

# Architecture Engineering and Building Technology B.Sc.

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## Program Report By-Law 2012

2014-2015



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## Architectural Engineering and Building Technology

### PROGRAM REPORT

**November 2015**

#### 1. General

##### 1.1 Basic Information

- 1- **Program title:** Architectural Engineering and Building Technology.
- 2- **Program type:** Single.
- 3- **Department offering the program:** Architectural Engineering and Building Technology.
- 4- **Co-coordinator:** Prof. Dr. Mona El.Basyouni & Dr. Passant Massoud.
- 5- **External evaluator:**
  - **Prof. Hania M. Hamdy :** Vice Dean for Postgraduate Studies & Research  
 Faculty of Engineering - Mataria-Helwan University.

**6-Year of operation:** 2001-2002

##### 1.2 Academic Standards

###### 1.2.1 Achievement of program intended learning outcomes, ILO's:

###### 2<sup>nd</sup> year Architecture

Code	Subject	Total Credits	L	Contact Hours	
				T	P
ARC 211	Architectural Construction 1	3	2	3	-
ARC 221	Architectural Design 1	3	1	6	-
ARC 213	Building Technology	2	2	-	-
ARC 214	Computer Applications 1	4	2	3	2
ARC 220	Theories of Architecture (1)	2	2	-	-
ARC 215	Properties & Resistance of Materials	2	1	3	-
ARC 223	Visual Training (1)	2	1	3	-
<b>Total</b>		<b>18</b>	<b>11</b>	<b>18</b>	<b>2</b>

Code	Subject	Total Credits	L	Contact Hours	
				T	P
ARC 212	Architectural Construction 2	3	2	3	-
ARC 222	Architectural Design 2	3	1	6	-
ARC 241	History of Architecture (1)	2	2	-	-
MTH208	Statistical Mathematics for Arch. Engineering (8)	2	1	3	-
ARC 216	Surveying	2	1	1	2
ARC 217	Theory of Structures	2	1	3	-
ARC 218	Sciagraphy and perspective	3	2	4	-
<b>Total</b>		<b>17</b>	<b>10</b>	<b>20</b>	<b>2</b>

Code	Course Name	Knowledge & Understanding	Intellectual Skills	Practical & Professional Skills	General & Transferable Skills
		A	B	C	D
MTH 208	Statistical Mathematics for Arch. Engineering (8)	A1, A2, A5, A10	B1, B2, B3, B4 B7, B11	C1, C2, C7, C13	D3, D7
ARC 211	Architectural Construction 1	A3, A4, A24	B2, B5, B11, B12, B14, B22, B25	C2, C3, C12, C14, C23, C24, C25	D1, D2, D3, D6, D7, D8
ARC 221	Architectural Design 1	A4, A13, A14, A22 , A24	B2, B3, B13	C3, C4, C13, C17	D3, D7
ARC 213	Building Technology	A1, A5, A24	B4, B5, B13, B17, B23, B25	C1, C2, C23, C25	D1, D3, D4, D5, D6, D7
ARC 214	Computer Applications 1	A2, A4, A8, A14, A15, A21	B1, B2, B3, B13	C5, C12, C13, C14, C24	D1, D3, D6, D7
ARC 220	Theories of Architecture (1)	A1, A4, A11, A12, A14 , A16, A18, A19, A23	B3, B9, B12, B20 ,	C1, C2, C13	D1, D2, D3, D7
ARC 215	Properties & Resistance of Materials	A1, A3, A4, A15	B3, B5, B6, B13, B17 , B18	C2, C10, C15, C21, C 22, C23	D1, D3, D5
ARC 223	Visual Training (1)	A13, A20	B4, B13, B14	C13, C17, C18	D1, D3, D8

ARC 212	Architectural Construction 2	A3, A4, A24	B2,B5,B11, B12, B14 , B22	C2, C3, C12, C14, C23, C24,C25	D1, D2, D3, D6, D7,D8
ARC 222	Architectural Design 2	A4,A13,A14, A22, A24	B2, B3, B13	C3, C4,C13,C17	D3,D7
ARC 241	History of Architecture (1)	A17,A19	B4, B20,B21	C18,C21,C22	D1,D2,D3, D4
ARC 216	Surveying	A4, A8, A14, A24	B2, B9, B18, B22	C1, C6, C15,C16	D3, D5, D6
ARC 217	Theory of Structures	A1,A4,A5,A8,A14	B2,B3,B4,B5,B11, B13	C1,C2,C3,C7, C24	D6, D7
ARC 218	Sciagraphy and perspective	A4, A13, A20	B4,B14	C13, C18	D3, D8
ARC 221	Architectural Design 1	A4,A13,A14,A22 ,A24	B2,B3,B13	C3,C4,C13,C17	D3,D7
ARC 213	Building Technology	A1, A5, A24	B4, B5, B13,B17,B23,B25	C1, C2,C23 , C25	D1, D3, D4,D5,D6, D7

**3<sup>rd</sup> year Architecture**

Code	Subject	Total Credits	L	Contact Hours	
				T	P
ARC 311	Architectural Construction & Building materials 1	3	2	3	-
ARC 321	Architecture & Human Studies	2	2	-	-
ARC 322	Architectural Design 3	3	1	6	-
ARC 324	Design Methodology	2	2	-	-
ARC 314	Reinforced concrete & steel structures	3	2	3	-
ARC 327	Theories of Architecture (2)	2	2	-	-
ARC 326	History and Theories of planning	2	2	-	-
<b>Total</b>		<b>17</b>	<b>13</b>	<b>12</b>	<b>-</b>
Code	Subject	Total Credits	L	Contact Hours	
				T	P

ARC 312	Architectural Construction & Building materials 2	3	2	3	-
ARC 313	Computer Applications 2	4	2	3	2
ARC 323	Architectural Design 4	3	1	6	-
ARC 328	Visual Training (2)	2	1	3	-
ARC 341	History of Architecture (2)	2	2	-	-
ARC 310	Environmental Control	2	2	-	-
ARC 315	Foundation	2	2		
<b>Total</b>		<b>18</b>	<b>12</b>	<b>15</b>	<b>2</b>
ARC 360	Architecture Training 1	3	-	-	6
<b>Total</b>		<b>3</b>	<b>-</b>	<b>-</b>	<b>6</b>

Code	Course Name	Knowledge & Understanding	Intellectual Skills	Practical & Professional Skills	General & Transferable Skills
		A	B	C	D
ARC 311	Architectural Construction & Building materials 1	A14, A15, A20, A21, A23, A24, A25	B14, B15, B17, B22, B23, B25	C14, C15, C17, C22, C24, C23, C25	D1, D2, D3, D6, D7, D8
ARC 321	Architecture & Human Studies	A4, A5, A17, A24	B3, B4, B19	C6, C12, C21, C2, C25	D1, D3, D5, D6
ARC 322	Architectural Design 3	A5, A13, A14, A17, A18, A21	B3, B4, B13, B14	C3, C6, C17	D3, D7
ARC 324	Design Methodology	A4, A5, A8, A9, A11	B5, B7, B20	C3, C4, C8, C18, C12, C15, C20	D3, D5, D6, D7
ARC 314	Reinforced concrete & steel structures	A4, A5, A6	B2, B3, B11, B24	C1, C3, C7, C24	D6, D7
ARC 327	Theories of Architecture (2)	A15, A17, A18, A19	B1, B2, B3, B4, B5, B6, B7, B8	C1, C2, C3	D1, D2, D3, D4, D5, D6, D7, D8, D9



ARC 326	History and Theories of planning	A16,A15,A17,A18	B2,B3,B18,B20, B21	C13,C21,C22	D1,D7,D8
ARC 312	Architectural Construction & Building materials 2	A14, A15, A20, A21, A23,A24	B13, B14, B15, B17 , B22,B25	C15, C14, C18, C25 , C24	D1, D2,D3, D6, D7, D8
ARC 313	Computer Applications 2	A1,A4, A13, A14, A20	B1, B4, B9, B13, B14, B15 ,B21	C14,C15,C17,C21	D1,D2, D3, D5,D6 D7, D8
ARC 323	Architectural Design 4	A5, A13,A14,A17,A18 , A21	B3, B4, B13, B14	C3, C6, C17	D3, D7
ARC 328	Visual Training (2)	A1, A19, A13	B13, B14, B16	C13, C14	D1, D2, D3, D6, D7
ARC 341	History of Architecture (2)	A12,A19	B7,B13,B14,B20,B21	C12,C13.C18	D2,D3,D4,D5, D9
ARC 310	Environmental Control	A5, A8, A12,A24	B2, B3, B13, B15, B17	C1, C2, C11, C17, C19,C25	D1, D2,D3, D4,D5,D6, D7, D8
ARC 315	Foundation	A3, A4 A5 A9, A15	B2, B5, B6, B22,	C2,C12, C13, C14	D6
ARC 360	Architecture Training 1	A10,A 14	B2,B16,B 18	C7, C 8	D1, D3, D8

Regarding the previous table we observe the achievement of program intended learning outcomes to be covered by all courses taught:

**Comments of external evaluator and other stakeholders**

## تقرير مراجع خارجي لبرامج المرحلة الجامعية الأولى

يعبر التقرير التالي عن الرأي العلمي الموضوعي للسيد / أ.د. هانئة محمد حمدي  
- الوظيفة الحالية : استاذ قسم الهندسة المعمارية - كلية الهندسة بالمطرية - جامعة حلوان.

تمت مراجعة وتقييم توصيف البرنامج المرفق بناء على طلب :

قسم : الهندسة المعمارية

كلية/معهد : الأكاديمية الحديثة للهندسة والتكنولوجيا بالمعادي

اسم البرنامج : برنامج بكالوريوس هندسة العمارة وتكنولوجيا البناء - لائحة ٢٠١٢

تاريخ المراجعة : سبتمبر ٢٠١٥

برجاء مراجعة المكونات التالية التي تساعد على التقييم الشامل لتوصيف البرنامج المعني، وذلك

باستخدام المقياس التالي:

أ) البيانات الأساسية للبرنامج:

العناصر	مستوفى	غير مستوفى
البيانات الأساسية.	√	
اسم المنسق ورئيس القسم : Associate Prof Nahed Omran		

تعليقات المقيم :

تم تحديد اسم المنسق واسماء ٢ من مساعدي المنسق

إلا أن ما جاء في المقدمة ركز علي العمارة ولم يذكر ما يخص تكنولوجيا البناء.

التقييم الأكاديمي:

أهداف البرنامج :	واضحة	غير واضحة
صياغة الأهداف	واضحة	غير واضحة √
قابلة للقياس	كمي	نوعي

تعليقات المقيم :

• عدم وضوح أهداف البرنامج والتي لا تتفق مع ما جاء في العلامات المرجعية الخاصة ببرنامج

العمارة وتكنولوجيا البناء ARS for Architectural Engineering and Building Technology

والمعتمد من الهيئة القومية لضمان الجودة والاعتماد، مما يشكل صعوبة في القياس الكمي والنوعي. ويلزم مراجعة ما جاء في منطوق الأهداف والرسالة.

مخرجات التعلم المستهدفة للبرنامج :	
واضحة <input checked="" type="checkbox"/> / غير واضحة <input type="checkbox"/>	مخرجات التعلم المستهدفة
مرتبطة <input checked="" type="checkbox"/> / غير مرتبطة <input type="checkbox"/>	ارتباط مخرجات التعلم المستهدفة بأهداف البرنامج
تتحقق <input checked="" type="checkbox"/> / لا تتحقق <input type="checkbox"/>	تحقق مخرجات التعلم المستهدفة بالمقررات
يتوافق <input checked="" type="checkbox"/> / لا يتوافق <input type="checkbox"/>	مخرجات التعلم المستهدفة تتوافق مع مواصفات الخريج للبرنامج في كل من : - المجال المعرفي - المهارات التطبيقية والمهنية - المهارات الذهنية - المهارات العامة
يتوافق <input checked="" type="checkbox"/> / لا يتوافق <input type="checkbox"/>	
يتوافق <input checked="" type="checkbox"/> / لا يتوافق <input type="checkbox"/>	
يتوافق <input checked="" type="checkbox"/> / لا يتوافق <input type="checkbox"/>	
تواكب <input checked="" type="checkbox"/> / لا تواكب <input type="checkbox"/>	مخرجات التعلم المستهدفة للبرنامج تواكب التطور العلمي في مجال التخصص
تواكب <input checked="" type="checkbox"/> / لا تواكب <input type="checkbox"/>	مخرجات التعلم المستهدفة للبرنامج تواكب احتياجات سوق العمل

#### تعليقات المقيم:

- رصد توصيف البرنامج مواصفات الخريج التي جاءت متفقة مع تلك التي حددتها العلامات المرجعية، إلا أن البرنامج اضاف علي مواصفات الخريج المواصفه أرقام ٢٠-١٩-١٨ وهي تكرار للمواصفة رقم ٢١-٢٢.
- كما أن المخرجات التعليمية المستهدفة فيما يخص تكنولوجيا البناء جاءت متكررة في المعلومات والمعارف والمهارات الذهنية والمهارات المهنية والعملية ولم يتم استيفائها بشكل واضح من خلال المقررات.
- ومن خلال مراجعة توصيف المقررات تبين أن في بعض المقررات يفترض أن المخرج التعليمي الواحد يحقق ما بين ١-٧ معيار وهو ما يصعب تحقيقه، كما تلاحظ عدم توافق مخرجات التعلم المستهدفة مع مصفوفة المعارف والمهارات للبرنامج في معظم المقررات.
- من خلال مراجعة توصيف المقررات بما تشمله من أهداف وأساليب التدريس والتقييم، تبين ضرورة مراجعتها حتى يمكن تحقيقها لمخرجات التعلم المستهدفة للبرنامج مع ضرورة اتساقها مع اللائحة الدراسية.

- يلزم مراجعة وتنقيح مواصفات الخريج وإلغاء ما وجد بها من تكرار.

المعايير الأكاديمية:	
محددة ✓	غير محددة □
ملائمة ✓	غير ملائمة □
يتحقق	لا يتحقق ✓

#### تعليقات المقيم :

- البرنامج يتبنى علامات مرجعية ARS تم عرضها واعتمادها من الهيئة القومية لضمان الجودة والاعتماد بتاريخ يونيو ٢٠١٥ وبيين التوصيف تاريخ اعتماد مجلس الاكاديمية لاعتماد العلامات المرجعية في يوليو ٢٠١٥
- تزيد المعايير الخاصة بالبرنامج عن العلامات المرجعية المثبتة وجاءت الزيادة في معظمها متكررة.
- تلاحظ تزايد المعايير الخاصة بالبرنامج والتي تشمل: ما يخص الهندسة والهندسة المعمارية وتكنولوجيا البناء، إلا أن ما يخص تكنولوجيا البناء جاء متكررا في المعلومات والمعارف والمهارات الذهنية والمهارات المهنية والعملية.
- ينتج عن زيادة المعايير صعوبة في تتبع استيفاءها من خلال اساليب التعليم والتعلم والتقييم.
- وجود خطأ في ترقيم المعلومات والمعارف A24 . كما تلاحظ الزيادة في A24- A25 و B22- B23-B24 و C23-C24-C25 وهي لا تضيف ولكنها تمثل تكرار لا لزوم له.
- وجود أخطاء واضحة في المصفوفة العامة للبرنامج.
- يلزم مراجعة وتنقيح المعايير الأكاديمية للبرنامج وإلغاء ما وجد بها من أخطاء وتكرار.

هيكل البرنامج و محتوياته:
توازن هيكل البرنامج مع مواصفات الخريج من حيث:
- مقررات العلوم الأساسية.
- مقررات العلوم الإنسانية والاجتماعية.
- مقررات متخصصة.
- تدريب عملي وميداني.
تعليقات المقيم :
• تبلغ نسبة مقررات العلوم الاساسية للبرنامج ١٦% ( كنسبة من الساعات المعتمدة الكلية للبرنامج) وهي بذلك تقل كثيرا عن النسبة الاسترشادية للمعايير الاكاديمية المرجعية القومية NARS والتي

تتراوح ما بين ٢٠-٢٦% مما يحتاج للتعامل والتدخل لتعديل هيكل البرنامج أو عناصره

- تلاحظ أن معظم المقررات الخاصة بتكنولوجيا البناء جاء معظمها كمقررات اختيارية.
- كما تلاحظ أن معظم المقررات الخاصة بتكنولوجيا البناء لم تحقق المعايير التي تغطي تخصص تكنولوجيا البناء.
- تلاحظ وجود خطأ في الجداول ببيان توزيع الساعات contact hours ما بين المحاضرات والتمارين والعملية.

ملحوظة : يجب الرجوع عند تقييم هذا الجزء إلى الهياكل المطبقة في البرامج المناظرة

جـ) تقييم أعمال الطلاب:	
ملائمة الطرق المستخدمة في التقييم لطبيعة مخرجات التعلم المستهدفة.	ملائمة <input type="checkbox"/> غير ملائمة <input checked="" type="checkbox"/>

تعليقات المقيم :

- تحتاج طرق التقييم بصفه عامة للمراجعة لتكون مناسبة لطبيعة مخرجات التعليم المستهدفة وتتطابق مع اللائحة الدراسية.

- الأهداف او المخرجات التعليمية المستهدفة، وفي ARC522 هناك تداخل ما بين موضوعات المحاضرات مع التمارين.
- تلاحظ محدودية المراجع مثال: ARC410 أو عدم حداتها أو تكرارها في عدة مواد أو عدم تحديد الكتب المطلوبة مثال : ARC213 ARC218 أو استخدام الويكيبيديا وهي ليست مرجعا.
  - أخطاء في المصفوفات مثال: ARC315 حيث لا تتطابق المخرجات التعليمية المستهدفة في المصفوفة مع ما جاء في التوصيف.
  - استخدام نفس منطوق المعايير يقلل من احتماليه تحقيقها وقياسها ولا تتناسب مع المحتوى مثال: ARC312 ARC324 ARC311
  - عدم التناغم ما بين المحتوى واهداف المقرر والمخرجات التعليميه المستهدفه مثال: ARC324 ARC312
  - استخدام عدد كبير من المخرجات التعليمية المستهدفة يصعب من عملية تحقيقها مثال: ARC322 و ARC323 لهما ١٩ المهارات الذهنية و ١٠ مهارة عامة و ARC313 له ١٠ مهارات ذهنية وكذلك ARC323 ١٩ مهارة ذهنية وكذلك ARC511 حيث بلغ عدد المعارف والمعلومات ١٣ وعدد المهارات الذهنية ٨. أما في مقرر ARC452 فقد وصل عدد المعارف والمعلومات إلى ٨ والمهارات الذهنية إلى ١٤ والمهارات المهنية ١٤ والمهارات العامة ٦ .
  - حدوث تابق في توصيف بعض المواد مثال: ARC322 - ARC323 و ARC410 -ARC411 وكذلك ARC412 - ARC413 .
  - يجب تحديد الdiscipline بانه العمارة وعلوم البناء مثال ARC412
  - ضرورة اجراء مراجعة لغوية واملائية مثال specification× specification و -following flowing× وتنسيق الطباعة بحيث لا تتداخل المواد مثال: ARC425.

#### رأي المقيم النهائي

- توصيف البرنامج مكتمل بصفة عامة ويشتمل علي جميع العناصر، إلا إنه يلزم مراجعة مواصفات الخريج وكذلك المعايير الأكاديمية للبرنامج وإلغاء ما وجد بها من تكرار. ويلزم مراجعة المخرجات التعليمية المستهدفة للمقررات والتأكيد علي الاتساق والتوافق ما بين مخرجات التعلم المستهدفة مع مصفوفة المعارف والمهارات للبرنامج، واعادة تصميم المصفوفة العامة للبرنامج، مع ضرورة التأكد أن مقررات تكنولوجيا البناء تحقق المعايير الأكاديمية الخاصه بالتخصص.

اسم المراجع الخارجي: أ.د. هانئة محمد حمدي

التاريخ سبتمبر ٢٠١٥

التوقيع :

**a- Comments of stakeholders:**

- a. Totally full knowledge of relevant scientific methods of the design process are emphasized, identifying environmental constraints and, cultural contexts, as well as the understanding of relationships between forms and other different aspects including physical and non physical criteria of generating forms.
- b. Climatic constraints are very much respected in design as well as other basic design principles such as; functionality, aesthetic aspects, flexibility, adaptability, balance of form, homogeneity, unity, circulation,.....etc.
- c. Human needs as a user of space and his comfort is a priority of architecture design.
- d. Other important aspects of the educational system is totally regarded, that includes; implementation methods and techniques, construction tech. , site mechanisms, awareness of technical systems in buildings, computer related use.
- e. Full knowledge of architecture design process are taught, to provide methods of applying functional, environmental, social and economical aspects of design for both residential and commercial buildings. Design constraints are identified as well as, cultural and social contexts.
- f. Methods of generating building forms and site planning according to project size and site characteristics encompassing climate, topography and surrounding built environment.
- g. Design flexibility to fulfill user's needs is a priority.
- h. Development of research skills and team work through the preparation of project research documents, gathering data from similar projects.
- i. Studies regarding local architecture aspects, aesthetic aspects and awareness of built environment values.

