	c4	d1	d2	d3	d4	d5	d6	d7	d8
Assessment report from the training site			■	■		■	■	■		■	■	■	■	■
Self-Evaluation report from the student	■	■			■	■			■					
Presentation by the student	■	■				■			■					

جـــــامـــــعة المســـــتقبل

FUE - Future University in Egypt

Faculty of Engineering and Technology
Department of Petroleum Engineering

Course Specifications

PT-1, PT-2, PT-3: Practical Training in Petroleum Engineering

Programme(s) on which the course is given:	Petroleum Engineering
Major or minor element of programmes:	(Not Applicable)
Department offering the programme:	Petroleum Engineering
Department offering the course:	Petroleum Engineering
Academic level/ semester:	After Level Two
Date of specification approval:	November 2017

A- Basic Information

Title: Summer Training	**Code: PT-1, PT-2, PT-3**
Credit Hours:	**0 Cr. Hrs.**
Contact Hours:	**80 Hrs.× 3 modules (240 Hrs.)**

B- Professional Information

1- Catalogue Course Description:

Each student who successfully completed the courses of Level Two (or a minimum of 60 Cr. Hrs.) must practice in one or more engineering facilities (inside or outside Egypt) for a total period not less than 240 hours. This training period must be divided over 3 modules (80 hours each) and should be carried out during two or three summer semesters. The student may practice at most one module (80 hours) on-campus offered by the Faculty of Engineering. After completing the practical training, the student should submit report and conduct a presentation to be evaluated by the academic department as an accredited course (1 CH).

Off-Campus Training: Practical field training and/or practical courses in one or more engineering facilities relevant to the Petroleum Engineering Programs

On-Campus Training: Engineering applications and/or communication skills courses relevant to Petroleum Engineering Programs

2- Overall aims of the course:

The Main Goals of this course are:

- Expose the students to actual working environment
- Identify the responsibilities of engineers in the field

- Develop technical, interpersonal, and personal skills
- Deepen the understanding of petroleum engineering fundamentals and theories

3- Intended learning outcomes of course (ILOs):

a- <u>Knowledge and understanding:</u>

By the end of this course the student should be able to:

a1. Recognize the environment and culture of work place in the field petroleum engineering

a2. Relate the academic curriculum with practical engineering applications

c- <u>Professional and practical skills:</u>

By the end of this course the student should be able to:

c1. Use a workshops and laboratory equipment to design experiments, collect, analyze and interpret results

c2. Apply safe systems at work and observe the appropriate steps to manage risks

c3. Apply basic organizational and project management skills

d- <u>General and transferable skills:</u>

By the end of this course the student should be able to:

d1. Collaborate effectively within multidisciplinary team

The course ILOs are mapped to the program ILOs in Table (1) in the Appendix.

4- Course Contents (for On-Campus Training):

#	Topics	Total (Hrs.)
1	As described in the training program offered by the department	64
2	Field trips	16
Total		**80**

5- Lab/Computer/ project Work (for On-Campus Training):

As described in the training program

6- Learning/Teaching Methods (for On-Campus Training):

6.1- Interactive lectures
6.2- Self learning
6.3- Report writing

7- Assessment

- Assessment report from the training site: 50%
- Self-Evaluation report from the student: 20%
- Presentation by the student: 30%

The assessment methods are mapped to the course ILOs in Table (2) in the Appendix.

8- List of references (for On-Campus Training):

As specified in the training program

9. Facilities required for teaching and learning (for On-Campus Training):

- White board.
- Data show for presentations.
- Laboratories
- Internet access

Course coordinator:	**Dr. Mohsen Nouby**
Head of Department:	**Prof. Ismail Mahgoub**
Date:	**September 2019**

Appendix

Table (1): Course ILOs/ Program ILOs Matrix

		Program ILOs			
		C10	C11	C19	D1
		Use a workshops and laboratory equipment to design experiments, collect, analyze and interpret results	Apply safe systems at work and observe the appropriate steps to manage risks.	Apply basic organizational and project management skills	Collaborate effectively within multidisciplinary teams
Course ILOs	c1	■			
	c2		■		
	c3			■	
	d1				■