**b- Comments of external evaluator**

**First Evaluator Comments & Program Coordinator Response:**

Reviewer Comment	Coordinator Response
The ILO's are clear but are also an exact copy of NARS...with the same wording, thus the character of the program does not show (building technology) & was not reflected on any of the ILO's.	The department adopted the NARS as the academic reference standard and considered the NARS intended learning outcomes as the program ILO's. Moreover, the courses ILO's are stated in detail in the courses specifications. They agree, in general, with the program ILO's

**1.3 Achievement of program aims**

By reviewing the achievement of program aims covered by the achievement of the different educational aims in the courses, which vary according to the educational purpose of the course we observed totally achievement of program aims which are:

- 1- Providing practical professionally-supervised training programs.
- 2- Applying advanced teaching methods.
- 3- Undertaking continual development of taught curricula.
- 4- Maintaining balance between theoretical fundamentals and practical application.
- 5- Emphasizing coherence and integration between architectural design, building systems, --construction methods, urban planning, and landscape architecture.

6- Broadening the scope of taught courses, enriching their content by local and international case studies and experiences.

7- Engaging graduates in realistic research work that responds to genuine community demands.

8- Promoting sustainable ecologic and cultural qualities in the built environment.

**Comments of external evaluator and other stakeholders:**

**i. Comments of stakeholders:**

The academy is applying a real advanced teaching system, based upon maintaining balance between theoretical fundamentals and practical application, emphasizing coherence and integration between architectural design, building systems, construction methods, urban planning and, landscape architecture.

The teaching system is based upon advanced teaching techniques using models to develop building form and site planning. Manual drawing skills are first developed to help student acquire presentation skills. The academy also develops design skills using computer programs starting with Auto Cad up to the very sophisticated levels of 3- D programs.

**ii. Comments of external evaluators**

**First Evaluator Comments & Program Coordinator Response:**

Reviewer Comment	Coordinator Response
Program aims are exactly as those given in NARS for the attributes of the Engineer (A-K) and the attributes of an architectural engineer (L-Q).	The department adopted the NARS as the academic reference standard and considered the NARS attributes of the graduate as the program attributes.
The mission of the program is general & needs to be revised.	The mission of the program was revised and agreed upon as is by the department council.

**1.4 Assessment methods**

- The department depends in evaluating the students on various methods such as final exam, midterm exam, oral exams, weekly sheets, practical exam & researches, according to the course structure and assessment methods mentioned in courses specifications.
- The exam must cover the intended learning outcomes mentioned in the course specification and the department is keen on revising the exam sheet which must cover at least 80 % of the course content.
- The final grade awarded to student in a course is usually based on the grades for both final exam and semester work and for some courses practical exam is required.

**Comments of external evaluator and other stakeholders**

**a- Comments of stakeholders:**

Students grades percentages in the second year is almost "sufficient", and the highest failure rate in the department is also in the second year - which is the first student's year in studying architecture-, this indicates that most of the students entering the program are not eligible for this kind of study.

- Band students of the fifth year received the highest proportions of "sufficient" and this is likely to affect



the quality of the academic graduate, which requires careful assessment to this phenomenon to improve the educational process.

- Study the causes of student grades in the second year and the fifth to maintain the level of academic graduate.

**b- Comments of external evaluators**

**First Evaluator Comments & Program Coordinator Response:**

Reviewer Comment	Coordinator Response
No rules for student's assessment were indicated.	Rules for student's assessment are stated in (Appendix 6) in the Program Specification.
Program evaluation of societal parties must be specified.	Program evaluation of societal parties was specified.

**1.5 Student achievement**

Graduated Students achievement through the program

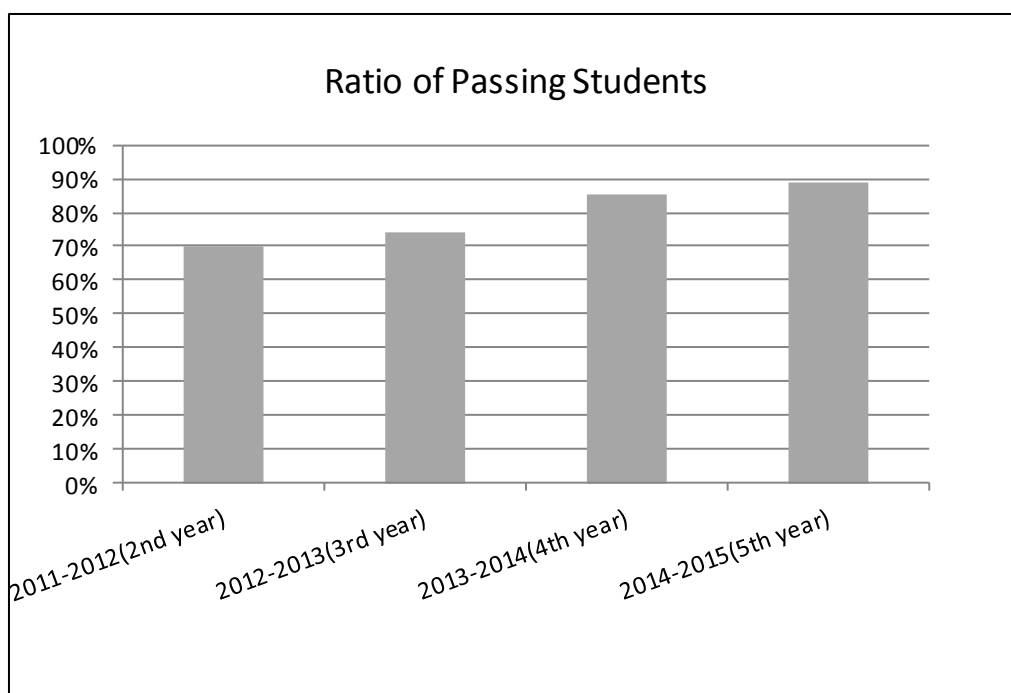


Figure (5): Graduated Students achievement through the program

After reviewing the results of students finishing the program in 2014-2015 regarding their achievements in each grade level through different years, we can observe the increase in passing ratio for the same students each year.

**Comments of external evaluator and other stakeholders on statistics from Section B:**

**a- Comments of stakeholders:**

- Students are coping well with the learning system and, methods implemented at the academy. They became familiar to hard work, libraries, books, periodicals, as well as, to computer use and internet. They present very well seminars, able to work in groups; each member of the group is executing his drawn task efficiently.
- The applied system implies discipline and help student form hard work habit. Libraries, field and research work help developing analytical skills. Seminars help developing presentation skills.

**b- Comments of external evaluators**

**First Evaluator Comments & Program Coordinator Response:**

Reviewer Comment	Coordinator Response
Student achievements were not shown in papers provided by the department.	All the student achievements are stated in the program report.

**1.6 Quality of teaching and learning**

Comments of external evaluator and other stakeholders including students

- The Academy adopt methods of teaching and learning based on traditional patterns of education courses that meet the goals and targets that are taught in accordance with the approved list.
- The formation of a committee of faculty members to study the distribution of subjects on the members of staff in accordance with the teaching specialty to ensure the quality of teaching and learning.
- The diversity in summer training programs according to the variables and labor market needs and requirements of the parties outside the academy.
- The development of strategies and announcements of the Department through regular weekly meetings with faculty members and teaching assistants to develop and discuss the plan of action and put forward solutions to problems that are reviewed.
- Some of the decisions are being taken corrective performance in the department as the results of self-evaluation.
- Ongoing work of the internal audit and continuous assessment tasks.

## **1.7 Effectiveness of student support systems**

### **Commentary on both academic and pastoral/personal support for all students**

- The department is interested in the students' support, despite of the growing numbers of students entering the department through the following:
- Divide the students of the same level into groups and the distribution of the studying schedule to optimize the use of lecture halls and drawing rooms
- Motivate outstanding students to participate in cultural activities and attending scientific conferences and by giving additional marks.
- A system was developed to solve the problems of students through the distribution of the responsibility on the faculty members to quickly resolve the problem and follow-up the complaints and to respond in a specific period.
- The periodic meeting with students' representatives to quickly solve problems of students.
- There is a schedule of final revision for the studied courses at the end of each semester to assist low and middle caliber students.
- Students are helped in the case of special circumstances such as cases of the disease, the death of a parent, injuries during an incident, by taking into account the circumstances of each case in providing the requirements of this year, especially in materials that rely on semester marks and attendance.
- Encourage students to manage, and organize cultural activities
- Establishing a database for students and save all the data and grades of the year in electronic archive for each student

## **1.8 Learning resources**

### **A. No. and ratio of faculty members and their assistants to students**

- Staff members and the assistants (Appendix 1 - Program Specification )
- Percentage of staff members to students : 1:38

### **B. Matching of faculty members' specialization to program needs.**

- All the Staff members are Qualified and they are adapted with the program requirements. (Appendix 1 - Program Specification )

### **C. Availability and adequacy of program handbook**

- The program specification is explained to the students attending the program through interviews with the students, in addition there are lecture notes for most of the courses available to the students.

**D. Adequacy of library facilities.**

- The academy scientific library is annually refurbished with the books needed for enriching the specialty according to the budget. Yet the number of books is not enough for the students.

**E. Adequacy of laboratories**

The department has two computer laboratories each of 60 computers.

**F. Adequacy of computer facilities**

- Labs are in need of increase of the instruments to cope with the increasing number of students attending the program.
- Renovation of the architecture software packages periodically.

**G. Adequacy of field/practical training resources**

- The department is keen on the compatibility of the summer training programs with the program specification and the requirements of the labor market. Care to provide opportunities for all students of the department with the diversity of training sites.
- It is difficult to schedule training on two months during the summer vacation for several reasons, a large number of students focus on training outside Egypt and in the month of Ramadan which come in July where it is difficult for students to attend it.

**H. Adequacy of any other program needs**

Non

**Comments of external evaluators**

**First Evaluator Comments & Program Coordinator Response:**

Reviewer Comment	Coordinator Response
The learning resources are limited.	The learning resources were revised.
Teaching and learning methods, student's assessment methods, list of references ... needs to be revised and are very limited.	Teaching and learning methods, student's assessment methods, and list of references were revised.  All the references were revised; they are all available in the library of the Academy.

**1.9 Quality management**

**A. Availability of regular evaluation and revision system for the program**

There is a unit for Quality Assurance in the department began its course of action by doing self-assessment to the department at the end of the academic year 2014/2015, in order to identify the strength points and to identify and treat the weaknesses (SWOT). The views of all interested parties (faculty members and their assistants, students and the administrative bodies and representatives of civil society) in the courses and the educational process have been explored, and sample of students has been taken (10%) of the total number of students the college. As for the faculty members they were asked all and for the administrative apparatus the sample (30%) of the total number has been analyzed. The results of the poll were statistically analyzed then a view of these

results was discussed with the College Board to take decisions on further development.

### **The results of self-evaluation and quality management**

#### **Reflection of the results of self-evaluation of the department performance on quality management**

Work is already underway to make some decisions for corrective overall performance of the department in light of the results of self-evaluation Examples of such decisions:

- The work of the internal audit and continuous assessment with identified tasks.
- Work is permanently and continuously to develop the capacity of faculty members.
- The department is interested in students and alumni, and follows up their proceeding in the labor market, to improve the outcomes and competitive position within the community.

#### **Strengthening activities for Quality Management**

It was possible to identify some areas for future promotion and development in the light of the results of self-evaluation of the performance of the department and of these areas.

Strengthening the quality management in the department through:

- The continued development of the courses objectives with global trends.
- Developing the skills of the administrative apparatus in the use of technology.
- Prepare an annual plan for periodic maintenance of institutional facilities.

#### **B. Effectiveness of the system**

The quality management system is effective since there are:

- Quality management regulations.
- Feedback for the program evaluation.
- Corrective actions for program flaws.

#### **C. Effectiveness of Faculty and University laws and regulations for progression and completion**

There is a quality section in the department which a subordinate from the quality centre of the Academy. Its role is to monitor and assure the implementation of the quality measures in the department.

#### **D. Effectiveness of program external evaluation system:**

I- External evaluators

The department program is evaluated by two qualified external evaluators.

II- Students

The program courses, the teaching methods and the assessment methods are evaluated by the students each semester by questionnaires handed to a percentage of students for each course. As for the alumni there is a questionnaire done to a percentage of them to evaluate the whole program.

III- Other stakeholders

At the end of the academic year there is an annual meeting for the stakeholders and representatives of the civil community for the reconnaissance of their evaluation to the academic year.

#### **E. Faculty response to student and external evaluations**

All the external evaluator's comments were taken in consideration and are stated with the department response in the "Program Specification".

There is an action plan set to be implemented in the following academic year.

## 2. Proposals for program development

### A. Program structure (units/credit-hours)

The department has submitted a proposal for credit hours system and pending approval of the application.

### B. Courses, deletions and additions and modifications

The course coordinator can modify some of the contents of the curriculum without changing the major aims of the course which is approved by The Academy. This change is done by reference to the department council.

There is a variety of elective courses chosen by students within the last 4 semesters in the program.

### C. Staff development requirements

The department has a plan to increase the number of staff within the next 3 years to reach the ratio 1:25 for the staff to students, and the ratio of 1:15 for the staff assistants to students.

## 3. Progress of previous year's action plan

Action Identified	Person Responsible	Progress of action
Change to credit hours system	Academic Administration	Credit hours system has begun in the first year.
Specialized training courses for all staff	Training Sector	40 staff members were given specialized training courses, 10 of them are from architecture department
Complete the shortage in education facilities	Academic Administration	Many of education facilities were completed specially data shows

## 4. Action plan

Action required	Person Responsible	Completion Date
Specialized training courses for all staff	Training Sector	September 2014
Complete the shortage in education facilities	Academic Administration	Academic year 2014-2015

Program Coordinator: Prof. Dr.Nahed Omran

Signature:

**Appendix 1**

**Annual Course Report**

**2014-2015**





1<sup>st</sup> year General

S	Course	
	Code	Title
1	CHE 100	Chemistry
2	ELC 214	Modern Theory for Semiconductor Devices
3	ELC 215	Semiconductor for Microelectronics
4	GEN 141	قضايا اجتماعية معاصره
5	GEN 142	English Language
6	GEN 143	تاريخ الهندسة والتكنولوجيا
7	GEN 353	ادارة أعمال دولية
8	MEC 101	Mechanics
9	MEC 102	Mechanics-2
10	MTH 101	Algebra and Calculus
11	MTH 102	Integration and Analytic Geometry
12	MTH 203	Mathematics -3(Differential Equations and T ransforms)
13	MTH 204	Mathematics -4 (Advanced Calculus)
14	MTH 207	Numerical Analysis
15	MTH 208	Statistical Mathematics for Architectural Engineering
16	MTH 305	Introduction to Prob. and Statistics
17	MTH 305	Introduction to Prob. and Statistics
18	PHY 101	Physics
19	PHY 102	Physics



**(CHE100) Chemistry**  
**Annual Course Report**  
**Academic year 2014-2015**

**A- Basic Information**

**1- Course Code & Title: (CHE100) Chemistry**

**2- Program(s) on which this course is given:**

Manufacturing Engineering and Production Technology BSc Program  
Electronic Engineering and Communication Technology  
BSc Program  
Computer Engineering and Information Technology BSc Program  
Architecture Engineering and Building Technology BSc Program

**3- Year/Level of program: First Year/Second Semester**

**4- Credit hours**

Credit	3 hrs	Lectures	2 hrs	Tutorial	1 hrs	Practical	2 hr
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**5- Names of lecturers contributing to the delivery of the course:** Prof. Dr. Shaban Ragab Gouda

**6- Course coordinator:** Prof. Dr. Shaban Rageb Gouda

**7- External evaluator:** Non

**B- Statistical Information**

**1- No. of students attending the course:**

No.	1200	100	%
No.	1144	95.33	%

**2- No. of students completing the course:**

**3- Results:**

	No.	%
Passed	1088	95.10
Failed	56	4.89

Grading of successful students:		
Grade	No.	%
Excellent	463	40.46
Very Good	260	22.72
Good	203	17.74
Pass	162	14.16

## C- Professional Information

### 1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
• Gas low and gas liquefaction	6	6	Prof. Dr. Shaban Rageb
• Liquid state, refrigeration and heat pump.	6	6	
• Electrochemistry and metallic corrosion.	5	5	
• Solution and antifreezes	3	3	
• Thermo chemistry and solar heat.	3	3	
• Pollution	0	0	
• water treatment and distillation	14	14	
• polymer and industry	3	3	
• fuels and combustion	3	3	
• Chemistry and tech. of petroleum and new trends in energy resource.	3	3	
<b>Total hours</b>			

Topics taught as a percentage of the content specified: >90 %

Reasons in detail for not teaching any topic: non

If any topics were taught which are not specified, give reasons in detail: Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a12	b1 to b7	c1 to c6	d1 to d5

**2- Teaching and learning methods:**

Lectures: Lecture, discussions, tutorials and problem solving  
 Practical training/ laboratory: Practical Training and experimental measurements in Lab  
 Seminar/Workshop: Non  
 Class activity Exercises; solution of problems and data show.  
 Other assignments/homework: Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

**3- Student assessment:**

Method of assessment	Points	%
Written examination	60	60
Oral examination	Non	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Prof. Dr. Shaban Ragab Gouda

Role of external evaluator: Non

**4- Facilities and teaching materials:**

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

**5- Administrative constraints** (List any difficulties encountered)

➤ Non

**6- Student evaluation of the course:**

	List any criticisms	Response of course team
(a)	it is recommended to solve more examples in the exercises	Only a balanced proportion of exercises are solved in the class, the rest are presented as assignments
(b)	The assignment are corrected without giving detailed comments concerning the correct answers	The correct results of problems solutions of problems will be presented during the exercises periods
(c)	It is recommended to announce the points of mid- term, rather than the grades.	The form and timing of declaration of year work evaluation results follow the Academy policy.

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	

**8- Written Exam Evaluation**

- High success percentage in the good level of the final written exam.
- The whole exam result shows considerable weakness in report writing and English language level.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
(a) Add more experiments to chemistry Laboratory	December 2015	Two experiments are already added on September 2014. One more is planned for May 2015

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
1. adding more assignments reports and quizzes for Chapters 10 and 11	December 2015	Prof. Dr. Shaban Rageb

**Course coordinator:** Prof. Dr Shaban Rageb

**Signature:**

**Date:** September 2015

## ELC214: Modern Theory for Semiconductor Devices Annual Course Report Academic year 2014-2015

### A- Basic Information

1- Course Code & Title: ELC214: Modern Theory for Semiconductor Devices

2- Program(s) on which this course is given:

Electronic Engineering and Communication Technology BSc Program,  
Computer Engineering and Information Technology BSc Program

3- Year/Level of program: Second Year/ Senior 2, First Semester

4- Credit hours

Credit	3 hrs	Lectures	2 hrs.	Tutorial	1 hrs.	Practical	2 hr
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5-Names of lecturers contributing to the delivery of the course:

Prof. Dr. L. I. Soliman & Dr. A. H. Serag El-Deen

6- Course coordinator: Prof. Dr. L. I. Soliman

7- External evaluator: Non

### B- Statistical Information

4- No. of students attending the course:

No. 328 100 %

5- No. of students completing the course:

No. 320 97.56 %

6- Results:

	No.	%
Passed	310	96.8
Failed	10	11.5

Grading of successful students:		
Grade	No.	%
Excellent	35	10.9
Very Good	60	18.8
Good	80	25
Pass	145	45.3

### C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
➤ Introduction to quantum physics	1		
➤ Classical and modern theory of light	1		1
➤ Plank's expansion for blak body radiation	1	2	2
➤ Photo electric effect	1	2	2
➤ Compton expriment	1	2	2
➤ Compton scattering	2	2	
➤ Partics behaving as a wave and partical wave complementarity	1	2	2
➤ Introduction to wave mechanics	2	2	1
➤ The uncertainty principle	2	2	1
➤ Wave function for free particale	1		
➤ Wave function of the particale	3	2	1
➤ The simple harmonic oscillator	2	2	1

➤ Scanning tunneling microscopy	2	2	
➤ Introduction to atomic physics	1		
➤ Models of atoms	2	2	1
➤ Bonding mechanisms	2	4	1
➤ Bonding in solids	3	2	
➤ Classical free electron model of metals	3	2	
<b>Total hours</b>	<b>30</b>	<b>15</b>	<b>30</b>

Topics taught as a percentage of the content specified: >90 % 70-90 % <70%

Reasons in detail for not teaching any topic:

Non

If any topics were taught which are not specified, give reasons in detail:

Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a7	b1 to b4	c1 to c6	d1 to d5

## 2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving and modeling

Practical training/ laboratory: Practical Training and experimental measurements in Lab

Seminar/Workshop: Non

Class activity: Numerical exercises; solution of problems.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

## 3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	Non	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Prof. Dr. L. I. Soliman, Dr. A. H. Serag Eldeen

Role of external evaluator: Non

## 4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

## 5- Administrative constraints (List any difficulties encountered)

➤ Non



**6- Student evaluation of the course:**

	List any criticisms	Response of course team
(a)	it is recommended to modify the practical part with advanced experiments.	The new versions of experiments have been prepared and will be ready in the next semester.
(b)	The assignment are corrected without giving detailed comments concerning the correct answers	The correct results of problems solutions of problems will be presented during the exercises periods
(c)	It is recommended to announce the points of the student activities.	It is under study to be published.

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	

**8- Written Exam Evaluation**

- High success percentage in question 1 and 4 of the final written exam
- The whole exam result shows considerable weakness in report writing and English language level.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
(b) Add more experiments to physics Laboratory	December 2014	4 experiments are already added on September 2015.

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
1. adding more exercises, assignments reports and quizzes for Chapter 1- 4	December 2015	Prof. Dr L. I. Soliman

**Course coordinator:** Prof. Dr L. I. Soliman

**Signature:**

**Date:** Feb. 2015

## ELC215: Semiconductor for Microelectronics Annual Course Report Academic year 2014-2015

### A- Basic Information

1- Course Code & Title: ELC215: Semiconductor for Microelectronics

2- Program(s) on which this course is given:

Electronic Engineering and Communication Technology BSc Program,  
Computer Engineering and Information Technology BSc Program

3- Year/Level of program: Second Year/ Senior 2, second Semester

4- Credit hours

Credit	3 hrs	Lectures	2 hrs	Tutorial	1 hrs	Practical	2 hr
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3 Names of lecturers contributing to the delivery of the course:

Prof. Dr. L. I. Soliman & Dr. A. H. Serag El-Deen

6- Course coordinator: Prof. Dr. L. I. Soliman

7- External evaluator: Non

### B- Statistical Information

7- No. of students attending the course:

No.	402	100	%
No.	348	87	%

8- No. of students completing the course:

9- Results:

	No.	%
Passed	348	87
Failed	64	13

Grading of successful students:		
Grade	No.	%
Excellent	76	18.9
Very Good	80	19.9
Good	108	26.87
Pass	84	20.8

### 3 – Contents

Topic	Lecture hours	Tutorial hours	Practical hours
➤ Introduction to semiconductors	1		
➤ Classify different types of semiconductors	1		1
➤ Crystal structure and band structure of semiconductor	1	2	2
➤ Conduction in different types of semiconductor	2	2	2
➤ P-N junction	1	2	2
➤ Forward and revers biased and breakdown	2	2	
➤ Diode	1	2	2
➤ Zener diode	2	2	1
➤ Tunnel diode	2	2	1
➤ Solar cell	1		
➤ Application of diodes	3	2	1
➤ Schottky diode	2	2	1
➤ Tunnel diode	2	2	
➤ Bipolar junction transistor (BJT)	2	2	1
➤ Junction field effect transistor (JFET)	2	4	1

➤ Metal oxide semiconductor transistor(MOSFT)	3	2	
➤ Physical structure, basic configuration and I-V characteristics	3	2	
➤ <b>Total hours</b>	<b>30</b>	<b>15</b>	<b>30</b>

Topics taught as a percentage of the content specified: >90 % 70-90 % <70%

Reasons in detail for not teaching any topic:

Non

If any topics were taught which are not specified, give reasons in detail:

Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a7	b1 to b4	c1 to c6	d1 to d5

## 2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving and modeling

Practical training/ laboratory: Practical Training and experimental measurements in Lab

Seminar/Workshop: Non

Class activity: Numerical exercises; solution of problems.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

## 3- Student assessment:

Method of assessment	Points	%
Written examination	60	60
Oral examination	Non	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Prof. Dr. L. I. Soliman, Dr. A. H. Serag Eldeen

Role of external evaluator: Non

## 4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

## 5- Administrative constraints (List any difficulties encountered)

➤ Non

## 6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	it is recommended to modify the practical part with advanced experiments.	The new versions of experiments have been prepared and will be ready in the next semester.
(b)	The assignment are corrected without giving detailed comments concerning the correct answers	The correct results of problems solutions of problems will be presented during the exercises periods

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	

**8- Written Exam Evaluation**

- High success percentage in question 2 of the final written exam

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
(c) Add more experiments to physics Laboratory	may 2015	No action.

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
1. adding more exercises, assignments reports and quizzes for Chapter 1- 5	June 2015	Prof. Dr L. I. Soliman

**Course coordinator:** Prof. Dr L. I. Soliman

**Signature:**

**Date:** June 2015

قضايا اجتماعية معاصره (GEN 141)

Annual Course Report  
Academic year 2014-2015

A- Basic Information

1- Course Code & Title: (GEN 141) قضايا اجتماعية معاصره

2- Program(s) on which this course is given:

Manufacturing Engineering and Production Technology BSc Program  
Electronic Engineering and Communication Technology BSc Program  
Computer Engineering and Information Technology BSc Program  
Architecture Engineering and Building Technology BSc Program

3- Year/Level of program: First Semester

4- Credit hours

Credit	2 hrs	Lectures	2 hrs	Tutorial	-	Practical	-
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5- Names of lecturers contributing to the delivery of the course: Prof. Dr. شيماء نبيه

6- Course coordinator: Prof. Dr. شيماء نبيه

7- External evaluator: Non

B- Statistical Information

10- No. of students attending the course:

No.	580	100	%
No.	527	90.86	%

11- No. of students completing the course:

12- Results:

	No.	%
Passed	507	96.20
Failed	20	3.79

Grading of successful students:		
Grade	No.	%
Excellent	178	33.77
Very Good	146	27.70
Good	108	20.49
Pass	75	14.23

C- Professional Information

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
الانتماء اهميته واصول المجتمع – العادات والتقاليد المرعية – المواطنه – العوامل المحفزه لحب الوطن ( الحرية – احترام الرأي الاخر – عدم التمييز العنصري – الديمقراطية)			Prof. Dr. شيماء نبيه
النمو والتكامل الاقتصادي – المكونات الاجتماعية والاقتصادية للمجتمع – اساليب قياده – اساليب ترشيد الموارد – الابتكار وتجديد الموارد – الحوافز الخاصة بافراد المجتمع – اساليب تقييم المشروعات)			
(بناء الاسرة – تكوين الاسرة – التنشئة الاجتماعية – النسق الاسري والانساق الاخرى – المؤسسات التقليدية والحديثة الخاصة بالاسرة)			
(مهارات العمل الجماعي – اهمية العمل الفريقي – الفارق بين العمل الجماعي والفريقي – كيفية اعداد القادة)			
<b>Total hours</b>			

Topics taught as a percentage of the content specified: >90 % 70-90 % <70%  
Reasons in detail for not teaching any topic: Non  
If any topics were taught which are not specified, give reasons in detail: Non  
Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a3	b1 to b3	-	d1 to d3

## 2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving and modeling  
Practical training/ laboratory: Non  
Seminar/Workshop: Lecture  
Class activity: Non  
Case Study: Selected case studies  
Other assignments/homework: Bi-weekly assignments and reports  
If teaching and learning methods were used other than those specified, give reasons: Non

## 3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	30	30
Mid-Term Exam	Non	0
Total	100	100

Members of examination committee: Dr. شيماء نبيه

Role of external evaluator: Non

## 4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

## 5- Administrative constraints (List any difficulties encountered)

➤ Non

## 6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	يري بعض عدم اهمية لدراسة العلوم الانسانية في اطلاب كلية الهندسة	تخصيص اكثر من محاضرة لتوضيح اهمية دراسة العلوم الانسانية في الحياة العملية بجانب دراسة التخصص
(b)	يري بعض الطلاب اضافة بعض الموضوعات التي تناسب تخصصهم ودراساتهم للهندسة	تخصيص محاضرتين يعرض فيها الطلبة بعض المهارات التي تساعد في الحياة العملية مثل العمل

		الفريقي او الاقناع
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**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	Non

**8- Written Exam Evaluation**

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
Non	January 2015	Prof. Dr shimaa nabih

**Course coordinator:** Prof. Dr. شيماء نبيه

**Signature:**

**Date:** September 1, 2015

## GEN 142 English Language Annual Course Report Academic year 2014-2015

### A- Basic Information

1- Course Code & Title: GEN 142 English Language

2- Program(s) on which this course is given: Manufacturing Engineering and Production Technology BSc Program

Electronic Engineering and Communication Technology BSc Program

Computer Engineering and Information Technology BSc Program

Architecture Engineering and Building Technology BSc Program

3- Year/Level of program: 1st Year/Second Semester

4- Credit hours

Credit	2 hrs	Lectures	2 hrs	Tutorial		Practical	
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5- Course coordinator: Dr. Neveen Samir

6- External evaluator: Non

### B- Statistical Information

13- No. of students attending the course:

No.	620	100	%
No.	580	93.6	%

14- No. of students completing the course:

15- Results:

	No.	%
Passed	525	90.51
Failed	55	9.48

Grading of successful students:		
Grade	No.	%
Excellent	51	9.71
Very Good	75	14.28
Good	170	32.38
Pass	229	43.61

### C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
<b>Computer Hackers</b>	2		
<b>At the Doctor's</b> Reviewing tenses Reading	2		
<b>At the Doctor's</b> (to be continued) Grammar: perfect tenses& prefixes	2		
<b>Global Warming</b> Reading Speaking : English communication skills Suffixes & adj.&adv.	2		
<b>Computer Addiction</b> Reading: 53-55 Seaking: discussing the topic Grammar: adjectives	2		



<b>Earthquake</b> Reading: 59-61 Grammar: Suffixes	2		
<b>Words and their Stories</b> Reading Grammar: wh-questions and negatives	2		
<b>Revision</b> 7 <sup>th</sup> week Exam	2		
<b>Describing People &amp; Things</b> Reading : Grammar: adj. & adv	2		
<b>Describing People &amp; Things (to be continued)</b> Reading : Grammar : relative clauses	2		
<b>Qualities and Flaws</b> Speak: discussing qualities and flaws of each one (pair work) Grammar: Possession Pronouns+ Adjectives	2		
<b>Qualities and Flaws (to be continued)</b> List. & Speak: discussing the topic	2		
<b>People Idioms</b> Grammar: gerund "& to infinitive & adjectives with prepositions	2		
<b>English proverbs</b> Grammar: problem verbs	2		
Revision	2		
<b>Total hours</b>	<b>30</b>		

Topics taught as a percentage of the content specified: >90 %

Reasons in detail for not teaching any topic:

Non

If any topics were taught which are not specified, give reasons in detail:

Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
A9 , A10	C11 , C12	B4	D1 to D8

## 2- Teaching and learning methods:

Lectures: Lecture, discussions, doing exercises,

Practical training/ laboratory: Non

Seminar/Workshop: Non

Class activity Doing exercises (pair work & group work)

Other assignments/homework: Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

**3- Student assessment:**

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	-	-
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

**Members of examination committee:** Dr. Neveen Samir

**Role of external evaluator:** Non

**4- Facilities and teaching materials:**

Totally adequate	
Adequate to some extent	Yes
Inadequate	

List any inadequacies: Non

**5- Administrative constraints** (List any difficulties encountered)

➤ Non

**6- Student evaluation of the course:**

	List any criticisms	Response of course team
(a)	It is recommended to announce the points of mid-term, rather than the grades.	The form and timing of declaration of year work evaluation results follow the Academy policy.

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	

**8- Written Exam Evaluation**

➤ The exam level is convenient, considering the percentage of success.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
NON	NON	NON

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
NON	NON	NON

**Course coordinator:** Prof. Dr Neveen

**Signature:**

**Date:** September 1, 2015

## تاريخ الهندسة والتكنولوجيا (GEN 143)

### Annual Course Report Academic year 2014-2015

#### A- Basic Information

1- Course Code & Title: (GEN 143) تاريخ الهندسة والتكنولوجيا

2- Program(s) on which this course is given:

Manufacturing Engineering and Production Technology BSc Program

Electronic Engineering and Communication Technology BSc Program

Computer Engineering and Information Technology BSc Program

Architecture Engineering and Building Technology BSc Program

3- Year/Level of program: First Semester

4- Credit hours

Credit	2 hrs	Lectures	2 hrs	Tutorial	-	Practical	-
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5- Names of lecturers contributing to the delivery of the course: Prof. Dr. مروه محمد فؤاد

6- Course coordinator: Prof. Dr. مروه محمد فؤاد

7- External evaluator: Non

#### B- Statistical Information

16- No. of students attending the course:

No. 580 100 %

17- No. of students completing the course:

No. 527 90.86 %

18- Results:

	No.	%
Passed	507	96.20
Failed	20	3.79

Grading of successful students:		
Grade	No.	%
Excellent	178	33.77
Very Good	146	27.70
Good	108	20.49
Pass	75	14.23

#### C- Professional Information

##### 1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
العلم و الهندسة والتكنولوجيا	2		Prof. Dr. مروه محمد فؤاد
الهندسة و البحث العلمى – منظومة البحث العلمى	2		
عناصر و متطلبات البحث العلمى	2		
الهندسة و خريطة البحث العلمى – مراحل البحث العلمى	2		
تاريخ الهندسة و التكنولوجيا فى مختلف العصور	4		
نقل التكنولوجيا	2		
نشاطات العمل الهندسى و مسئوليات المهندس	2		
<b>Total hours</b>			

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: Non

If any topics were taught which are not specified, give reasons in detail: Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a4	b1 to b4	-	d1 to d4

## 2- Teaching and learning methods:

Lectures:	Lecture, discussions, tutorials, problem solving and modeling
Practical training/ laboratory:	Non
Seminar/Workshop:	Lecture
Class activity	Non
Case Study:	Selected case studies
Other assignments/homework:	Bi-weekly assignments and reports
If teaching and learning methods were used other than those specified, give reasons:	Non

## 3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	30	30
Mid-Term Exam	Non	0
Total	100	100

Members of examination committee: Dr. مروه محمد فؤاد

Role of external evaluator: Non

## 4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

## 5- Administrative constraints (List any difficulties encountered)

➤ Non

## 6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	يري بعض عدم اهمية لدراسة العلوم الانسانية في لطلاب كلية الهندسة	تخصيص اكثر من محاضرة لتوضيح اهمية دراسة العلوم الانسانية في الحياة العملية بجانب دراسة التخصص
(b)	يري بعض الطلاب اضافة بعض الموضوعات التي تناسب تخصصهم ودراستهم للهندسة	تخصيص محاضرتين يعرض فيها الطلبة بعض المهارات التي تساعد في الحياة العملية مثل العمل الفرقي او الاقتناع

## 7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	Non

8- Written Exam Evaluation

9- Course enhancement:

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
Non	January 2015	Prof. Dr. مروه محمد فؤاد

Course coordinator: Prof. Dr. مروه محمد فؤاد

Signature:

Date: September 1, 2015

(GEN 353) ادارة أعمال دولية

Annual Course Report  
Academic year 2014-2015

**A- Basic Information**

1- Course Code & Title:(GEN 353) ادارة أعمال دولية

2- Program(s) on which this course is given:

Electronic Engineering and Communication Technology BSc Program  
Computer Engineering and Information Technology BSc Program

3- Year/Level of program: 10<sup>th</sup> Semester

4- Credit hours

Credit	2 hrs	Lectures	2 hrs	Tutorial	-	Practical	-
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5- Names of lecturers contributing to the delivery of the course: Prof. Dr. شيماء لطفى

6- Course coordinator: Prof. Dr شيماء لطفى

7- External evaluator: Non

**B- Statistical Information**

19- No. of students attending the course:

No. ٢٥٠ 100 %

20- No. of students completing the course:

No. ٢٣٧ ٨٤.٤ %

21- Results:

	No.	%
Passed	٢٣٧	٨٤.٤
Failed	١٣	٥.٦

Grading of successful students:		
Grade	No.	%
Excellent	٠	٠
Very Good	٦	١٣.٦
Good	10	22.7
Pass	8	18.2

**C- Professional Information**

1 – Course teaching

Topic	Total hours		Lecturer
	Plan.	Actual	
مفهوم الادارة			Prof. Dr. شيماء لطفى
مفهوم التخطيط			
صناعة واتخاذ القرارات			
الهيكل التنظيمية			
القيادة والتوجيه			
ادارة الأعمال الدولية			
مفهوم ادارة الجودة الشاملة			
<b>Total hours</b>			

Topics taught as a percentage of the content specified: >90 % 70-90 % <70%

Reasons in detail for not teaching any topic: Non

If any topics were taught which are not specified, give reasons in detail: Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable
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a1 to a3	b1 to b3	-	skills d1 to d3
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## 2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving and modeling  
 Practical training/ laboratory: Non  
 Seminar/Workshop: Lecture  
 Class activity: Non  
 Case Study: Selected case studies  
 Other assignments/homework: Bi-weekly assignments and reports  
 If teaching and learning methods were used other than those specified, give reasons: Non

## 3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	30	30
Mid-Term Exam	Non	0
Total	100	100

Members of examination committee: Dr. شيماء لطفى

Role of external evaluator: Non

## 4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

## 5- Administrative constraints (List any difficulties encountered)

➤ Non

## 6- Student evaluation of the course:

Non

## 7- Comments from external evaluator(s):

	Comment	Response of course team
(a)	Non	Non

## 8- Written Exam Evaluation

## 9- Course enhancement:

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
Non	January 2015	Prof. Dr shimaa lotfy

Course coordinator: Prof. Dr. شيماء لطفى

Signature:

Date: September 1, 2015



**(MEC 101) Mechanics  
Annual Course Report  
Academic year 2014-2015**

**A- Basic Information**

1- Course Code & Title: (MEC 101) Mechanics

2- Program(s) on which this course is given:

Manufacturing Engineering and Production Technology BSc Program

Electronic Engineering and Communication Technology BSc Program

Computer Engineering and Information Technology BSc Program

Architecture Engineering and Building Technology BSc Program

3- Year/Level of program: First Year/First Semester

4- Credit hours

Credit	2 hrs	Lectures:	1 hrs	Tutorial	3 hrs	Practical	
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5- Names of lecturers contributing to the delivery of the course:

Prof. Dr. Eng. Hassan Awad / Dr. Moamen Wafaie & Dr. Shymaa Lotfy

6- Course coordinator: Prof. Dr. Eng. Hassan Awad

7- External evaluator: Non

**B- Statistical Information**

22- No. of students attending the course:

No.	1200	100	%
No.	1126	93.8	%

23- No. of students completing the course:

24- Results:

	No.	%
Passed	899	79.8
Failed	227	20.2

Grading of successful students:		
Grade	No.	%
Excellent	135	12.2
Very Good	183	16.1
Good	236	20.9
Pass	345	30.6

**C- Professional Information**

1 – Course teaching

Topic				Tutorial hours
1	Forces in plane	2	4	2
2	Component of a Force- Rectangular Component – Resultant	2	5	3
3	Force in space	4	10	6
4	Force defined by its magnitude and two points on its line of action	2	6	4
5	Moment of a force about a point	2	4	2
6	Rectangular Components of the moment of a Force	2	6	4
7	Moment of a fore about a specified axis- moment of a couple	2	6	4
8	Equivalent system – Resultants of a force and couple sys	3	7	4
9	Support reaction in plane	4	10	6
10	Support reaction in space	3	7	4
11	Trusses	4	10	6
<b>Total hours</b>		<b>30</b>	<b>75</b>	<b>45</b>

Topics taught as a percentage of the content specified: More than 95 %

Reasons in detail for not teaching any topic:

Non

If any topics were taught which are not specified, give reasons in detail:

Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a5	b1 to b6	None	d1 to d3

## 2- Teaching and learning methods:

Lectures: Lecture, discussions, tutorials, problem solving

Practical training/ laboratory:

Seminar/Workshop:

Class activity Numerical exercises; solution of problems

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

## 3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

Members of examination committee: Prof. Dr. Eng. Hassan Awad ,  
Dr. Moamen Wafaie and  
Dr. Shymaa Lotfy

Role of external evaluator: Non

## 4- Facilities and teaching materials:

Totally adequate	
Adequate to some extent	Yes
Inadequate	

List any inadequacies: Non

## 5- Administrative constraints (List any difficulties encountered)

➤ Non

## 6- Student evaluation of the course:

	List any criticisms	Response of course team
(a)	It is recommended to solve more examples in the exercises	Only a balanced proportion of numerical exercises are solved in the class, the rest are presented as assignments

(b)	The assignment are corrected without giving detailed comments concerning the correct answers	The correct results of problems solutions of problems will be presented during the exercises periods
(c)	It is recommended to announce the points of mid- term, rather than the grades.	The form and timing of declaration of year work evaluation results follow the Academy policy.