Table (2): Assessment Method/Course ILOs Matrix

	Course ILOs												
	Knowledge & Understanding		Professional & practical skills			General & transferable skills							
Assessment Method	a1	a2	c1	c2	c3	d1	d2	d3	d4	d5	d6	d7	d8
Assessment report from the training site			■	■		■	■		■	■	■	■	■
Self-Evaluation report from the student	■	■			■			■					
Presentation by the student	■	■						■					

ثالثا: محتويات البرامج التدريبية

مقترح خطة التدريب العملى لقسم الهندسة المعمارية
للطلبة الذين انهوا Level 2،3،4
Summer 2019

بناءً على توصيات مجلس الكلية لإعداد خطة لتدريب الطلبة أثناء الفصل الدراسى الصيفى ، فإن القسم يقترح الخطة التالية :

فترة التدريب لكل مستوى اسبوعين (10 أيام X 8 ساعات) بإجمالى 80 ساعة (Lecture & Tutorial) و (Site Visits) .

البرامج المقترحة :

- **الطلبة الذين انهوا المستوى الثانى Level 2 :**

Training Module for Level 2

This training module consists of two courses with a total of 80 training hours spread over three weeks.

1- ***Finishing and Technical Installations (Duration 80 hours – 2 weeks)***

The module focuses on equipping the students with the necessary information and skills on how to perform the different finishing works in the building. It starts by giving an idea on the different construction phases, the know how on applying the flooring, plastering, carpentry, etc.. It also focuses on equipping the students with the necessary information to conduct the installations in the building, such as: water supply and sewage systems as well as electrical installations.

Day	Content
Day 1	Building works, flooring works
Day 2	Paint works and Ceilings
Day 3	Carpentry works and wall cladding
Day 4	Insulation works
Day 5	Sanitary fittings

Day 6	Electrical installations
Day 7	Site Visit
Day 8	Site Visit
Day 9	Site Visit
Day 10	Assessment

2- Free Hand rendering and drafting (Duration 80 hours – 2 weeks)

In this module the students learn the different methods and techniques of manual rendering for the architectural projects. Students are introduced to the different rendering techniques: magic marker rendering, water and ink, monotone black rendering, composite rendering, etc. and how they are applied. They will then have some basic training on the computer 2D drafting applications such as AutoCAD.

Day	**Content**
Day 1	Elements of Rendering (1)
Day 2	Elements of Rendering (2)
Day 3	Pencil Rendering techniques (1)
Day 4	Pencil Rendering techniques (2)
Day 5	Pen and Ink rendering techniques (1)
Day 6	Pen and Ink rendering techniques (2)
Day 7	Magic Marker rendering techniques (1)
Day 8	Magic Marker rendering techniques(2)
Day 9	Composite Rendering (1)
Day 10	Composite Rendering (2)

- **<u>الطلبة الذين انهوا المستوى الثالث Level 3</u>**

Training Modules for Level 3

1- Computer Modelling and Rendering (Duration 80 hours – 2 weeks)

In this module the students will have basic training (as a reminder) of the Office software including, word, excel and PowerPoint, as these are needed software for several disciplines in their academic study and later in their profession. The students will then get training on how to use the 3DMax as a modelling software to build their projects. Finally they will learn how render their work using a digital tool such as the Photoshop.

Day	**Content**
Day 1	Basic Training for Word Applications

Day 2	Basic Training for Power Point Applications
Day 3	Basic Training for Excel Applications
Day 4	Basics of 3D Max
Day 5	Basics of 3D Max
Day 6	Basics of 3D Max
Day 7	Basics of 3D Max
Day 8	Basics of 3D Max
Day 9	Basics of Photoshop
Day 10	Application and assessment

- **الطلبة الذين انهوا المستوى الرابع Level 4**

Training Modules for Level 4 and above

Level 4 students and above can choose from each of the following two courses:

1- **Training a site office engineer and professionalism *(Duration 80 hours – 2 weeks)***

The aim of the training is to prepare the students for the different tasks and duties that are carried out by the site office engineers. This is done in terms regards to the administrative documents and, revising project designs, tender documents, legal contracts, etc...

Day	**Content**
Day 1	**Technical office** : Its composition and tasks
Day 2	Preparation of Legal contracts, tenders and bids
Day 3	Project submission documents
Day 4	Building Permits and project fees
Day 5	Site Visit to a technical office
Day 6	**Professionalism**: ***Search for*** a proper Job
Day 7	How to ***prepare for an interview***
Day 8	***Professional ethics***
Day 9	***professional development***
Day 10	Workshop and assessment

2- **Interior Design *(Duration 80 hours – 2 weeks)***

The aim of this module is to train the students on the basic principles of the Interior Design. Several principles, styles and steps will be introduced to the

students, with the aim to finalize the training by learning how to make a mood board.

Day	**Content**
Day 1	Introduction to interior design
Day 2	How to deal with the interior space?
Day 3	Theory of Colors
Day 4	Lighting principles and design
Day 5	General Basic Design elements
Day 6	Styles of Interior Design
Day 7	Fishing Works
Day 8	How to Design the Interior Space
Day 9	Field Visit
Day 10	Field Visit

المسئول عن التدريب **رئيس القسم**

أ.د/ يوسف الرافعى **أ.د/ سمير صادق**

Training 1 Program

The training program consists of 80 hours of AutoCAD and SAP.

1- AutoCAD 2D. (50 hrs.)

This course covers the following items:

- Introduction to AutoCAD and working with the windows environment.
- Creating your first drawing.
- Viewing and plotting a drawing.
- Basic CAD drawing techniques.
- Basic editing skills.
- Major difference between structural and architecture drawings.
- Practical application on program.
- Exam.

2- ANALYSIS PROGRAMS: SAP 2000 PROGRAME. (30 hrs.)

This course covers the modeling process and displaying required results for the following items:

- Beams
- Frames
- Trusses.
- Practical application on program.
- Exam

❖ **Duration:**

Lectures start on Saturday from 10.00 AM to 3.00 PM
Lectures from Sunday to Thursday from 5.00 PM to 8.00 PM
Total course duration Three weeks = 80 hours

❖ **No of Students** per course: 18 Students

Summer-2019 On-Campus Training Program *(Electrical and Mechatronics Students)*

Week	Day	9 – 10	10 – 11	11 – 12	12 – 13	13 – 14	14 – 15	15 – 16	16 – 17	Room
September 8th – 12th	Sunday	**Electrical Safety** Prof. Hossam Talaat		**MATLAB** Prof. Hossam Talaat, Eng. A. Zahran, Eng. M. Shahin						A1.8
	Monday	**MATLAB** Prof. Hossam Talaat, Eng. A. Zahran, Eng. M. Shahin								A1.8
	Tuesday	**All About IEEE: The Benefits of Student Branches. Group Activity** Dr. Ahmed Saeed, FUE-IEEE SB Members								
	Wednesday	**Power Supply: Design, Simulation and Implementation of PCB** Prof. N. Abdelreheem, Eng. X, Tech. M. Salah, Tech. A. Harnona								A2.6
	Thursday	**Power Supply: Design, Simulation and Implementation of PCB** Eng. X, Tech. M. Salah, Tech. A. Harnona								
September 15th – 19th	Sunday	**فرص العمل المتاحة لخريجى الهندسة الكهربية** م/ سيف عنان, رئيس مجلس ادارة الجيزة للمشروعات		**FPGA & VHDL** Prof. M. Elmahalawy, Eng. M. Salah, Eng. A. Samir						A1.8
	Monday	**FPGA & VHDL** Prof. M. Elmahalawy, Eng. M. Salah, Eng. A. Samir								A1.8
	Tuesday	**Field Visit (Toshiba Elaraby)**								
	Wednesday	**Radar Systems and Applications** Prof. Ibrahim Salem		**Building Arduino Robots and Devices** Dr. Ahmed Saeed, Eng. Nermeen, Eng. B. Mokhtar, IEEE SB Member						A2.6
	Thursday	**Building Arduino Robots and Devices** Dr. Ahmed Saeed, Eng. Nermeen, Eng. B. Mokhtar, IEEE SB Member								A2.6