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	

**8- Written Exam Evaluation**

- Low success percentage in question 4 of the final written exam implies the need to revise the teaching and learning activity of the control system stability analysis and design of convenient controller, by adding more exercises, assignments reports and quizzes.
- The whole exam result shows considerable weakness in report writing and English language level.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
None	None	None

**9- Action plan for academic year 2013 – 2014**

Actions required	Completion date	Person responsible
None	None	None

**Course coordinator:** Prof. Dr. Eng. Hassan Awad

**Signature:**

**Date:** September 24, 2015

## MEC 102 : Mechanics-2

### Annual Course Report Academic year 2012-2013

#### A- Basic Information

1- Course Code & Title: MEC 102 : Mechanics-2

2- Program(s) on which this course is given: Basic science department

3- Year/Level of program: second Semester

4- Credit hours

Credit	2 hrs	Lectures	1 hrs	Tutorial	3	-	Practical	-
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5- Names of lecturers contributing to the delivery of the course: Prof. Dr.Hassan Awad

6- Course coordinator: Prof.Dr. Hassan Awad

7- External evaluator: Non

#### B- Statistical Information

1- No. of students attending the course:

No.	1221	100	%
No.	1221	1000	%

2- No. of students completing the course:

3- Results:

	No.	%
Passed	1014	83.05
Failed	207	16.95

Grading of successful students:		
Grade	No.	%
Excellent	174	14.25
Very Good	209	17.12
Good	283	23.18
Pass	348	28.5

#### C- Professional Information

1 - Course teaching Topics taught as a percentage of the content specified:

>90 % 100 70-90 % <70%

##### Contents

Topic	Lecture hours	Tutorial hours
➤ Rectilinear Motion of particles.	1	4
➤ Determination of the motion of a particle.	1	4
➤ Graphical Solution of Rectilinear Motion.	1	4
➤ Curvilinear Motion of particle, Free Flight Motion.	2	4
➤ Curvilinear Motion of particle:		
➤ Normal and Tangent.	1	4

➤ Plane Curvilinear Motion.	1	4
➤ Polar Coordinates.	1	4
➤ Kinetics of Particles, Force and acceleration.	2	4
➤ Kinetics of Particles Energy and Momentum Methods	2	4
➤ Motion under a conservative central force.	1	4
➤ Principle of Impulse and Momentum for particle.	2	5
<b>Total hours</b>	<b>15</b>	<b>45</b>

Reasons in detail for not teaching any topic

Non

If any topics were taught which are not specified, give reasons in detail:

Non

Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a5	b1 to b2	c1 to c3	d1 to d2

## 2- Teaching and learning methods:

Lectures: Lecture, discussions, problem solving and modeling  
 Practical training/ laboratory: Non  
 Seminar/Workshop: Lecture  
 Class activity: Non.

Case Study: Selected case studies

Other assignments/homework: Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

## 3- Student assessment:

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	20	20
Mid-Term Exam	10	10
Total	100	100

Members of examination committee: Prof.Dr. Hassan Awad

Role of external evaluator: Non

## 4- Facilities and teaching materials:

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies:

Non

**5- Administrative constraints** (List any difficulties encountered)

➤ Non

**6- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	Non

**7- Written Exam Evaluation**

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion: Non

**9- Action plan for academic year 2013 – 2014**

Actions required	Completion date	Person responsible
Non	December 2013	Prof. Dr. Hassan Awad

**Course coordinator:** Prof. Dr . Hassan Awad

**Signature:**

**Date:** December , 2013

(MTH 207) Numerical Analysis  
Annual Course Report

Academic year 2014-2015

**A- Basic Information**

1- Course Code & Title: (MTH 207) Numerical Analysis

2- Program(s) on which this course is given:

Manufacturing Engineering and Production Technology BSc Program

3- Year/Level of program: Sophomore, Fourth Semester

4- Credit hours

Credit	3 hrs.	Lectures:	2 hrs.	Tutorial	2 hrs.	Practical
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4- Names of lecturers contributing to the delivery of the course:

Dr. S. Shenawy

6- Course coordinator: Dr. Sameh Shenawy

7- External evaluator: Non

**B- Statistical Information**

1- No. of students attending the course:

No.	142	100	%
No.	142	100	%

2- No. of students completing the course:

3- Results:

	No.	%
Passed	114	80
Failed	28	20

Grading of successful students:		
Grade	No.	%
Excellent	14	9.85
Very Good	17	11.97
Good	35	24.65
Pass	48	33.8

**C- Professional Information**

**1 – Course teaching**

Topic		Lecture	Actual	Tutorial hours
1	Curve fitting and linear Approximation of a function.	3	3	3
2	Polynomial interpolation and error estimation in the interpolation formula	2	2	2
3	Lagrange interpolation	2	2	2
4	Newton –interpolation	2	2	2
5	Hermit interpolation.	2	2	2
6	Newton-Cotes formula, composite Newton-cotes formula	2	2	2
7	Romberg – Steifel integration method.	2	2	2
8	Numerical solution of initial value problems	3	2	2
9	Numerical solution of first order methods Runge- Kutta methods	4	2	2
10	Multistep methods.	2	2	2
11	Numerical solution of linear and non-linear equation, Gauss-Seidel method.	4	4	4
12	Numerical solution of nonlinear equations the fixed point iteration method,	2	2	2
13	Newton-Raphson method.	2	2	2
<b>Total hours</b>		<b>30</b>	<b>27</b>	<b>27</b>

Topics taught as a percentage of the content specified:

More than 95 %

Reasons in detail for not teaching any topic:

Non



If any topics were taught which are not specified, give reasons in detail:

Non

Achieved program intended learning outcomes, ILO's:

A1,A5,B1,B2,B3,B11,D3,D4,D7

**2- Teaching and learning methods:**

**Lectures:** Lecture, discussions, tutorials, problem solving  
**Class activity** Numerical exercises; solution of problems  
**Case Study:** Selected case studies  
**Other assignments/homework:** Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

**3- Student assessment:**

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

**Members of examination committee:** Dr. S. Shenawy

**Role of external evaluator:** Non

**4- Facilities and teaching materials:**

Totally adequate	
Adequate to some extent	Yes

Inadequate	
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List any inadequacies:

This needs a computer Lab

**5- Administrative constraints** (List any difficulties encountered)

List any criticisms	Response of course team
Announcing of assignments grades	We will announce these grades.

**7- Comments from external evaluator(s):**

Comment	Response of course team
None	None

**8- Written Exam Evaluation**

The results of the course are normally distributed with mean at 70% and with standard deviation 20. This means that the main objectives of the course are achieved for most of the students.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
Adding applications in manufacturing technology.	Done	None

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
A complete sheet describing students assessments.	Annually starting from May 2016	Dr. S. Shenawy

**Course coordinator:** Prof. Dr. S. Shenawy

**Signature:**

**Date:** July 15, 2015

**(MTH 208) Statistical Mathematics for Architectural Engineering**  
**Annual Course Report**  
**Academic year 2014-2015**

**A- Basic Information**

1- Course Code & Title: (MTH 208) Statistical Mathematics for Architectural Engineering

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology BSc Program

3- Year/Level of program: Sophomore, Fourth Semester

4- Credit hours

Credit	2 hrs.	Lectures:	1 hrs.	Tutorial	3 hrs.	Practical	
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4- Names of lecturers contributing to the delivery of the course:

Dr. S. Shenawy

6- Course coordinator: Dr. S. Shenawy

7- External evaluator: Non

**B- Statistical Information**

1- No. of students attending the course:	No.	426	100	%
2- No. of students completing the course:	No.	426	100	%

3- Results:

	No.	%
Passed	357	83.8
Failed	69	16.2

Grading of successful students:		
Grade	No.	%
Excellent	53	12.4
Very Good	55	12.9
Good	101	23.7

Pass	148	34.74
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**C- Professional Information**

**1 – Course teaching**

Topic		Lecture	Actual	Tutorial hours
1	Functions, curve equation relationship.	1	1	3
2	Set theory, Random events, and probability functions.	1	1	2
3	Mathematical expectation.	1	1	2
4	Conditional probability.	1	1	2
5	Discrete distribution.	1	1	2
6	Binomial distribution.	1	1	2
7	Continuous distribution.	1	1	2
8	Normal distribution.	1	1	2
9	Sampling and the central limit theorem.	1	1	2
10	Estimation, hypothesis testing.	1	1	2
11	Regression and correlation.	1	1	4
12	Chi-square analysis and analysis of variance.	1	1	2
<b>Total hours</b>		<b>15</b>	<b>15</b>	<b>45</b>

Topics taught as a percentage of the content specified:

More than 95 %

Reasons in detail for not teaching any topic:

Non

If any topics were taught which are not specified, give reasons in detail:

Non

**Achieved program intended learning outcomes, ILO's:**

A1, A2, A5, B1, B2, B3, B7, B11, C1, C2, C12, D3, D4, D7

**2- Teaching and learning methods:**

**Lectures:** Lecture, discussions, tutorials, problem solving  
**Class activity** Exercises; solution of problems  
**Case Study:** Selected case studies  
**Other assignments/homework:** Bi-weekly assignments and reports

**If teaching and learning methods were used other than those specified, give reasons:** Non

**3- Student assessment:**

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

**Members of examination committee:** Dr. S. Shenawy

**Role of external evaluator:** Non

**4- Facilities and teaching materials:**

Totally adequate	
Adequate to some extent	Yes

Inadequate	
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List any inadequacies:

This needs a computer Lab

**5- Administrative constraints** (List any difficulties encountered)

Non

**6- Student evaluation of the course:**

List any criticisms	Response of course team
They want to study announcing the assessment grades.	They are completely right. Next semester we will announce the assessment results.

**7- Comments from external evaluator(s):**

Comment	Response of course team
None	None

**8- Written Exam Evaluation**

The results of the course are normally distributed with mean at 68% and with standard deviation 18. This means that the main objectives of the course are achieved for most of the students.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
Adding applications in Architectural and building technology.	Done	None

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
A complete sheet describing the student assessment process	Annually starting from May 2016	Dr. S. Shenawy

Course coordinator: Dr. S. Shenawy

Signature:

Date: July 24, 2015

**(MTH 305) Introduction to Prob. and Statistics**

**Annual Course Report**

**Academic year 2014-2015**

**A- Basic Information**

**1- Course Code & Title: (MTH 305) Introduction to Prob. and Statistics**

**2- Program(s) on which this course is given:**

Computer Engineering and Information Technology BSc Program  
 Electronic Engineering and Communication Technology BSc Program

**3- Year/Level of program:** Fifth Semester (Junior)

**4- Credit hours**

<b>Credit:</b>	2 hrs.	<b>Lectures:</b>	1 hrs.	<b>Tutorial:</b>	3 hrs.	<b>practical</b>	-
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**4- Names of lecturers contributing to the delivery of the course:**

Dr. S. Shenawy

**6- Course coordinator:** Dr. S. Shenawy

**7- External evaluator:** Non

**B- Statistical Information**

**1- No. of students attending the course:**

<b>No.</b>	<b>197</b>	<b>100</b>	<b>%</b>
<b>No.</b>	<b>197</b>	<b>100</b>	<b>%</b>

**2- No. of students completing the course:**

**3- Results:**

	<b>No.</b>	<b>%</b>
Passed	172	87.31
Failed	25	12.69

<b>Grading of successful students:</b>		
<b>Grade</b>	<b>No.</b>	<b>%</b>
Excellent	30	15.23
Very Good	49	24.87
Good	50	25.38
Pass	43	21.83



**C- Professional Information**

**1 – Course teaching**

Topic		Lecture	Actual	Tutorial hours
1	Introduction, Sample space, Axioms of probability	2	2	6
2	Conditional probability Bay's theorem	2	2	6
3	Random variables.	1	1	3
4	Binomial distribution.	2	2	6
5	Normal distribution.	1	1	3
6	Cumulative distribution.	1	1	3
7	Standard normal distribution.	1	1	3
8	Introduction to Statistics, measure of location (sample mean)	2	1	6
9	Median and mode.	1	1	3
10	Measures of variations	2	2	6
<b>Total hours</b>		<b>15</b>	<b>14</b>	<b>45</b>

Topics taught as a percentage of the content specified: More than 90 %

Reasons in detail for not teaching any topic:

Non

If any topics were taught which are not specified, give reasons in detail:

Non

Achieved program intended learning outcomes, ILO's:

A1, A2, A5, B1, B2, B3, B7, B11, C1, C2, C12, D3, D7

**2- Teaching and learning methods:**

**Lectures:** Lecture, discussions, tutorials, problem solving

**Class activity** Exercises; solution of problems  
**Case Study:** Selected case studies  
**Other assignments/homework:** Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

**3- Student assessment:**

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

**Members of examination committee:** Dr. S. Shenawy

**Role of external evaluator:** Non

**4- Facilities and teaching materials:**

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies:

**5- Administrative constraints** (List any difficulties encountered)

Non

**6- Student evaluation of the course:**

	List any criticisms	Response of course team
(a)	They want more exercises in the class and more practice problems.	They are completely right. Next semester we will do this.

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	Non

**8- Written Exam Evaluation**

The results of the course are normally distributed with mean at 72% and with standard deviation 15. This means that the main objectives of the course are achieved for most of the students.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not complete and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
This is the first semester	Non	Non

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
Adding more examples and practice problems to class works	June 2015	Dr S. Shenawy

**Course coordinator:** Dr. S. Shenawy

**Signature:**

**Date:** September 11, 2015

**(MTH 305) Introduction to Prob. and Statistics**

**Annual Course Report**

**Academic year 2014-2015**

**A- Basic Information**

1- **Course Code & Title:** (MTH 305) Introduction to Prob. and Statistics

2- **Program(s) on which this course is given:**

Manufacturing Engineering and Production Technology BSc Program

3- **Year/Level of program:** Fifth Semester (Junior)

4- **Credit hours**

**Credit:** 3 hrs      **Lectures:** 2 hrs      **Tutorial:** 2 hrs

5- **Names of lecturers contributing to the delivery of the course:** Dr. S. Shenawy

6- **Course coordinator:** Dr. S. Shenawy

7- **External evaluator:** Non

**B- Statistical Information**

1- **No. of students attending the course:**

No.	109	100	%
No.	109	100	%

2- **No. of students completing the course:**

3- **Results:**

	No.	%
Passed	95	87.16
Failed	14	12.84

Grading of successful students:		
Grade	No.	%
Excellent	13	15.23
Very Good	29	24.87
Good	28	25.38
Pass	25	22.94

**C- Professional Information**

**1 – Course teaching**

Topic		Lecture	Actual	Tutorial hours
1	Introduction, Sample space, Axioms of probability	2	2	6
2	Conditional probability Bay's theorem	2	2	6
3	Random variables.	1	1	3
4	Binomial distribution.	2	2	6
5	Normal distribution.	1	1	3
6	Cumulative distribution.	1	1	3
7	Standard normal distribution.	1	1	3
8	Introduction to Statistics, measure of location (sample mean)	2	1	6
9	Median and mode.	1	1	3
10	Measures of variations	2	2	6
<b>Total hours</b>		<b>15</b>	<b>14</b>	<b>45</b>

Topics taught as a percentage of the content specified: More than 90 %

Reasons in detail for not teaching any topic:

Non

If any topics were taught which are not specified, give reasons in detail:

Non

Achieved program intended learning outcomes, ILO's:

A1, A2, A5, B1, B2, B3, B7, B11, C1, C2, C12, D3, D7

**2- Teaching and learning methods:**

**Lectures:** Lecture, discussions, tutorials, problem solving

**Class activity** Exercises; solution of problems

**Case Study:** Selected case studies

**Other assignments/homework:** Bi-weekly assignments and reports

If teaching and learning methods were used other than those specified, give reasons: Non

**3- Student assessment:**

Method of assessment	Points	%
Written examination	70	70
Oral examination	Non	0
Practical/laboratory work	Non	0
Other assignments/class work	15	15
Mid-Term Exam	15	15
Total	100	100

**Members of examination committee:** Dr. S. Shenawy

**Role of external evaluator:** Non

**4- Facilities and teaching materials:**

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies:

**5- Administrative constraints** (List any difficulties encountered)

Non

**6- Student evaluation of the course:**

	List any criticisms	Response of course team
(a)	They want to study some applications in manufacturing and production technology.	They are completely right. Next semester we will add such examples.

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	Non

**8- Written Exam Evaluation**

The results of the course are normally distributed with mean at 68% and with standard deviation 18. This means that the main objectives of the course are achieved for most of the students.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
This is the first semester	Non	Non

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
Adding more examples related to manufacturing	June 2015	Dr S.

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technology		Shenawy
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**Course coordinator:** Prof. Dr S. Shenawy

**Signature:**

**Date:** January 11, 2015



**(PHY 101) Physics**  
**Annual Course Report**  
**Academic year 2014-2015**

**A- Basic Information**

**1- Course Code & Title:** (PHY 101) Physics

**2- Program(s) on which this course is given:** Manufacturing Engineering and Production Technology BSc Program  
Electronic Engineering and Communication Technology BSc Program  
Computer Engineering and Information Technology BSc Program  
Architecture Engineering and Building Technology BSc Program

**3- Year/Level of program:** First Year/Second Semester

**4- Credit hours**

Credit 3 hrs Lectures 2 hrs Tutorial 1 hrs Practical 2 hr

**5- Names of lecturers contributing to the delivery of the course:** Dr. Marwa Y. Shoeib

**6- Course coordinator:** Dr. Marwa Y. Shoeib

**7- External evaluator:** Non

**B- Statistical Information**

**25- No. of students attending the course:**

No.	1242	100	%
No.	1242	100	%

**26- No. of students completing the course:**

**27- Results:**

	No.	%
Passed	1136	91.47
Failed	106	8.53

Grading of successful students:		
Grade	No.	%
Excellent	461	37.12
Very Good	258	20.77
Good	214	17.23
Pass	203	16.34

**C- Professional Information**

**1 – Course teaching**

Topic	Total hours		Lecturer
	Plan.	Actual	
• Rotational motion and the Gravitational Law.	10	10	Prof. Dr. El-Tawab Kamal
• Elasticity and Energy Stored in a wire.	6	8	
• Fluid Flow and Fundamental Laws of Fluid Mechanics.	6	8	
• Viscosity and Poiseuille's Law	3	4	
• Temperature and Heat Transfer.	7	8	
• Thermodynamics and the Kinetic Theory of Gases.	6	8	
• Simple Harmonic Motion.	4	0	
• Wave Motion and Energy Transmitted by Sinusoidal Waves.	6	0	
• Sound waves and Doppler's Effect.	6	0	
<b>Total hours</b>	54	46	

Topics taught as a percentage of the content specified: >90 % 70-90 % <70%  
 Reasons in detail for not teaching any topic:  
 There was no time  
 If any topics were taught which are not specified, give reasons in detail:  
 Non  
 Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a7	b1 to b3	c1 to c4	d1 to d3

**2- Teaching and learning methods:**

Lectures: Lecture, discussions, tutorials and problem solving  
 Practical training/ laboratory: Practical Training and experimental measurements in Lab  
 Seminar/Workshop: Non  
 Class activity Exercises; solution of problems and data show.  
 Other assignments/homework: Bi-weekly assignments and reports  
 If teaching and learning methods were used other than those specified, give reasons: Non

**3- Student assessment:**

Method of assessment	Points	%
Written examination	60	60
Oral examination	Non	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

**Members of examination committee:** Dr. Marwa Y. Shoeib and Dr. Nagat A. Elmahdy

**Role of external evaluator:** Non

**4- Facilities and teaching materials:**

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

**5- Administrative constraints (List any difficulties encountered)**

➤ Non

**6- Student evaluation of the course:**

	List any criticisms	Response of course team
(a)	it is recommended to solve more examples in the exercises	Only a balanced proportion of exercises are solved in the class, the rest are presented as assignments
(b)	The assignment are corrected without	The correct results of problems solutions of

	giving detailed comments concerning the correct answers	problems will be presented during the exercises periods
(c)	It is recommended to announce the points of mid-term, rather than the grades.	The form and timing of declaration of year work evaluation results follow the Academy policy.

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	

**8- Written Exam Evaluation**

- High success percentage in the good level of the final written exam.
- The whole exam result shows considerable weakness in report writing and English language level.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
(d) Adding more assignments reports and quizzes.	September 2015	(a) More assignments were prepared.
(e) The department discussed the need for more advanced laboratory experiences, especially in the area of Thermodynamics.		(b) Three experiments are already added on September 2014.