رابعا: جهات التدريب المقترحة

قائمة بأسماء الجهات المقترحة للتدريب الميداني

طلبة برنامج هندسة الميكاترونيات

1- مصر للطيران
2- مركز المعهد المتميز (الإنتاج الحربى)
3- مصانع الهيئة العربية للتصنيع
4- هيئة الطاقة الجديدة والمتجددة
5- المقاولون العرب
6- مصانع توشيبا العربى
7- مصنع جنرال موتورز (GM)
8- غبور للسيارات
9- مصانع بى إم دبليو
10- مصانع مرسيديس
11- LEONI Wiring Systems
12- السويدى للكابلات
13- P & G
14- Henkel
15- Unilever

طلبة برنامجي الهندسة الكهربائية

1- مركز المعهد المتميز(الإنتاج الحربي)
2- مصنع(ABD الهيئة العربية للتصنيع)
3- مركز الاستشعار عن بعد
4- الشركة المصرية للاتصالات
5- مصنع جنرال موتورز
6- معهد تدريب المقطم التابع لشركة جنوب القاهرة لتوزيع الكهرباء
7- محطات توليد الكهرباء بالقاهرة الكبرى
8- شركات توزيع الكهرباء
9- شركة نقل الكهرباء
10- هيئة الطاقة الجديدة والمتجددة
11- مصنع غبور للسيارات
12- جماعة المهندسين الاستشاريين(ECG)
13- SYSTEL
14- مصنع ABB
15- Si-Ware Systems
16- مصانع توشيبا العربي(بنها)
17- Egyptian International Motors (EIM)
18- LEONI Wiring Systems
19- Fujitsu Egypt

طلبة برنامج الهندسة المعمارية

1- المكاتب الهندسية الاستشارية
2- شركة المقاولون العرب للإنشاءات
3- مجموعة شركات طلعت مصطفى للإنشاءات
4- شركة حسن علام للمقاولات
5- مراكز التدريب الهندسية
6- مواقع تنفيذ الإنشاءات الهندسية

طلبة برنامج الهندسة الإنشائية وإدارة التشييد

1- المكاتب الهندسية الاستشارية
2- شركة المقاولون العرب للإنشاءات
3- مجموعة شركات طلعت مصطفى للإنشاءات
4- شركة حسن علام للمقاولات
5- مراكز التدريب الهندسية
6- مواقع تنفيذ الإنشاءات الهندسية

طلبة برنامج هندسة البترول

1- شركة خالدة للبترول
2- شركة عجيبة للبترول
3- شركة بدر الدين للبترول
4- الشركة العامة للبترول
5- شركة بترول بلاعيم
6- شركة جابكو
7- شركة قارون
8- شركة شلامبيرجير

خامسا: نماذج التدريب الميداني

Future University in Egypt
Faculty of Engineering and Technology
Department of ----------
Practical Training Committee

Practical Training Request Form *(F1)*
Academic Year (2018/2019)

Training Establishment:

Dear HR Department of the training establishment, we would appreciate much your acceptance of the following mentioned student at your training program.

Kindly provide the student with the following papers upon her/his finishing of the training program:

1) signed attendance sheet, 2) signed certificate

Thank you

Student name:		
Student number:		
Telephone number(s):		
Address:		
Email(s):		

Head, Department of ----------

Prof. ----------

Date: | | | |

Future University in Egypt
Faculty of Engineering and Technology
Department of ----------
Practical Training Committee

Practical Training Registration Form *(F2)*

Academic Year (2018/2019)

Student name: _____

Student number: _____

Telephone number(s): _____ | _____

Address: _____

Email(s): _____ | _____

Earned credit hours: _____

Training module:
(Fill in with ✓)

PT-1 ☐ PT-2 ☐ PT-3 ☐

Training establishment: _____

Training subjects: _____

Training period: _____

Signatures:

Student	Academic Advisor	Head of Department

Date: ☐☐☐

Future University in Egypt
Faculty of Engineering and Technology
Department of ----------
Practical Training Committee

Practical Training Program
Establishment Evaluation Sheet *(F3)*

Dear HR Department of the training establishment, Please fill in the following evaluation sheet for our student enrolled at your training program. This would help us for the overall evaluation of the student.

Thank you

Student name: _____

Student number: _____

Training establishment: _____

Training period: From _____ To _____

Evaluation Items	Points	
Attendance:		out of 20
Performance:		out of 30
Total:		out of 50
Final Grade: (>25 pass, <25 fail)	Pass	Fail
	⬭	⬭

Training Coordinator:
Name: Signature:

Approved by:
Name: Title: Stamp

Signature:

Date: | | | |

Future University in Egypt
Faculty of Engineering and Technology
Department of ----------
Practical Training Committee

Practical Training Program
Academic Evaluation Sheet *(F4)*

Student name: _____

Student number: _____

Telephone number: _____

Training module: PT-1 ⬭ PT-2 ⬭ PT-3 ⬭

Training establishment: _____

Training period: _____

Evaluation Items	Points	
Report Organization and Structure		out of 20
Discussions:		out of 30
Total:		out of 50
Final Grade: (>25 pass, <25 fail)	Pass	Fail
	⬭	⬭

Training Coordinator:
Name: Signature:

Approved by:
HoD: Prof. ---------- Signature:

Date: | | | |

Future University in Egypt
Faculty of Engineering and Technology
Department of ----------
Practical Training Committee

On-Compus Practical Training
Academic Evaluation Sheet *(F5)*

S.N.	Student number	Student name	MATLAB Mod. Grade (25)	Power Supply Grade (25)	FPGA Mod. Grade (25)	Aduino Mod. Grade (25)	**Total Grade Grade (100)**	**Pass/Fail**
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Training Coordinator:
Name: Signature:

Approved by:
HoD: Prof. ---------- Signature:

Date:

Future University in Egypt
Faculty of Engineering and Technology
Department of:

Results of Off-Campus Practical Training *(F6)*

Semester: Summer 2019

No.	ID	Name	Training Establishment Grade (50)	FUE Grade (50)	Total Grade (100)	Pass*/ Fail
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

* Pass means both the Company/Institute grade and FUE grade must be > 25

Head of Department: **Vice Dean/ Prof. T. El-Wakad** **Dean/Prof. M. A. Badr**

Signature/ **Signature/** **Signature/**

Future University in Egypt
Faculty of Engineering and Technology
Department of

Results of On-Campus Practical Training *(F7)*

Semester: Summer 2019

No.	ID	Name	Grade (out of 100)	Pass/Fail
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Head of Department: **Vice Dean/ Prof. T. El-Wakad** **Dean/Prof. M. A. Badr**

Signature/ **Signature/** **Signature/**

استبيان مردود التدريب العملي للطلاب *(F8)*

معلومات عامة:

الإسم:	الرقم الجامعي:
البرنامج/التخصص:	المستوى:

معلومات عن التدريب العملي الذي أنجزه الطالب:

م	جهة التدريب	التاريخ/السنة
1		
2		

المهارات والمعارف المكتسبة:

كيف تقيم مردود التدريب العملي في المهارات والمعارف التالية؟	ممتاز	جيد	مقبول	ضعيف	ضعيف جداً
العمل في بيئة مشابهة للواقع العملي					
اكتساب بعض مهارات التوظف					
تعلم أساسيات السلامة الهندسية					
اكتساب مهارات التواصل المهني					
تعلم وتطبيق بعض الأكواد الهندسية في مجال التخصص					
تطبيق أساسيات إدارة المشروعات					
التعرف على واجبات ومسئوليات المهندس في الواقع العملي					
تعميق فهم المعارف الهندسية التي تعلمتها من الدراسة بالكلية					
إعداد وعرض التقارير الهندسية					
ما مدى تقييمك إجمالياً عن التدريب العملي؟					
تعليقات إضافية:					

Thank you for your collaboration

Impact of Practical Training Survey *(F8)*

General Information

Student Name:	**ID:**
Program/Specialization:	**Level:**

Practical Training Completed by the student

S.N.	Training Establishment / Facility	Year
1		
2		

Knowledge and Skills Gained

How do you evaluate the impact of practical training on acquiring the following knowledge and skills?	V. Good	Good	Fair	Poor	V. Poor
Familiarization with actual work environment					
Employability skills					
Engineering safety					
Professional communication skills					
Application of engineering codes in the specialty					
Basics of project management					
Responsibilities of engineers in real life					
Deepen the understanding of the topics studied					
Prepare and present technical reports					
In summary, how do you evaluate the practical training?					
Additional Comments:					

Thank you for your collaboration