**9- Action plan for academic year 2015 – 2016**

Actions required	Completion date	Person responsible
<ol style="list-style-type: none"> <li>1. The department discussed the need for more advanced laboratory experiences.</li> <li>2. Acquaint students with several lab apparatus and experimental demonstrations. Forming groups to conduct laboratory exercises.</li> <li>3. Organize group participation in collecting physics bulletins, magazines, news letters etc., and other international collaborations.</li> </ol>	December 2016	All group members and course instructors

**Course coordinator:** Dr. Marwa Y. Shoeib

**Signature:**

**Date:** October 6, 2015

**(PHY 102) Physics**  
**Annual Course Report**  
**Academic year 2014-2015**

**A- Basic Information**

**1- Course Code & Title: (PHY 102) Physics**

**2- Program(s) on which this course is given:**

Manufacturing Engineering and Production Technology BSc Program  
Electronic Engineering and Communication Technology BSc Program  
Computer Engineering and Information Technology BSc Program  
Architecture Engineering and Building Technology BSc Program

**3- Year/Level of program:** First Year/Second Semester

**4- Credit hours**

Credit	3 hrs	Lectures	2 hrs	Tutorial	1 hrs	Practical	2 hr
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**5. Names of lecturers contributing to the delivery of the course:**

Dr. El-Tawab Kamal / Dr. Abo el Yazeed B. Abo el Yazeed / Dr. Marwa Y. Shoeib & Dr. Nagat A. Elmahdy

**6- Course coordinator:** Dr. El-Tawab Kamal

**7- External evaluator:** Non

**B- Statistical Information**

**28- No. of students attending the course:**

No.	1025	100	%
No.	1025	100	%

**29- No. of students completing the course:**

**30- Results:**

	No.	%
Passed	881	85.95
Failed	144	14.05

Grading of successful students:		
Grade	No.	%
Excellent	47	5.33
Very Good	260	25.51
Good	244	27.70
Pass	330	37.46

**C- Professional Information**

**1 – Course teaching**

Topic	Total hours		Lecturer
	Plan.	Actual	
• Charge and Matter, The Electric Field, Gauss' law	10	12	Dr. El-Tawab Kamal
• Gauss's law applications	4	8	
• Electric Potential	6	6	
• Capacitors and Dielectric	4	6	
• Current and Resistance, Electromotive force and Circuits	8	8	
• Ampere's law, Inductance	6	6	
• Magnetic Properties of matter	4	0	
• Electromagnetic Waves, Physical Optics, Polarization of light	4	0	
• Interference of light, Diffraction of light	6	0	
• Diffraction of light, Some applications	2	0	
<b>Total hours</b>	54	46	

Topics taught as a percentage of the content specified: >90 % 70-90 % <70%  
 Reasons in detail for not teaching any topic:  
 There was no time  
 If any topics were taught which are not specified, give reasons in detail:  
 Non  
 Achieved program intended learning outcomes, ILO's:

Knowledge & Understanding	Intellectual skills	Applied Skills	General transferable skills
a1 to a7	b1 to b3	c1 to c4	d1 to d3

**2- Teaching and learning methods:**

Lectures: Lecture, discussions, tutorials and problem solving  
 Practical training/ laboratory: Practical Training and experimental measurements in Lab  
 Seminar/Workshop: Non  
 Class activity Exercises; solution of problems and data show.  
 Other assignments/homework: Bi-weekly assignments and reports  
 If teaching and learning methods were used other than those specified, give reasons: Non

**3- Student assessment:**

Method of assessment	Points	%
Written examination	60	60
Oral examination	Non	0
Practical/laboratory work	20	20
Other assignments/class work	10	10
Mid-Term Exam	10	10
Total	100	100

**Members of examination committee:** Dr.El-Tawab Kamal, Prof. Dr. Abo el Yazeed B. Abo el Yazeed, Dr. Marwa Y. Shoeib and Dr. Nagat A. Elmahdy  
**Role of external evaluator:** Non

**4- Facilities and teaching materials:**

Totally adequate	Yes
Adequate to some extent	
Inadequate	

List any inadequacies: Non

**5- Administrative constraints (List any difficulties encountered)**

➤ Non

**6- Student evaluation of the course:**

	List any criticisms	Response of course team
(a)	it is recommended to solve more examples in the exercises	Only a balanced proportion of exercises are solved in the class, the rest are presented as

		assignments
(b)	The assignment are corrected without giving detailed comments concerning the correct answers	The correct results of problems solutions of problems will be presented during the exercises periods
(c)	It is recommended to announce the points of mid- term, rather than the grades.	The form and timing of declaration of year work evaluation results follow the Academy policy.

**7- Comments from external evaluator(s):**

	Comment	Response of course team
(a)	Non	

**8- Written Exam Evaluation**

- High success percentage in the good level of the final written exam.
- The whole exam result shows considerable weakness in report writing and English language level.

**9- Course enhancement:**

Progress on actions identified in the previous year's action plan. State whether or not completed and give reasons for any non-completion:

Actions required	Planned Completion date	Accomplishment
31- Add more experiments to Physics Laboratory	December 2018	Four experiments are already added on September 2015. One more is planned for May 2017

**9- Action plan for academic year 2013 – 2014**

Actions required	Completion date	Person responsible
1. adding more assignments reports and quizzes for Chapters 1 and 4	December 2016	Prof. Dr. El-Tawab Kamal

**Course coordinator:** Dr El-Tawab Kamal

**Signature:**

**Date:** September 2015



**2<sup>nd</sup> year Architecture**

S	Course	
	Code	Title
1	MTH 208	Statistical Mathematics for Arch. Engineering (8)
3	ARC 221	Architectural Design 1
2	ARC 211	Architectural Construction 1
4	ARC 213	Building Technology
5	ARC 214	Computer Applications 1
6	ARC 220	Theories of Architecture (1)
7	ARC 215	Properties & Resistance of Materials
8	ARC 223	Visual Training (1)
9	ARC 212	Architectural Construction 2
10	ARC 222	Architectural Design 2
11	ARC 241	History of Architecture (1)
12	ARC 216	Surveying
13	ARC 217	Theory of Structures
14	ARC 218	Sciagraphy and perspective





**MTH208 Mathematics -8**  
**Annual Course Report**  
**Academic year 2014-2015**

**A- Basic Information**

1- Title and code: MTH208 Mathematics -8

2- Program(s) on which this course is given: Basic Sciences Department

3- Year/Level of program: Sophomore -Level 2 – 4th Semester

4- Unit hours

Credit Hours: 2	Lectures: 1	Tutorial/Exercise: 3	Practical: -	Pre-requisite: MTH102
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5. Names of lecturers contributing to the delivery of the course

Prof. Dr. Osama El Giar

6. Course coordinator: Prof. Dr. Osama El Giar

**B- Statistical Information**

No. of students attending the course: No.  %

	No.	%
Passed	327	84.49
Failed	60	15.5

**Grading of successful students**

Grade	Student No.	%
A+	10	2.5
A	13	3.3
A-	29	7.4
B+	30	7.7
B	25	6.46
C+	43	11.11
C	46	11.88
D+	28	7.2
D	41	10.59
D-	62	16
F	60	15.5

1 – Course teaching

Topic	No. of hours	Lecturer
• Probability theorem	2	Prof. Dr. Osama El Giar
• Conditional probability.	2	
• Product rule & Bay's theorem.	2	
• Independent events.	2	
• Random variables.	2	
• Discrete distributions.	2	
• Poisson's distribution	2	
• continuous distribution - normal distribution	2	
• statistics sampling	2	
• Classical distribution.	2	
• Standard deviation, variance.	2	
• Standard deviation of grouped data.	2	
• linear regression analysis	2	
• Correlation coefficients.	2	
• final revision	2	
<b>Total hours</b>	<b>30</b>	

Topics taught as a percentage of the content specified:

>90 %  70-90 % <70%

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

Lectures:

Practical training/ laboratory

Site Visits

Seminar/Workshop:

Weekly

Class activity: Exercises, Quizzes

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Final examination	<input type="text" value="70%"/>
Practical/laboratory work	<input type="text" value="-- --"/>
Other assignments/class work	<input type="text" value="20 %"/>
Other assignments/researches	<input type="text" value="--"/>
Mid-Term Exam	<input type="text" value="10 %"/>
Total	100 %

Members of examination committee: Prof. Dr. Osama El Giar

Role of external evaluator

4- Facilities and teaching materials:

Totally adequate	<input type="text" value=".Yes."/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies	<input type="text" value="Non"/>

Course coordinator: Prof. Dr. Osama El Giar

Signature:

Date: August 2015

## **ARC 221 Architectural Design 1**

### **Annual Course Report**

### **Academic year 2014-2015**

#### **A- Basic Information**

**1- Title and code : ARC 221 Architectural Design 1**

**2- Program(s) on which this course is given:**

Architecture Engineering and Building Technology

**3- Year/Level of program:** Sophomore -Level 2 -3rd Semester

**4- Unit hours**

<b>Credit Hours: 3</b>	<b>Lectures: 1</b>	<b>Tutorial:6</b>	<b>Practical: -</b>	<b>Pre-requisite: None</b>
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**5- Names of lecturers contributing to the delivery of the course**

Prof. Dr. Ibrahim Gouda

**6- Course coordinator:** Prof. Dr. Ibrahim Gouda

**7- External evaluator:** None

#### **B- Statistical Information**

**No. of students attending the course (FALL) : No.** 438      **%** 100

**Results:**

	No.	%
<b>Passed</b>	401	91.6
<b>Failed</b>	37	8.2

**Grading of successful students**

Grade	Student No.	%
A+	0	0
A	1	0.2
A-	15	3.4
B+	25	5.7
B	41	9.4
C+	65	14.8
C	102	23.4
D+	43	9.88
D	65	14.8
D-	44	10.1
F	37	8.2

No. of students attending the course (SPRING): No.  %

Results:

	No.	%
Passed	45	95.7
Failed	2	4.2

Grading of successful students

Grade	Student No.	%
A-	3	6.3
B+	7	14.8
B	12	25.5
C+	8	17
C	5	10.6
D+	8	17
D-	2	4.2
F	2	4.2

### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. First Project: Dream House :Analysis of program elements	1	6	
2. Research on residential buildings	1	6	
3. Zoning ( bubble diagram – matrix of function )	1	6	
4. 3d modeling ( masses + site )	1	6	
5. Concept development till final approval	1	6	
6. Drawing layout by using glass box +4 elevations	1	6	
7. Mid-Term Exam	1	6	
8. Drawing final layout ( to scale )	1	6	
9. Drawing Ground floor plan	1	6	
10. Final plans	1	6	
11. Final elevations	1	6	
12. Drawing 2 sections	1	6	
13. Final sections	1	6	
14. Drawing final skis ( pre-complete project )	1	6	
15. Representing final project & Jury	1	6	
<b>Total hours</b>	15	90	

Topics taught as a percentage of the content specified:

>90 %  70-90 % <70%

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures:

Practical training/ laborat: Site Visits

Seminar/Workshop: Weekly

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="40 %"/>
Practical/laboratory work	<input type="text" value="-- --"/>
Other assignments/class work	<input type="text" value="20 %"/>
Other assignments/researches	<input type="text" value="20 %"/>
Mid-Term Exam	<input type="text" value="20 %"/>
<b>Total</b>	<b>100 %</b>

Members of examination committee: Prof. Dr. Ibrahim Gouda

Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Yes

Adequate to some extent

Inadequate

List any inadequacies

Non

Course coordinator: Prof. Dr. Ibrahim Gouda

Signature:

Date: August 2015



## **ARC 211 Architectural Construction 1**

### **Annual Course Report**

### **Academic year 2014-2015**

#### **A- Basic Information**

1- Title and code : ARC 211 Architectural Construction 1

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 2 - 3rd Semester

4- Unit hours

Credit Hours: 3	Lectures: 2	Tutorial:3	Practical: -	Pre-requisite: None
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5- Names of lecturers contributing to the delivery of the course

Dr. Anaheed Maher Waked

6 - Course coordinator: Dr. Anaheed Maher Waked

7 - External evaluator: None

#### **B- Statistical Information**

No. of students attending the course (FALL): No. 434                      % 100

Results:

	No.	%
<b>Passed</b>	400	92.2
<b>Failed</b>	34	7.8

Grading of successful students

Grade	Student No.	%
A+	20	4.6
A	49	11.29
A-	45	10.36
B+	48	11.06
B	56	12.9
C+	41	9.44
C	69	15.89
D+	9	2.07
D	36	8.295
D-	27	6.22
F	34	7.8

No. of students attending the course (SPRING): No.  %

**Results:**

	No.	%
Passed	45	95.75
Failed	2	4.25

**Grading of successful students**

Grade	Student No.	%
A	2	4.25
A-	1	2.12
B+	2	4.25
B	5	10.63
C+	3	6.38
C	9	19.14
D+	9	19.14
D	7	14.89
D-	7	14.89
F	19	4.2

**C- Professional Information**

**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Lecturer
1. Introduction & Elements of Building.	2	3	Dr. Anaheed Waked
2. Sequence of Building Construction.	2	3	
3. Construction Systems: Bearing walls.	2	3	
4. Construction Systems: Skeleton Construction.	2	3	
5. Foundations: Surface foundations.	2	3	
6. Foundations: Deep foundations.	2	3	
7. Mid Term Exam (M. T1).	2	3	
8. Brick walls: Types of brick & mortar	2	3	
9. Brick wall bonding: English Bond & Flemish Bond.	2	3	
10. Masonry walls: Classifications of stones – walling philosophy.	2	3	
11. Masonry walls: Sills – Cornices – Copings.		3	
12. Roof Structures: Linear structural elements – Surface resistant.	2	3	
13. R.C. floors & steel floors: Sections and details.	2	3	
14. Revision	2	3	
15. Revision	2	3	
<b>Total hours</b>	<b>30</b>	<b>45</b>	

Topics taught as a percentage of the content specified:

>90 %  70-90 % <70%

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail

None, all of the missed teaching hours were substituted, in addition to the seminars arranged during the students' free day.

**2- Teaching and learning methods:**

**Lectures:** Classical lecturing using the white board and overhead projector

**Practical training/ laboratory:**

**Seminar/Workshop:**

Two Seminars were arranged by the students:

- (a) Field studies in Architecture Construction
- (b) Construction Systems

**Class activity:** Drawing sheets, Freehand sketches

**Researches:** Field study research, Library research

**Other assignments/homework:** Drawing sheets

If teaching and learning methods were used other than those specified, list and give reasons: None

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	40 %
Oral examination	5 %
Drawing sheets	40 %
Researches	5 %
Mid-Term Exam	10 %
<b>Total</b>	<b>100 %</b>

**Members of examination committee:** Dr. Anaheed Maher

**4- Facilities and teaching materials:**

**Totally adequate** Yes.

**Adequate to some extent** .....

**Inadequate** .....

**List any inadequacies** Non

**5- Administrative constraints**

List any difficulties encountered:

**6- Student evaluation of the course:** Response of course team

**7- Comments from external evaluator(s):** Response of course team

Review the targeted learning outcomes      Increase the hours of lecturers  
Increase the number of the assistants

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan: Non

Action State whether or not completed and give reasons for any non-completion      Non

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
<input type="text" value="Non"/>		

**Course coordinator:** Dr. Anaheed Maher Waked

**Signature:**

**Date:** August 2015

## ARC213: BUILDING TECHNOLOGY

### *Annual Course Report*

### Academic Year 2014-2015

#### A- Basic Information

1- Title and code : ARC213: BUILDING TECHNOLOGY

2- Program(s) on which this course is given:

Architecture Engineering and building Technology

3- Year/Level of program: Sophomore -Level 2 - 3rd Semester

4- Unit hours

Credit Hours: 2	Lectures: 2	Tutorial: -	Practical: -	Pre-requisite: None
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5- Names of lecturers contributing to the delivery of the course

Dr. Asamer Zakaria

6- Course coordinator: Dr. Asamer Zakaria

7- External evaluator: None

#### B- Statistical Information

No. of students attending the course: No.

#### Results:

	No.	%
Passed	414	90.8
Failed	42	9.2

#### Grading of successful students

Grade	Student No.	%
A+	0	0
A	5	1.096
A-	6	1.315
B+	18	3.94
B	37	8.11
C+	76	16.66
C	200	43.85
D+	10	2.19
D	10	2.19
D-	52	11.4
F	42	9.2

## C- Professional Information

### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1- Introduction to building Technology.	2		
2- Construction Equipment (classifications & types).	2		
3- Construction Equipments(site,transportation&concrete equipments)	2		
4- Construction methods (traditional methods)	2		
5- Construction methods (new construction methods)1	2		
6- Construction methods (new construction methods)2			
7- Mid-Term Exam	2		
8- Construction methods (new construction methods)3	2		
9- Construction methods (new construction methods)4	2		
10- Future building technology & expected development in construction systems	2		
11- Prefabricated buildings.	2		
12- Modules of Prefabricated buildings.	2		
13- Structural units of Prefabricated buildings	2		
14- Prefabrication industry & construction future in Egypt	2		
15- Revision.	2		
Total hours	30		

Topics taught as a percentage of the content specified:

>90 %      70-90 %       <70%     

Reasons in detail for not teaching any topic

None

If any topics were taught which are not specified, give reasons in detail

None

### 2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

Seminar/Workshop:

Class activity:

exercises, , quizzes, problems

Researches: 3

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment	Percentage of total
Final examination	70 %
Oral examination	---
Practical/laboratory work	---%
Assignments/class work	20%
Mid-Term Exam	10 %
<b>Total</b>	<b>100 %</b>

Members of examination committee Dr. Asamer Zakaria

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate  yes

Adequate to some extent  .....

Inadequate  .....

List any inadequacies

None

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms

Response of course team

Visits and external tours are needed for more benefit	The actual content and number of lecturing hours are convenient now, considering the pre-determined graduate profile
---	--

**7- Comments from external evaluator(s):**

**Response of course team**

Review the professional and practical skills

Professional and practical skills had been updated

**8- Course enhancement:**

**Progress on actions identified in the previous year's action plan:**

**Action State whether or not completed and give reasons for any non-completion**

None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
1.		
2.		

**Course coordinator:** Dr. Asamer Zakaria

**Signature:**

**Date:**

August 2015



## ARC 214 Computer Applications 1

### Annual Course Report

### Academic year 2014-2015

#### A- Basic Information

1- Title and code: ARC 214 Computer Applications 1

2- Program(s) on which this course is given:

Architecture Engineering and building Technology

3- Year/Level of program: Sophomore -Level 2 - 3rd Semester

4- Unit hours

Credit Hours:4	Lectures: 2	Tutorial: 3	Practical: 2	Pre-requisite: CMP 110
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5- Names of lecturers contributing to the delivery of the course

Dr. Reham Mostafa (CAD) & Dr. Ahmad Saleh (CAD)

6- Course coordinator : Dr. Reham Mostafa (CAD)

7- External evaluator:

#### B- Statistical Information

No. of students attending the course (FALL): No. 327                      % 100

Results:

	No.	%
Passed	313	95.7
Failed	14	4.3

#### Grading of successful students

Grade	Student No.	%
A+	2	0.611
A	9	2.75
A-	22	6.72
B+	54	16.5
B	59	18.04
C+	63	19.26
C	51	15.59
D+	35	10.70
D	13	3.97
D-	5	1.529
F	14	4.3

## C- Professional Information

### 1 – Course Teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction & Getting Started	2	3	2
2. Drawing & Modifying Commands	2	3	2
3. Drawing & Modifying Commands	2	3	2
4. Layers Management	2	3	2
5. Advanced Layers Management	2	3	2
6. Revision	2	3	2
7. Mid Term Exam	2	3	2
8. Hatch Techniques & Blocks	2	3	2
9. Dimensions, Text & Project Introduction	2	3	2
10. Photo editing / Xref / Attributes / Design Centre / Tool Palettes	2	3	2
11. Plotting & Paper Space	2	3	2
12. Advanced Commands & Project Correction	2	3	2
13. Revision & Makeup classes	2	3	2
14. Project submission	2	3	2
15. Practical Exam	2	3	2
<b>Total hours</b>	<b>30</b>	<b>45</b>	<b>30</b>

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%  50 %

Reasons in detail for not teaching any topic

That is because, half the hours are lectures, and the other half is tutorial or practical in the computer labs.

If any topics were taught which are not specified, give reasons in detail

None

### 2- Teaching and learning methods:

Lectures:

Classical lecturing using the white board and computer supported learning, (net meeting system).

Practical training/ laboratory:  yes

Seminar/Workshop:

Class activity:

Exercises via computer; tutorial sheets, projects from various places, the use of other courses' materials as exercises. Other activities; oral discussions & testes, quizzes, and reviewing of notebooks.

Researches:  yes

Other assignments/homework:  weekly assignments

If teaching and learning methods were used other than, those specified, list and give reasons:

None

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="checkbox"/> 40 %
Practical exam	<input type="checkbox"/> 20 %
Project	<input type="checkbox"/> 10%
Assignments/quizzes	<input type="checkbox"/> 20%
Mid-Term Exam	<input type="checkbox"/> 10%
Total	<input type="checkbox"/> 100 %

Members of examination committee Dr. Reham Mostafa(CAD)-a & Dr. Ahmad Saleh (CAD)-b

Role of external evaluator  Non

**4- Facilities and teaching materials:**

Totally adequate

Adequate to some extent  yes

Inadequate

List any inadequacies

Not enough computers are available to support all the numbers of the students; they are less by almost half the number. Beside this, the computers are in need of series updating, to support the programs

**5- Administrative constraints**

**List any difficulties encountered**

None

**6- Student evaluation of the course:**

**List any criticisms**

**Response of course team**

(a)	Not enough computers and spaces	It will be considered in the upgrading plan.
(b)	Computers and their accessories do not work properly.	It will be considered in the upgrading plan.
(c)	Final exam needs to be, either practical, or change its written ordinary form, to a more adequate one to the nature of the course, in the type of questions.	The ability to change the exam from the ordinary one to the MCQ type is considered.

**7- Comments from external evaluator(s):**

**Response of course team**

Review the targeted learning outcomes

**The learning outcomes have been resived**

**Updated references**

**8- Course enhancement:**

**Progress on actions identified in the previous year's action plan:**

**Action State whether or not completed and give reasons for any non-completion**

None

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
None	None	None

**Course coordinator:** Dr. Reham Mostafa (CAD)& Dr. Ahmad Saleh (CAD)

**Signature:**

**Date:** August 2015

**ARC 220 Theories of Architecture - (1)**

**Annual Course Report**

**Academic year 2014-2015**

**A- Basic Information**

1- Title and code : ARC 220 Theories of Architecture - (1)

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 2 - 3rd Semester

4- Unit hours

Credit Hours: 2	Lectures: 2	Tutorial: -	Practical: -	Pre-requisite: None
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5- Names of lecturers contributing to the delivery of the course

Dr. Anaheed Maher Waked

6- Course coordinator: Dr. Anaheed Maher Waked

7- External evaluator: None

**B- Statistical Information**

No. of students attending the course (FALL): No. 434 % 100

Results:

	No.	%
Passed	410	94.5
Failed	24	5.5

Grading of successful students

Grade	Student No.	%
A+	3	0.701
A	9	2.10
A-	38	8.87
B+	41	9.6
B	63	14.5
C+	49	11.44
C	90	20.56
D+	38	8.87
D	41	9.57
D-	38	8.4
F	24	5.5

**No. of students attending the course (SPRING):**

No.  %

**Results:**

	No.	%
<b>Passed</b>	32	88.9
<b>Failed</b>	4	11.1

**Grading of successful students**

Grade	Student No.	%
A	1	2.77
A-	1	2.77
B	5	13.88
C+	4	11.1
C	6	16.66
D+	3	8.33
D	7	19.44
D-	5	13.88
F	4	11.1

**C- Professional Information**

**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction: about the relationship between architecture and theories of architecture.	2		
2. Architectural definitions and constrains	2		
3. Types and typologies of Buildings	2		
4. Design Process :-Briefing -Analysis	2		
5. Design Process: synthesis	2		
6. Design Process: Design- Appraisal Evaluation.- Communications	2		
7. Mid Term Exam	2		
8. Architectural Spaces is the basic of design and forming:1:- Architectural Spaces	2		
9. Architectural Spaces forming:2 :-Buildings and spaces elements	2		
10. Architectural Spaces forming: :circulation,vertical,horizontal	2		
11. Architectural Forming: Shape- Color- Texture	2		
12. The Principles of Architectural Forming Process:-	2		
13. Introduction about Architectural Theories: (Functionalism) , (Organism)	2		
14. Researches Discussion	2		

15. Researches Discussion	2		
<b>Total hours</b>	30		

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures :

Practical training/ laboratory:

Seminar/Workshop: Seminars were arranged by the students: To Represent the Researches

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Practical/laboratory work	<input type="text" value="...."/>
Other assignments/class work	<input type="text" value="10 %"/>
Other assignments/researches	<input type="text" value="10 %"/>
Mid-Term Exam	<input type="text" value="10 %"/>
<b>Total</b>	<b>100 %</b>

Members of examination committee

Dr. Anaheed Maher Waked

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

Non

5- Administrative constraints

List any difficulties encountered      None

6- Student evaluation of the course:      Response of course team

List any criticisms

7- Comments

from external evaluator(s):      Response of course team

Review the targeted learning outcomes      Increase the hours of lecturers

8- Course enhancement: Progress on actions identified in the previous year's action plan: This is the Second annual report

Action State whether or not completed and give reasons for any non-completion      Non

9- Action plan for academic year 2014 – 2015

Actions required	Completion date	Person responsible
Non		

Course coordinator: Dr .Anaheed Maher Waked

Signature:

Date:      August2015



**ARC 215: Properties & Resistance of Materials**

**Annual Course Report**

**Academic Year 2014-2015**

**A- Basic Information**

1- Title and code : ARC 215: Properties & Resistance of Materials

2- Program(s) on which this course is given:

Architecture Engineering and building Technology

3- Year/Level of program: level:Sophomore -Level 2 – 3rd Semester

4- Unit hours

Credit Hours:2	Lectures: 1	Tutorial:3	Practical: -	Pre-requisite:None
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5- Names of lecturers contributing to the delivery of the course

Dr. Adham El-Alfy Dr. Tamer Selim

6- Course coordinator: Dr. Adham El-Alfy

7- External evaluator: None

**B- Statistical Information**

No. of students attending the course (FALL): No. 416

% 100

Results:

	No.	%
Passed	400	96.15
Failed	16	3.85

Grading of successful students

Grade	Student No.	%
A+	8	1.92
A	41	9.85
A-	65	15.62
B+	69	16.58
B	58	13.94
C+	47	11.29
C	55	13.22
D+	14	3.36
D	21	5
D-	22	5.28
F	16	3.85

### C- Professional Information

#### 1 – Course teaching

	Topic	Lecture hours	Tutorial hours	Practical hours
1	▪ Types of structures. Types of loads and supports.	2	3	
2	▪ Resultant of loads. Reactions.	2	3	
3	▪ Simple and compound beams.	2	3	
4	▪ Concentrated loads and moments.	2	3	
5	▪ Equilibrium and stability in planner statically determined structures.	2	3	
6	▪ Trussed beams.	2	3	
7	▪ Mid Term Exam	2	3	
8	▪ Internal forces definition / Simple frames, frames with link members, and closed frames..	2	3	
9	▪ Internal forces in beams, frames, and arches.	2	3	
10	▪ Trusses; definition, method of joints and method of sections.	2	3	
11	▪ Stability conditions.	2	3	
12	▪ Uniform and triangular loads.	2	3	
13	▪ Normal stresses	2	3	
14	▪ Shear stresses	2	3	
15	▪ Combined stresses	2	3	
	<b>Total hours</b>	<b>30</b>	<b>45</b>	

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic  None

If any topics were taught which are not specified, give reasons in detail  None

#### 2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

Seminar/Workshop:

Class activity:

Exercises, quizzes

Researches:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Oral examination	---
Practical/laboratory work	---
Assignments/class work	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="10 %"/>
<b>Total</b>	<b>100 %</b>

Members of examination committee Dr. Adham El-Alfy

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate	<input type="text" value="yes"/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies	<input type="text" value="Non"/>

**5- Administrative constraints**

List any difficulties encountered  
 None

**6- Student evaluation of the course:**                      **Response of course team**  
 List any criticisms

here are insufficient solved examples in the text book	Examples in the text book is a sample, while the exercises given in the section is quietly adequate
--	---

**7- Comments from external evaluator(s):**  
 Review the targeted learning outcome

**Response of course team**  
 the learning outcomes have been revised and simplified

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Dr. Adham El-Alfy

Signature:

Date: August 2015

## ARC 223 Visual Training (1)

### Annual Course Report

### Academic year 2014-2015

#### A- Basic Information

- 1- Title and code: ARC 223 Visual Training (1)  
 2- Program(s) on which this course is given:  
 Architecture Engineering and Building Technology  
 3- Year/Level of program: level:Sophomore -Level 2 - 3rd Semester  
 4- Unit hours

Credit Hours:2	Lectures: 1	Tutorial :3	Practical: -	Pre-requisite:None
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5- Names of lecturers contributing to the delivery of the course

Dr. Mona El-Basyoni

6- Course coordinator: Dr. Mona El-Basyoni

7- External evaluator: None

#### B- Statistical Information

No. of students attending the course (FALL): No.  %

Results:

	No.	%
Passed	21	100
Failed	0	0

Grading of successful students

Grade	Student No.	%
A-	1	4.76
B	3	14.28
C+	3	14.28
C	3	14.28
D+	4	19.048
D	4	19.048
D-	3	14.28
F	0	0

### C- Professional Information

#### 1 – Course teaching

	Topic	Lecture hours	Tutorial hours	Practical hours
1	Thickness of lines using pencil.	1	3	-
2	Texture of different materials using pencil	1	3	-
3	Copying a drawing with different scale.	1	3	-
4	Different techniques for sketching.	1	3	-
5	Sketching 2D drawings.	1	3	-
6	Sketching 2D drawings/ Presentation for different architectural drawings.	1	3	-
7	Mid Term Exam	1	3	-
8	Techniques for sketching 3D drawings	1	3	-
9	Rules for freehand perspective.	1	3	-
10	Techniques for sketching 3D drawings.	1	3	-
11	Sketching 3D drawings from nature.	1	3	-
12	Sketching 3D drawings from nature.	1	3	-
13	Sketching 3D drawings from nature.	1	3	-
14	Shade and shadows in 3D drawings	1	3	-
15	Shade and shadows in 3D drawings	1	3	-
	<b>Total hours</b>	<b>15</b>	<b>45</b>	<b>-</b>

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic  Non

If any topics were taught which are not specified, give reasons in detail  Non

#### 2- Teaching and learning methods:

Lectures:

Practical training:

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="40%"/>
Other assignments/class work	<input type="text" value="50%"/>
Mid-Term Exam	<input type="text" value="10 %"/>
<b>Total</b>	<b>100 %</b>

Members of examination committee  
 Dr. Mona El. Basyoni  
 Dr. Amira Mostafa

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies:

**5- Administrative constraints**

List any difficulties encountered

- The drawing tables aren't suitable for freehand sketching

**6- Student evaluation of the course:**

List any criticisms	Response of course team
non	non

7- Comments from external evaluator(s):  Response of course team

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan:

Actions required	Planned Completion date	Accomplishment
None	-	-

Action State whether or not completed and give reasons for any non-completion

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
Non.	-	-

Course coordinator: Dr. Mona El-Basyoni

Signature:

Date: August 2015



## **ARC 222 Architectural Design 2**

### **Annual Course Report**

#### **Academic year 2014-2015**

#### **A- Basic Information**

1- Title and code : ARC 222 Architectural Design 2

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 2 – 4<sup>th</sup> Semester

4- Unit hours

<b>Credit Hours: 3</b>	<b>Lectures:1</b>	<b>Tutorial:6</b>	<b>Practical: -</b>	<b>Pre-requisite: ARC221</b>
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5- Names of lecturers contributing to the delivery of the course

Prof. Dr. Ibrahim Gouda

6- Course coordinator: Prof. Dr. Ibrahim Gouda

7- External evaluator: None

#### **B- Statistical Information**

No. of students attending the course (Spring) :      No. 396      % 100

Results:

	No.	%
<b>Passed</b>	379	95.7
<b>Failed</b>	17	4.2

**Grading of successful students**

Grade	Student No.	%
A	3	0.7
A-	12	3
B+	33	8.3
B	56	14.1
C+	52	13.1
C	109	27.5
D+	38	9.5
D	43	10.8
D-	33	8.3
F	17	4.2

No. of students attending the course (SUMMER) : No. 25 % 100

Results:

	No.	%
Passed	23	92
Failed	2	8

Grading of successful students

Grade	Student No.	%
B+	1	4
B	3	12
C+	1	4
C	5	20
D+	4	16
D	2	8
D-	7	28
F	2	8

## C- Professional Information

### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Choosing one project from 5 general projects	1	6	
2. Analysis of program elements	1	6	
3. Research on the chosen project	1	6	
4. Zoning ( bubble diagram , matrix of functions	1	6	
5. 3D modeling ( masses , site ) , skis	1	6	
6. Concept development , skis	1	6	
7. Mid Term Exam	1	6	
8. Final plans	1	6	
9. Final sections	1	6	
10. Final elevations	1	6	
11. 3D perspectives	1	6	
12. Development project till final approval	1	6	
13. Representing project by digital media or manual method	1	6	
14. Representing project by digital media or manual method	1	6	
15. Representing final project , jury	1	6	

Total hours	15	90	
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Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures:

Practical training/ laborat: Site Visits

Seminar/Workshop: Weekly

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="40 %"/>
Practical/laboratory work	<input type="text" value="-- --"/>
Other assignments/class work	<input type="text" value="20 %"/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="20%"/>
Total	100 %

Members of examination committee: Prof. Dr. Ibrahim Gouda

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate

Yes

Adequate to some extent

Inadequate

List any inadequacies

Non

**Course coordinator:** Prof. Dr. Ibrahim Gouda

**Signature:**

**Date:** August 2015

## ARC212 Architectural Construction 2

### Annual Course Report

Academic year 2014-2015

#### A- Basic Information

1- Title and code : ARC212 Architectural Construction 2

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 2 –4th Semester

4- Unit hours

Credit Hours:3	Lectures: 2	Tutorial:3	Practical: -	Pre-requisite: ARC 211
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5- Names of lecturers contributing to the delivery of the course

Dr. Anaheed Maher Waked

6- Course coordinator: Dr. Anaheed Maher Waked

7- External evaluator: None

#### B- Statistical Information

No. of students attending the course (SPRING): No.  %

Results:

	No.	%
Passed	321	95.8
Failed	17	4.2

Grading of successful students

Grade	Student No.	%
A+	72	17.64
A	50	12.25
A-	51	12.50
B+	42	10.29
B	45	11.02
C+	29	7.10
C	49	12.01
D+	13	3.18
D	21	5.14
D-	19	4.65
F	17	4.2

## C- Professional Information

### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Lecturer
1. Introduction & Elements of Building.	2	3	Dr. Anaheed Waked
2. Sequence of Building Construction.	2	3	
3. Construction Systems: Bearing walls.	2	3	
4. Construction Systems: Skeleton Construction.	2	3	
5. Foundations: Surface foundations.	2	3	
6. Foundations: Deep foundations.	2	3	
7. Mid Term Exam (M. T1).	2	3	
8. Brick walls: Types of brick & mortar	2	3	
9. Brick wall bonding: English Bond & Flemish Bond.	2	3	
10. Masonry walls: Classifications of stones – walling philosophy.	2	3	
11. Masonry walls: Sills – Cornices – Copings.		3	
12. Roof Structures: Linear structural elements – Surface resistant.	2	3	
13. R.C. floors & steel floors: Sections and details.	2	3	
14. Revision	2	3	
15. Revision	2	3	
<b>Total hours</b>	<b>30</b>	<b>45</b>	

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

None, all of the missed teaching hours were substituted, in addition to the seminars arranged during the students' free day.

### 2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

#### Seminar/Workshop:

- Two Seminars were arranged by the students:
- (c) Field studies in Architecture Construction
  - (d) Construction Systems

Class activity:

Drawing sheets, Freehand sketches

**Researches:** Field study research, Library research

**Other assignments/homework:** Drawing sheets

If teaching and learning methods were used other than those specified, list and give reasons: None

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	40 %
Oral examination	5 %
Drawing sheets	40 %
Researches	5 %
Mid-Term Exam	10 %
<b>Total</b>	<b>100 %</b>

**Members of examination committee:** Dr. Anaheed Maher,

**4- Facilities and teaching materials:**

Totally adequate	.Yes.
Adequate to some extent	.....
Inadequate	.....
List any inadequacies	Non

**5- Administrative constraints**

List any difficulties encountered: None

**6- Student evaluation of the course:** Response of course team

Non

**7- Comments from external evaluator(s):** Response of course team

Review the targeted learning outcomes      Increase the hours of lecturers  
 Increase the number of the assistants

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan: Non

Action State whether or not completed and give reasons for any non-completion

Non

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
Non	Non	Non

**Course coordinator:** Dr. Anaheed Maher Waked

**Signature:**

**Date:** August 2015



## ARC 241 History of Architecture(1)

### Annual Course Report

### Academic year 2014-2015

#### A- Basic Information

1. Title and code : ARC 241 History of Architecture(1)
2. Program(s) on which this course is given:  
Architecture Engineering and Building Technology
3. Year/Level of program: Sophomore -Level 2 –4th Semester
4. Unit hours

Credit Hours: 2	Lectures: 2	Tutorial: -	Practical: -	Pre-requisite: -
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5. Names of lecturers contributing to the delivery of the course  
Dr. Anaheed Maher Waked
6. Course coordinator: Dr. Anaheed Maher Waked
7. External evaluator : None

#### B- Statistical Information

No. of students attending the course ( spring):      No.       %

#### Results:

	No.	%
Passed	305	93.3
Failed	29	6.6

#### Grading of successful students

Grade	Student No.	%
A+	9	2
A	20	4.6
A-	43	9.9
B+	65	14.9
B	51	11.7
C+	55	12.6
C	66	15.2
D+	31	7.1
D	34	7.8
D-	31	7.1
F	29	6.6

### C- Professional Information

#### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. -Introduction : about history of architecture <u>Prehistoric architecture: Ancient Egyptian</u>	2		
2. The pharaonic Character and Features	2		
3. The Architectural Buildings(Tombs)	2		
4. The Architectural Buildings (Temples)	2		
5. The Architectural Buildings( Temples)	2		
6. <u>The Hellenistic Architecture:</u>	2		
7. Mid Term Exam	2		
8. <u>Greek Architecture:</u> Character and Features			
9. The Greek Columns ,Temples, Buildings	2		
10. <u>The Roman Architecture:</u> Features -Columns- temples	2		
11. Buildings (theater-Amphitheater-....	2		
12. Seminars	2		
13. Researches Discussion	2		
14. Researches Discussion	2		
15. Revision	2		
<b>Total hours</b>	30		

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

#### 2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

Seminar/Workshop: Seminars were arranged by the students: To Represent the Researches

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons: None

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	70 %
Practical/laboratory work	
Other assignments/class work	10 %
Other assignments/researches	10 %
Mid-Term Exam	10 %
<b>Total</b>	<b>100 %</b>

Members of examination committee Dr. Anaheed Maher Waked

Role of external evaluator Non

**4- Facilities and teaching materials:**

Totally adequate	.Yes.
Adequate to some extent	.....
Inadequate	.....
List any inadequacies	Non

**5- Administrative constraints**

List any difficulties encountered

None

**6- Student evaluation of the course:** Response of course team

List any criticisms

**7- Comments from external evaluator(s):** Response of course team

Review the targeted learning outcomes Increase the hours of lecturers

**Review professional skills**

**8- Course enhancement:**

**Progress on actions identified in the previous year's action plan:** This is the third annual report

**Action State whether or not completed and give reasons for any non-completion**      Non

**9- Action plan for academic year 2014– 2015**

<b>Actions required</b>	<b>Completion date</b>	<b>Person responsible</b>
Non		

**Course coordinator:** Dr .Anaheed Maher Waked

**Signature:**

**Date:**                      August, 2015

**ARC 216: Surveying**  
**Annual Course Report**  
**Academic Year 2014-2015**

**A- Basic Information**

1- Title and code : ARC 216: Surveying

2- Program(s) on which this course is given:

Architecture Engineering and building Technology

3- Year/Level of program: Sophomore -Level 2 – 4th Semester

4- Unit hours

Credit Hours:2	Lectures: 1	Tutorial: 1	Practical: 2	Pre-requisite: None
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5- Names of lecturers contributing to the delivery of the course

Dr. Amira abd El-Aziz

6- Course coordinator : Dr. Amira abd El-Aziz

7- External evaluator : None

**B- Statistical Information**

No. of students attending the course (SPRING):      No. 293                      % 100

Results:

	No.	%
Passed	384	92.53
Failed	31	7.47

Grading of successful students

Grade	Student No.	%
A+	45	10.843
A	54	13.012
A-	41	9.88
B+	55	13.25
B	52	12.53
C+	38	9.15
C	40	9.63
D+	17	4.09
D	24	5.78
D-	18	4.33
F	31	7.47

### C- Professional Information

#### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Definition of surveying.	1	1	2
2. Types of measurements.	1	1	2
3. Measurement errors.	1	1	2
4. Linear measurements.	1	1	2
5. Taping.	1	1	2
6. Distance corrections.	1	1	2
7. Mid-Term Exam	1	1	2
8. Leveling./ Types of Levels.	1	1	2
9. Profile and cross-sectional leveling.	1	1	2
10. Area computations	1	1	2
11. Angle measurements and Theodolites	1	1	2
12. Traverse surveys and computations	1	1	2
13. Contour Maps / Cut and Fill	1	1	2
14. Topographic surveying	1	1	2
15. Practical exam	1	1	2
<b>Total hours</b>	<b>15</b>	<b>15</b>	<b>30</b>

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

None

If any topics were taught which are not specified, give reasons in detail

None

#### 2- Teaching and learning methods:

Lectures:

Practical training/ laboratory:

Seminar/Workshop:

Class activity:

Exercises, quizzes, problems

Researches:

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	60 %
Oral examination	---
Practical/laboratory work	20%
Assignments/class work	10%
Mid-Term Exam	10 %
<b>Total</b>	<b>100 %</b>

Members of examination committee Dr. Amir Abdel Aziz

Role of external evaluator None

**4- Facilities and teaching materials:**

Totally adequate	yes
Adequate to some extent	.....
Inadequate	.....
List any inadequacies	Non.

**5- Administrative constraints**

List any difficulties encountered

None

**6- Student evaluation of the course:**

List any criticisms

Response of course team

what is the benefit of this study to arch students	survey is one of the most effective courses in the area of construction
--	---

**7- Comments from external evaluator(s):**

Response of course team None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion None

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Dr. Amira abd El-Aziz

Signature:

Date: August 2015



**ARC 217: Theory of Structures**  
**Annual Course Report**  
**Academic Year 2014-2015**

**A- Basic Information**

- 1- Title and code: **ARC 217: Theory of Structures**
- 2- Program(s) on which this course is given:  
 Architecture Engineering and building Technology
- 3- Year/Level of program: **Sophomore -Level 2 – 4th Semester**
- 4- Unit hours

Credit Hours:2	Lectures: 1	Tutorial: 3	Practical: -	Pre-requisite: None
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5- Names of lecturers contributing to the delivery of the course

Dr. Tamer Seleem Dr. Ayman Ezzat

6- Course coordinator: Dr. Tamer Seleem

7- External evaluator: None

**B- Statistical Information**

**No. of students attending the course (SPRING):**      No. 432                      % 100

Results:

	No.	%
<b>Passed</b>	366	84.7
<b>Failed</b>	66	15.3

**Grading of successful students**

Grade	Student No.	%
A+	4	0.9
A	23	5.32
A-	28	6.48
B+	42	9.72
B	40	9.25
C+	43	9.95
C	68	15.74
D+	24	5.55
D	43	9.95
D-	51	11.80
F	66	15.3

**No. of students attending the course (SUMMER):**      No. 35                      % 100

**Results:**

	No.	%
Passed	32	91.429
Failed	3	8.571

**Grading of successful students**

Grade	Student No.	%
B+	1	2.857
C	19	54.28
D+	1	2.85
D	5	14.28
D-	6	17.143
F	3	8.571

**C- Professional Information**

**1 – Course teaching**

	Topic	Lecture hours	Tutorial hours	Practical hours
1	▪ Types of structures. Types of loads and supports.	1	3	-
2	▪ Resultant of loads. Reactions.	1	3	-
3	▪ Simple and compound beams.	1	3	-
4	▪ Concentrated loads and moments.	1	3	-
5	▪ Equilibrium and stability in planner statically determined structures. s	1	3	-
6	▪ Trussed beams.	1	3	-
7	▪ Mid-Term Exam	1	3	-
8	▪ Simple frames, frames with link members, and closed frames.	1	3	-
9	▪ Internal forces in beams, frames, and arches. + Internal forces definition.	1	3	-
10	▪ Trusses; definition, method of joints and method of sections.	1	3	-
11	▪ Stability conditions.	1	3	-
12	▪ Uniform and triangular loads.	1	3	-
13	▪ Normal stresses	1	3	-
14	▪ Shear stresses	1	3	-
15	▪ Combined stresses	1	3	-
	<b>Total hours</b>	<b>15</b>	<b>45</b>	<b>-</b>

**Topics taught as a percentage of the content specified:**

>90 %  100 70-90 %  <70%

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures:

Practical training/ laboratory:

Seminar/Workshop:

Class activity:

Researches:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Oral examination	<input type="text" value="--%"/>
Practical/laboratory work	<input type="text" value="--%"/>
Assignments/class work	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="10 %"/>
<b>Total</b>	<b>100 %</b>

Members of examination committee

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

**5- Administrative constraints**

List any difficulties encountered

**6- Student evaluation of the course:**

List any criticisms

Response of course team

None

**7- Comments from external evaluator(s):**

Response of course team

None

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan: None

Action State whether or not completed and give reasons for any non-completion None

**9- Action plan for academic year 2014 – 2015**

Actions required	Completion date	Person responsible
None	None	None

**Course coordinator:** Dr. Tamer Seleem

**Signature:**

**Date:** august 2015

## ARC 218: Sciagraphy and Perspective

### Annual Course Report

### Academic year 2014-2015

#### A- Basic Information

1- Title and code : ARC 218: Sciagraphy and Perspective

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 2 – 4th Semester

4- Unit hours

Credit Hours: 3	Lectures:1	Tutorial: 4	Practical:-	Pre-requisite: None
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5- Names of lecturers contributing to the delivery of the course

Dr. Mona El-Basyoni

6- Course coordinator: Dr. Mona El-Basyoni

7- External evaluator: None

#### B- Statistical Information

No. of students attending the course (SPRING): No. 307 % 100

Results:

	No.	%
Passed	296	96.42
Failed	11	3.58

Grading of successful students

Grade	Student No.	%
A+	34	11.07
A	51	16.61
A-	40	13.02
B+	38	12.37
B	37	12.05
C+	33	10.74
C	28	9.12
D+	10	3.25
D	15	4.88
D-	10	3.25
F	11	3.58

### C- Professional Information

#### 1 – Course teaching

	Topic	Lecture hours	Tutorial hours	Practical hours
1	Introduction to shades and shadows, Shade of points and lines.	2	4	-
2	Shades of plains and surfaces	2	4	-
3	Shades of plains and surfaces	2	4	-
4	Shades of circles	2	4	-
5	Shades and shadows of objects and masses (prisms)	2	4	-
6	Shades and shadows of objects and masses (cone and cylinder)	2	4	-
7	Mid-Term Exam	2	4	-
8	Architectural applications	2	4	-
9	Architectural applications	2	4	-
10	One vanishing point perspective	2	4	-
11	Interior perspective	2	4	-
12	Two vanishing points perspective	2	4	-
13	Two vanishing points perspective	2	4	-
14	Applications on two vanishing points perspective	2	4	-
15	Revision	2	4	-
	<b>Total hours</b>	<b>30</b>	<b>60</b>	<b>-</b>

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic  Non

If any topics were taught which are not specified, give reasons in detail  Non

#### 2- Teaching and learning methods:

Lectures:

Practical training:

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="40%"/>
Assignments/class work	<input type="text" value="50%"/>
Mid-Term Exam	<input type="text" value="10 %"/>
<b>Total</b>	<b>100 %</b>
Members of examination committee	Dr. Mona El. Basyoni
Role of external evaluator	Non

**4- Facilities and teaching materials:**

Totally adequate	<input type="text" value="Yes."/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies:	<input type="text" value="Non."/>

**5- Administrative constraints**

List any difficulties encountered

➤ none

**6- Student evaluation of the course:                      Response of course team**

List any criticisms

Non

-

**7- Comments from external evaluator(s):                      Response of course team**

Non

**8- Course enhancement:**

Action State whether or not completed and give reasons for any non-completion      Non

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
Non	non	-

**Course coordinator:** Dr. Mona El-Basyoni

**Signature:**

**Date:** August 2015



3<sup>rd</sup> year Architecture

S	Course	
	Code	Title
1	ARC 311	Architectural Construction & Building materials 1
2	ARC 321	Architecture & Human Studies
3	ARC 322	Architectural Design 3
4	ARC 324	Design Methodology
5	ARC 314	Reinforced concrete & steel structures
6	ARC 327	Theories of Architecture (2)
7	ARC 326	History and Theories of planning
8	ARC 312	Architectural Construction & Building materials 2
9	ARC 313	Computer Applications 2
10	ARC 323	Architectural Design 4
11	ARC 328	Visual Training (2)
12	ARC 341	History of Architecture (2)
13	ARC 310	Environmental Control
14	ARC 315	Foundation
15	ARC 360	Architecture Training 1



## ARC 311 Architectural Construction & Building Materials

### *Annual Course Report*

### Academic year 2014-2015

#### A- Basic Information

**1- Title and code :** ARC 311 Architectural Construction & Building Materials

**2- Program(s) on which this course is given:**

Architecture Engineering and Building Technology

**3- Year/Level of program:** Sophomore -Level 3 -5th Semester

**4- Unit hours**

Credit Hours:3	Lectures: 2	Tutorial: 3	Practical: -	Pre-requisite: -
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**5- Names of lecturers contributing to the delivery of the course**

Dr. Magdy Tamam

**6-Course coordinator:** Dr. Magdy Tamam

**7-External evaluator:** None

#### B- Statistical Information

**No. of students attending the course (FALL) :** No. 297 % 100

**Results:**

	No.	%
<b>Passed</b>	275	92.59
<b>Failed</b>	22	7.4

**Grading of successful students**

Grade	Student No.	%
A	4	1.3
A-	10	3.3
B+	24	8.1
B	42	14.1
C+	40	13.4
C	50	16.8
D+	43	14.4
D	38	12.79
D-	24	8.1
F	22	7.4

No. of students attending the course (SPRING) : No. 46 % 100

Results:

	No.	%
Passed	45	97.8
Failed	1	2.1

Grading of successful students

Grade	Student No.	%
A	3	6.5
A-	1	2.17
B+	4	8.696
B	5	10.8
C+	8	17.39
C	9	19.5
D+	8	17.39
D	3	6.5
D-	4	8.696
F	1	2.17

## C- Professional Information

### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction & Revision ( Symbols)	2	3	
2. Waterproofing – Heat, sound and Radiation Insulations (Methods -Types- Materials).	2	3	
3. Insulation Layers and Applying methods.	2	3	
4. Expansion, Settlement and Material Joints. (Floors-Roofs-Walls...).	2	3	
5. Walls and Floors ( Interior& Exterior) (Finishing Materials, Plaster, painting).	2	3	
6. Stairs (Design–Types-Specifications and Construction).	2	3	
7. Mid-Term Exam	2	3	
8. Reinforced Concrete Stairs (Details)-Handrail – Finishing Materials	2	3	
9. Wood ( introduction–types–use in buildings)	2	3	

10. Wooden Work & Products Design and Drawing basics (Joist sizes - Joints- accessories).	2	3	
11. Wooden Doors ( Interior& Exterior) (Frames, Stock and Hardware).	2	3	
12. Wooden doors Details (Solid Molded, Slat).	2	3	
13. Wood doors Details (Paneled, Flush doors).	2	3	
14. Wood doors Details (Doors Hardware Equipment).	2	3	
15. Revision: .....Revision	2	3	
<b>Total hours</b>	<b>30</b>	<b>45</b>	

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures:

Practical training/ laborat: Site Visits

Seminar/Workshop: Weekly

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="40%"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value="20%"/>

Other assignments/researches   
 Mid-Term Exam   
 Total **100 %**

Members of examination committee: Prof. Dr. Magdy Tamam

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate   
 Adequate to some extent   
 Inadequate   
 List any inadequacies

**5- Administrative constraints**

List any difficulties encountered

**6- Student evaluation of the course:**

List any criticisms  Response of course team

**7- Comments from external evaluator(s):**  Response of course team

Review Professional and Practical skills

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
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Course coordinator: Dr. Magdy Tamam

Signature:

Date:

## ARC 321 Architecture & Human Studies

### Annual Course Report

**Academic year 2014-2015**

#### A- Basic Information

- 1- Title and code : **ARC 321 Architecture & Human Studies**
- 2- Program(s) on which this course is given: Architecture Engineering and Building Technology
- 3- Year/Level of program: Sophomore -Level 3 - 5th Semester
- 4- Unit hours

Credit Hours:2	Lectures: 2	Tutorial: -	Practical: -	Pre-requisite: -
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5-Names of lecturers contributing to the delivery of the course

Prof. Dr. Mohamed Thabat

6-Course coordinator: Dr. Mohamed Thabat

7-External evaluator: None

#### B- Statistical Information

No. of students attending the course (FALL) : No. 243 % 100

Results:

	No.	%
Passed	225	92.59
Failed	18	7.4

Grading of successful students

Grade	Student No.	%
A	12	4.9
A-	9	3.7
B+	19	7.8
B	32	13.1
C+	27	11.11
C	52	21.39
D+	28	11.5
D	21	8.6
D-	25	10.28
F	18	7.4

No. of students attending the course (SPRING) : No. 16

% 100

Results:

	No.	%
Passed	16	100
Failed	0	0

Grading of successful students

Grade	Student No.	%
A	1	6.25
A-	2	12.5
B+	1	6.25
B	4	25
C+	3	18.75
C	2	12.5
D+	2	12.5
D-	1	6.25

### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction, basic definitions and terminology	2		
2. Main topics of human studies & Architecture	2		
3. Human needs & its impact on space & Arch.	2		
4. Islamic culture in Arch.	2		
5. Arch. values in Islamic city	2		
6. Arch. As build environment The role of the environment (green & smart) Arch	2		
7. Mid Term Exam	2		
8. Shaping the culture & behavior of a Society throughout history	2		
9. Shaping the culture & behavior of a Society throughout history	2		
10. Vernaculars & traditional arch	2		
11. Relation between man & environment	2		
12. Relation between man & environment	2		
13. Natural & informal arch. Nubian / siwa / etc.			



14. Informal arch	2		
15. Community participation	2		
<b>Total hours</b>	<b>30</b>		

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

### 2- Teaching and learning methods:

Lectures:

Practical training/ laborat: Site Visits

Seminar/Workshop: Weekly

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

### 3- Student assessment:

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value=""/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="10%"/>
<b>Total</b>	<b>100 %</b>

Members of examination committee: Dr. Mohamed Thabat

Role of external evaluator

### 4- Facilities and teaching materials:

- Totally adequate  .Yes.
- Adequate to some extent  .....
- Inadequate  .....
- List any inadequacies  None

**5- Administrative constraints**

List any difficulties encountered  
 None

**6- Student evaluation of the course:**

List any criticisms  Response of course team  
 None

**7- Comments from external evaluator(s):**  Response of course team

Updateing References

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan:  
 Action State whether or not completed and give reasons for any non-completion  
 None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
1.		
2.		

**Course coordinator:** Prof. Dr. Mohamed Thabat

**Signature:**

**Date:** August 2015

## ARC 322 Architectural Design 3

### Annual Course Report

### Academic year 2014-2015

#### A- Basic Information

1- Title and code : ARC 322 Architectural Design 3

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 3 - 5th Semester

4- Unit hours

Credit Hours:3	Lectures: 1	Tutorial: 6	Practical: -	Pre-requisite: -
----------------	-------------	-------------	--------------	------------------

5- Names of lecturers contributing to the delivery of the course

Dr. Asamer Zakariaea

6- Course coordinator: Dr. Asamer Zakariaea

7- External evaluator: None

#### B- Statistical Information

No. of students attending the course (FALL) : No.  %

Results:

	No.	%
Passed	291	98.3
Failed	5	1.6

Grading of successful students

Grade	Student No.	%
A	7	2.3
A-	11	3.7
B+	23	7.77
B	48	16.2
C+	46	15.5
C	108	36.48
D	20	6.75
D-	28	9.4
F	5	1.6

e (SPRING) :

Results:

	No.	%
Passed	34	97.1
Failed	1	2.85

Grading of successful students

Grade	Student No.	%
A	1	2.8
A-	2	5.7
B	4	11.42
C+	1	2.8
C	17	48.57
D+	6	17.14
D-	2	5.7
F	1	2.85

### C- Professional Information

#### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. 1 <sup>st</sup> project : Central library	1	6	
2. Library project + site analysis	1	6	
3. Design criteria of library buildings	1	6	
4. Bubble diagram + zoning of elements	1	6	
5. Site model	1	6	
6. Masses – model - Concept development	1	6	
7. Mid-Term Exam	1	6	
8. Drawing master plan	1	6	
9. Solving design – problems in plan	1	6	
10. Final plans	1	6	
11. Drawing main sections	1	6	
12. Drawing elevations	1	6	
13. Formation development in elevations	1	6	
14. Drawing 3d perspectives or isometric	1	6	
15. Final site design Final preservation of project + jury	1	6	

Total hours	15	90	
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Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

Lectures:

Practical training/ laborat: Site Visits

Seminar/Workshop: Weekly

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Final examination	<input type="text" value="40%"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value="20%"/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="20%"/>
Total	100 %

Members of examination committee: Prof. Dr. Asamer zakareia

Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

None

**5- Administrative constraints**

List any difficulties encountered

None

**6- Student evaluation of the course:**

List any criticisms None

Response of course team

7- Comments from external evaluator(s):  
 targeted learning and outcomes

Response of course team Review the  
 The learning outcomes have been revised

Increase the hours of lecturers

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
1.		
2.		

**Course coordinator:** Dr. Asamer zakareia

**Signature:**

**Date:** August 2015

## ARC 324 Design Methodology

### Annual Course Report

Academic year 2014-2015

#### A- Basic Information

1- Title and code : ARC 324 Design Methodology

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 3 -5th Semester

4- Unit hours

Credit Hours:2	Lectures: 2	Tutorial: -	Practical: -	Pre-requisite: -
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5-Names of lecturers contributing to the delivery of the course

Dr. Moatz BeAllah

6-Course coordinator: Dr. Moatz BeAllah

7-External evaluator: None

#### B- Statistical Information

No. of students attending the course (FALL) : No.  %

Results:

	No.	%
Passed	261	99.2
Failed	2	0.7

Grading of successful students

Grade	Student No.	%
A-	11	4.1
B+	34	12.9
B	47	17.8
C+	57	21.2
C	56	21.2
D+	37	14
D	11	4.1
D-	8	3
F	2	0.7

**C- Professional Information**

**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Practical hours
1. Traditional methods of thinking	2		
2. Architectural problem & objectives	2		
3. Main Goals ,Secondary Goals	2		
4. Pyramid of Goals	2		
5. Architectural Invention process	2		
6. Phases of design process Tools of Architectural invention	2		
7. Mid Term Exam	2		
8. Methods of Architectural process Methods of Data Collection	2		
9. Architectural Design Process phases	2		
Examples of Different Building Design ,Goals , Zoning	2		
10. Different components forms ,shapes, in Architecture	2		
11. Different Architectural ,icons Ideas	2		
12. Explain Different Architectural examples ,concept ,idea	2		
13. Researches Presentation, revision	2		
14. Traditional methods of thinking	2		
<b>Total hours</b>	<b>30</b>		

Topics taught as a percentage of the content specified:

>90 %  70-90 % <70%

Reasons in detail for not teaching any topic None

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

**Lectures:**

**Practical training/ laborat:** Site Visits



Seminar/Workshop: Weekly

Class activity:

sketches Quizzes

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value=""/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="10%"/>
Total	100 %

Members of examination committee: Dr. Moatz BeAllah

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

**5- Administrative constraints**

List any difficulties encountered

None

**6- Student evaluation of the course:**

List any criticisms  Response of course team

None

**7- Comments from external evaluator(s):**

**Response of course team**

Review the targeted learning outcomes

Updated references

**8- Course enhancement:**

**Progress on actions identified in the previous year's action plan:**

**Action State whether or not completed and give reasons for any non-completion**

None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
1.		
2.		

**Course coordinator:** Prof. Dr. Moatz BeAllah

**Signature:**

**Date:** August 2015

## ARC 314 Reinforced Concrete & Steel Structures

### Annual Course Report

Academic year 2014-2015

#### A- Basic Information

1- Title and code : ARC 314 Reinforced Concrete & Steel Structures

2- Program(s) on which this course is given:  
 Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 3 -5th Semester

4- Unit hours

Credit Hours: 3	Lectures: 2	Tutorial: 3	Practical: -	Pre-requisite: -
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5-Names of lecturers contributing to the delivery of the course

Dr. Ayman Ezzat

6-Course coordinator: Dr. Ayman Ezzat

#### B- Statistical Information

No. of students attending the course (FALL) : No.  %

Results:

	No.	%
Passed	242	95.27
Failed	12	4.7

Grading of successful students

Grade	Student No.	%
A+	16	6.2
A	27	10.6
A-	39	15.35
B+	37	14.5
B	37	14.5
C+	29	11.4
C	29	11.4
D+	6	2.3
D	10	3.9
D-	12	4.7
F	12	4.7

**C- Professional Information**

**1 – Course teaching**

	Topic	Lecture hours	Tutorial hours	Practical hours
1	Introduction to reinforced concrete.	2	3	
2	Design fundamentals for concrete structures.	2	3	
3	Analysis and design of sections under bending moment	2	3	
4	Load distribution	2	3	
5	Details of beams' reinforcement	2	3	
6	Solid slabs.	2	3	
7	Mid-Term Exam	2	3	
8	Stairs- Columns.	2	3	
9	Special slabs.	2	3	
10	Design fundamentals of steel structures.	2	3	
11	Details for trusses.	2	3	
12	Details for steel frames	2	3	
13	Design of columns	2	3	
14	Design o beams	2	3	
15	Design of connections	2	3	
	<b>Total hours</b>	<b>30</b>	<b>45</b>	

Topics taught as a percentage of the content specified:

>90 %  100 70-90 %  <70%  ...

Reasons in detail for not teaching any topic  None

If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

Lectures:

Practical training/ laborat : Site Visits

Seminar/Workshop: Weekly

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value=""/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="10%"/>
Total	100 %

Members of examination committee: Prof. Dr. Ayman Ezzat

Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms

Response of course team

None

7- Comments from external evaluator(s):

Response of course team

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
1.		
2.		

Course coordinator: Prof. Dr. Ayman Ezzat

Signature:

Date: August 2015

## ARC 327 Theories of Architecture (2)

### Annual Course Report

Academic year 2014-2015

#### A- Basic Information

1- Title and code : ARC 327 Theories of Architecture (2)

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 3 - 5th Semester

4- Unit hours

Credit Hours: 2    Lectures: 2    Tutorial/Exercise:    Practical: -    Pre-requisite: -  
e:

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5-Names of lecturers contributing to the delivery of the course

Prof. Dr. Walaa Nour

6-Course coordinator: Prof. Dr. Walaa Nour

7-External evaluator: None

#### B- Statistical Information

No. of students attending the course (FALL) : No. 293 % 100

Results:

	No.	%
Passed	292	99.7
Failed	1	0.3

Grading of successful students

Grade	Student No.	%
A	5	1.7
A-	27	9.2
B+	46	15.7
B	63	21.5
C+	82	27.98
C	46	16.7
D+	17	5.8
D	6	2
D-	1	0.3
F	2	0.7

**C- Professional Information**

**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Practical hours
1. building types	2		
2. Educational building	2		
3. Educational building	2		
4. office building	2		
5. hotels	2		
6. Commercial buildings	2		
7. Mid-Term Exam	2		
8. Restaurants	2		
9. Restaurants	2		
10. Theatres	2		
11. Theatres	2		
12. Museum	2		
13. Hospitals – parking	2		
14. architectural themes	2		
15. architectural themes	2		
<b>Total hours</b>	<b>30</b>		

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic  Non

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures:



Practical training/ laborat: Site Visits

Seminar/Workshop: Weekly

Class activity:

sketches Quizzes

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value=""/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="10%"/>
Total	100 %

Members of examination committee: Prof. Dr. Walaa Nour

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate	<input type="text" value=".Yes."/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies	<input type="text" value="None"/>

**5- Administrative constraints**

List any difficulties encountered

None

**6- Student evaluation of the course:**

List any criticisms  Response of course team

None

7- Comments from external evaluator(s):

Response of course team

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
1.		
2.		

Course coordinator: Prof. Dr. Walaa Nour

Signature:

Date:

August 2015

## *ARC 326 History & Theory of Planning*

### *Annual Course Report*

**Academic year 2014-2015**

#### **A- Basic Information**

**1- Title and code : ARC 326 History & Theory of Planning**

**3- Program(s) on which this course is given:**

Architecture Engineering and Building Technology

**3- Year/Level of program:** Sophomore -Level 3 -5th Semester

**4- Unit hours**

Credit Hours:2	Lectures: 2	Tutorial: -	Practical: -	Pre-requisite: -
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**5-Names of lecturers contributing to the delivery of the course**

Prof. Dr. Nahed Omran

**6-Course coordinator:** Prof. Dr. Nahed Omran

**7-External evaluator:** None

#### **B- Statistical Information**

**No. of students attending the course (FALL) :** No. 283 % 100

**Results:**

	No.	%
<b>Passed</b>	279	98.6
<b>Failed</b>	4	1.4

**Grading of successful students**

Grade	Student No.	%
A+	28	9.8
A	22	7.77
A-	25	8.8
B+	33	11.6
B	47	16.6
C+	41	14.4
C	47	16.6
D+	17	6
D	11	3.88
D-	8	2.8
F	4	1.4

1 – Course teaching

	Topic	Lecture hours	Tutorial hours	Practical hours
1	The beginning of the city	2		
2	Mesopotamia cities.	2		
3	Ancient Egyptian civilization	2		
4	Planning of Greek cities	2		
5	Planning of roman cities.	2		
6	Analysis for the planning theories in that ear	2		
7	Mid-Term	2		
8	Cities in the middle eras	2		
9	Islamic cities	2		
10	Islamic city (case studies)	2		
11	The renaissance cities.	2		
12	Applications for the model towns	2		
13	Theories for city planning	2		
14	The Contemporary Egyptian city and its problems- environmental problems-pollution-slum areas	2		
15	Final revision – discussion for the second requirement report	2		
	<b>Total hours</b>	<b>30</b>		

Topics taught as a percentage of the content specified:

>90 %  100 70-90 %  <70%  ....

Reasons in detail for not teaching any topic None

If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

Lectures:

Practical training/ laborat : Site Visits

Seminar/Workshop: Weekly

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value=""/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="10%"/>
Total	100 %

Members of examination committee: Prof. Dr. Nahed Omran

Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

None

**6- Student evaluation of the course:**

**List any criticisms**

**Response of course team**

None

**7- Comments from external evaluator(s):      Response of course team**

Review the targeted learning outcomes      The learning outcomes have been revised

Updated References

**8- Course enhancement:**

**Progress on actions identified in the previous year's action plan:**

**Action State whether or not completed and give reasons for any non-completion**

None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
1.		
2.		

**Course coordinator:** Prof. Dr. Nahed Omran

**Signature:**

**Date:**                                      **August 2015**

## ARC 312 Architectural Construction & Building Materials 2

### Annual Course Report

Academic year 2014-2015

#### A- Basic Information

Title and code : ARC 312 Architectural Construction & Building Materials 2

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 3 - 6th Semester

4- Unit hours

Credit Hours: 3	Lectures: 2	Tutorial3	Practical: -	Pre-requisite: -
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5-Names of lecturers contributing to the delivery of the course

Dr. Magdy Tamam

6-Course coordinator: Dr. Magdy Tamam

7-External evaluator: None

#### B- Statistical Information

No. of students attending the course (SPRING) : No. 268 % 100

Results:

	No.	%
Passed	262	97.76
Failed	6	2.2

Grading of successful students

Grade	Student No.	%
A	3	1.1
A-	24	8.9
B+	26	9.7
B	41	15.29
C+	34	12.6
C	30	11.1
D+	42	15.6
D	31	11.56
D-	31	11.56
F	6	2.2

**C- Professional Information**

**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction & Revision	2	3	
2. Steel works(types-sections-materials-usage)	2	3	
3. Steel connections & welding	2	3	
4. Steel columns – frames – beams – roofing – cladding	2	3	
5. Steel stairs ( Design – types – specifications & construction ) and mechanical works	2	3	
6. Steel doors & windows ( intro – types – usage – joints – accessories – details – equipment)	2	3	
7. Mid-Term Exam	2	3	
8. Intro in working drawing projects , plans of project with check list & finishing tables	2	3	
9. Sections of projects	2	3	
10. Elevations of project with check list & finishing tabel	2	3	
11. Layout ( softscape – hardscape ) with finishes table	2	3	
12. Sanitary works & its drawing with symbols	2	3	
13. Electrical works ofits drawing with symbols	2	3	
14. Mechanical works ( elevations – sections)	2	3	
15. Revision: .....presentation	2	3	
<b>Total hours</b>	<b>30</b>	<b>45</b>	

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic  None

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures:

Practical training/ laborat : Site Visits



Seminar/Workshop: Weekly

Class activity:

sketches ,Quizzes

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="40 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value="20%"/>
Other assignments/researches	<input type="text" value="10%"/>
Mid-Term Exam	<input type="text" value="10%"/>
Total	100 %

Members of examination committee: Dr. Magdy Tamam

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate	<input type="text" value=".Yes."/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies	<input type="text" value="None"/>

**5- Administrative constraints**

List any difficulties encountered

**6- Student evaluation of the course:**

List any criticisms  Response of course team



## ARC 323 Architectural Design 4

### *Annual Course Report*

### Academic year 2014-2015

#### A- Basic Information

1- Title and code : ARC 323 Architectural Design 4

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 3 -6th Semester

4- Unit hours

Credit Hours:3	Lectures: 1	Tutorial : 6	Practical: -	Pre-requisite: -
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5- Names of lecturers contributing to the delivery of the course

Dr. Asamer Zakariaea

6- Course coordinator: Dr. Asamer Zakariaea

7- External evaluator: None

#### B- Statistical Information

No. of students attending the course (SPRING) : No.  %

Results:

	No.	%
Passed	276	97.5
Failed	7	2.4

Grading of successful students

Grade	Student No.	%
A+	1	0.3
A	10	3.5
A-	3	1.06
B+	22	7.77
B	54	19
C+	45	15.9
C	75	26.5
D+	23	8.12
D-	20	7
F	7	2.4

**C- Professional Information**

**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Practical hours
1. 1 <sup>st</sup> project: School	1	6	
2. Library project + site analysis	1	6	
3. Design criteria of library buildings	1	6	
4. Bubble diagram + zoning of elements	1	6	
5. Site model	1	6	
6. Masses – model - Concept development	1	6	
7. Mid-Term Exam	1	6	
8. Drawing master plan	1	6	
9. Solving design – problems in plan	1	6	
10. Final plans	1	6	
11. Drawing main sections	1	6	
12. Drawing elevations	1	6	
13. Formation development in elevations	1	6	
14. Drawing 3d perspectives or isometric	1	6	
15. Final site design Final preservation of project+ jury	1	6	
<b>Total hours</b>	15	90	

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic  None

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures:

Practical training/ laborat: Site Visits

Seminar/Workshop: Weekly

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="40 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value="20%"/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="20%"/>
Total	100 %

Members of examination committee: Prof. Dr. Asamer zakareia

Role of external evaluator: None

**4- Facilities and teaching materials:**

Totally adequate:

Adequate to some extent:

Inadequate:

List any inadequacies:

**5- Administrative constraints**

List any difficulties encountered

None

**6- Student evaluation of the course:**

**List any criticisms**

**Response of course team**

None

**7- Comments from external evaluator(s):**

**Response of course team**

Review the targeted learning and outcomes The learning outcomes have been revised

Increase the hours of lecturers and the number of assistants

**8- Course enhancement:**

**Progress on actions identified in the previous year's action plan:**

**Action State whether or not completed and give reasons for any non-completion**

None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
1.		
2.		

**Course coordinator:** . Dr. Asamer zakareia

**Signature:**

**Date:**

**August 2015**

## ARC 328 Visual Training(2)

### Annual Course Report

Academic year 2014-2015

#### A- Basic Information

- 1- Title and code : ARC 328 Visual Training(2)
- 2- Program(s) on which this course is given:  
Architecture Engineering and Building Technology
- 3- Year/Level of program: Sophomore -Level 3 -6th Semester
- 4- Unit hours

Credit Hours: 2	Lectures: 1	Tutorial: 3	Practical: -	Pre-requisite: -
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5-Names of lecturers contributing to the delivery of the course

Dr. Amira Mostafa

6-Course coordinator: Dr. Amira Mostafa

7-External evaluator:None

#### B- Statistical Information

No. of students attending the course (SPRING) : No.  %

Results:

	No.	%
Passed	273	96.127
Failed	11	3.87

Grading of successful students

Grade	Student No.	%
A+	2	0.7
A	23	8.1
A-	33	11.6
B+	37	13
B	44	15.49
C+	36	12.67
C	36	12.67
D+	35	12.3
D	17	5.98
D-	10	3.5
F	11	3.87

### C- Professional Information

#### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction of color as phenomena, color symbol, properties, and psychology of color effect	1	3	
2. Painting circle of (3)basic color (6 -12)	1	3	
3. color theory of Ostwald and coloring techniques	1	3	
4. color notation ( munsell theory ) and coloring techniques	1	3	
5. Color value and Grey scale	1	3	
6. Intensity of color ( chrome )	1	3	
7. Mid-Term Exam	1	3	
8. Cool & warm colors	1	3	
9. Research presentation & Discussion	1	3	
10. Combining & contrasting colors	1	3	
11. Harmony & disharmony of colors	1	3	
12. Introduction water colors naturally	1	3	
13. Drawing architecturalwater colors project and manual presentation	1	3	
14. water colors in presenting layout and plans	1	3	
15. water colors in presenting elevations	1	3	
<b>Total hours</b>	<b>15</b>	<b>45</b>	

Topics taught as a percentage of the content specified:

>90 %  70-90 % <70%

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail

#### 2- Teaching and learning methods:

Lectures:

Practical training/ laborat : Site Visits



Seminar/Workshop: Weekly

Class activity:

sketches Quizzes

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

**3- Student assessment:**

Method of assessment	Percentage of total
Final examination	<input type="text" value="40 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value="20%"/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="20%"/>
Total	100 %

Members of examination committee: Dr. Amira Mostafa

Role of external evaluator

**4- Facilities and teaching materials:**

Totally adequate	<input type="text" value=".Yes."/>
Adequate to some extent	<input type="text" value="....."/>
Inadequate	<input type="text" value="....."/>
List any inadequacies	<input type="text" value="None"/>

**5- Administrative constraints**

List any difficulties encountered

**6- Student evaluation of the course:**

List any criticisms  Response of course team

7- Comments from external evaluator(s):      Response of course team

Updated the references

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2014– 2015

Actions required	Completion date	Person responsible
1.		
2.		

Course coordinator: Dr. Amira Mostafa

Signature:

Date:                                      August 2015

## **ARC 341 History of Architecture (2)**

### **Annual Course Report**

**Academic year 2014-2015**

#### **A- Basic Information**

**1- Title and code : ARC 341 History of Architecture (2)**

**2- Program(s) on which this course is given:**

Architecture Engineering and Building Technology

**3- Year/Level of program:** Sophomore -Level 3 -6th Semester

**4- Unit hours**

Credit Hours:2	Lectures: 2	Tutorial:-	Practical: -	Pre-requisite: -
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**5-Names of lecturers contributing to the delivery of the course**

Prof. Dr. Reham Momtaz

**6-Course coordinator:** Prof. Dr. Reham Momtaz

#### **B- Statistical Information**

**No. of students attending the course (SPRING) :**      No. 296 % 100

**Results:**

	No.	%
<b>Passed</b>	287	96.95
<b>Failed</b>	9	3.4

**Grading of successful students**

Grade	Student No.	%
A+	2	0.67
A	9	3.04
A-	33	11.14
B+	35	11.8
B	41	13.85
C+	31	10.47
C	30	10.13
D+	36	12.16
D	27	9.1
D-	43	14.5
F	9	3.4

**C- Professional Information**

**1 – Course teaching**

Topic	Lecture hours	Tutorial hours	Practical hours
1. General introduction for the course	2		
2. Christian age	2		
3. Christian age	2		
4. Coptic architecture	2		
5. Byzantine architecture	2		
6. Byzantine architecture	2		
7. Mid-Term Exam	2		
8. Romanesque architecture	2		
9. Gothic style in France	2		
10. Gothic style in Italy	2		
11. Gothic style in Europe	2		
12. Digital Presentation of the Final Researches:	2		
13. (Jury) : <i>Staff's Criticism / Evaluation for each Student</i>			
14. Digital Presentation of the Final Researches:	2		
15. (Jury) : <i>Staff's Criticism / Evaluation for each Student</i>			
<b>Total hours</b>	<b>30</b>		

Topics taught as a percentage of the content specified:

>90 %  70-90 % <70%

Reasons in detail for not teaching any topic Non

If any topics were taught which are not specified, give reasons in detail

**2- Teaching and learning methods:**

Lectures:

Practical training/ laborat : Site Visits

Seminar/Workshop: Weekly

Class activity:

sketches Quizzes

Case Study:

None

Other assignments/homework:

weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:

None

3- Student assessment:

Method of assessment	Percentage of total
Final examination	70 %
Practical/laboratory work	
Other assignments/class work	
Other assignments/researches	20%
Mid-Term Exam	10%
Total	100 %

Members of examination committee: Prof. Dr. Reham Momtaz

Role of external evaluator

Non

4- Facilities and teaching materials:

Totally adequate

.Yes.

Adequate to some extent

.....

Inadequate

.....

List any inadequacies

None

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms

Response of course team

None



## ARC 310 Environment Control

### Annual Course Report

### Academic year 2014-2015

#### A- Basic Information

1- Title and code : ARC 310 Environment Control

2- Program(s) on which this course is given:  
 Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 3 -5th Semester

4- Unit hours

Credit Hours: 2	Lectures: 2	Tutorial: -	Practical: -	Pre-requisite: -
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5-Names of lecturers contributing to the delivery of the course

Dr. Reham Mostafa

6-Course coordinator: Dr. Reham Mostafa

7-External evaluator: None

#### B- Statistical Information

No. of students attending the course (SPRING) : No.  %

Results:

	No.	%
Passed	241	99.17
Failed	2	0.82

Grading of successful students

Grade	Student No.	%
A	7	2.88
A-	12	4.9
B+	21	8.6
B	38	15.6
C+	45	18.5
C	46	18.9
D+	36	14.8
D	25	10.28
D-	11	4.5
F	2	0.82

### C- Professional Information

#### 1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction –Environment and its physical aspects – climatic regions and levels of studing	2		
2. Climatic Elements affecting design process	2		
3. Solar Radiation and its properties	2		
4. Design of sun breakers	2		
5. Heat and thermal behavior of the building	2		
6. wind and air movement	2		
7. Mid-Term Exam	2		
8. basics of natural ventilation Heat performance of the building	2		
9. Elements of human comfort	2		
10. Components of day lighting Day lighting design tools	2		
11. Research presentation & Discussion	2		
12. Introduction –Environment and its physical aspects – climatic regions and levels of studing	2		
13. Climatic Elements affecting design process	2		
14. Solar Radiation and its properties	2		
15. Design of sun breakers Heat and thermal behavior of the building	2		
<b>Total hours</b>	<b>30</b>		

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic  None

If any topics were taught which are not specified, give reasons in detail

#### 2- Teaching and learning methods:

Lectures:

Practical training/ laborat Site Visits

Seminar/Workshop: Weekly



Class activity:

sketches Quizzes

Case Study:

None

Other assignments/homework:

weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Method of assessment	Percentage of total
Final examination	70 %
Practical/laboratory work	
Other assignments/class work	
Other assignments/researches	20%
Mid-Term Exam	10%
Total	100 %

Members of examination committee: Dr. Reham Mostafa

Role of external evaluator

None

4- Facilities and teaching materials:

Totally adequate

.Yes.

Adequate to some extent

.....

Inadequate

.....

List any inadequacies

None

5- Administrative constraints

List any difficulties encountered

None

6- Student evaluation of the course:

List any criticisms

Response of course team

None

7- Comments from external evaluator(s):

Response of course team

Review professional and practical skills

All skills had been updated and updated references

**8- Course enhancement:**

**Progress on actions identified in the previous year's action plan:**

**Action State whether or not completed and give reasons for any non-completion**

None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
1.		
2.		

**Course coordinator:** Dr. Reham Mostafa

**Signature:**

**Date:** August 2015

**ARC 315 Foundations**  
**Annual Course Report**  
**Academic year 2014-2015**

**A- Basic Information**

1- Title and code : ARC 315 Foundations

2- Program(s) on which this course is given:

Architecture Engineering and Building Technology

3- Year/Level of program: Sophomore -Level 3 -5th Semester

4- Unit hours

Credit Hours: 2	Lectures: 2	Tutorial:-	Practical: -	Pre-requisite: -
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5-Names of lecturers contributing to the delivery of the course

Prof. Dr. Adham Elalfy

6-Course coordinator: Prof. Dr. Adham Elalfy

**B- Statistical Information**

No. of students attending the course (SPRING) : No.  %

Results:

	No.	%
Passed	228	99.56
Failed	1	0.43

Grading of successful students

Grade	Student No.	%
A+	22	9.6
A	37	15.7
A-	47	20.5
B+	33	14.4
B	38	16.59
C+	28	12.2
C	11	4.8
D+	8	3.4
D	3	1.3
D-	2	0.8
F	1	0.43

**C- Professional Information**

**1 – Course teaching**

	Topic	Lecture hours	Tutorial hours	Practical hours
1	• Introduction to Soil Mechanics	2		
2	• Soil Exploration	2		
3	• Soil classification	2		
4	• Physical properties of soil	2		
5	• Mechanical properties	2		
6	• Active soil pressure	2		
7	• Mid-Term Exam	2		
8	• Bearing Capacity of the types of soil Compaction of soil	2		
9	• Foundation introduction	2		
10	• Design of isolated square footing	2		
11	• Design of isolated rectangular footing	2		
12	• Design of combined footing	2		
13	• Design of raft foundation	2		
14	• Deep foundation	2		
15	• Deep foundation	2		
	<b>Total hours</b>	<b>30</b>		

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic  None

If any topics were taught which are not specified, give reasons in detail

2- Teaching and learning methods:

Lectures:

Practical training/ laborat

Seminar/Workshop:

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Final examination	<input type="text" value="70 %"/>
Practical/laboratory work	<input type="text" value=""/>
Other assignments/class work	<input type="text" value=""/>
Other assignments/researches	<input type="text" value="20%"/>
Mid-Term Exam	<input type="text" value="10%"/>
Total	100 %

Members of examination committee: Prof. Dr. Adham Elalfy

Role of external evaluator: None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

5- Administrative constraints

List any difficulties encountered

None

**6- Student evaluation of the course:**

List any criticisms

Response of course team

None

**7- Comments from external evaluator(s):**

Response of course team

None

**8- Course enhancement:**

Progress on actions identified in the previous year's action plan:

Action State whether or not completed and give reasons for any non-completion

None

**9- Action plan for academic year 2014– 2015**

Actions required	Completion date	Person responsible
1.		
2.		

**Course coordinator:** Prof. Dr. Adham Elalfy

**Signature:**

**Date:**

**August 2015**

## ARC360 Architecture Training (1)

### *Annual Course Report*

### Academic Year 2014-2015

#### A- Basic Information

1- Title and code: ARC360 Architecture Training (1)

2- Program(s) on which this course is given: Architecture Engineering and building Technology

3- Year/Level of program: Sophomore -Level 3 - Summer

4- Unit hours

Credit Hours: 3    Lectures: -    Tutorial/Exercise:    Practical: 6    Pre-requisite: 323

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5- Names of lecturers contributing to the delivery of the course

Dr. Amr Almoatasem

Course coordinator Dr. Amr Almoatasem

External evaluator:

#### B- Statistical Information

No. of students attending the course (SUMMER) :    No.  %

Results:

	No.	%
Passed	321	100
Failed	0	0

Grading of successful students

Grade	Student No.	%
A+	108	33.6
A	82	2.55
A-	82	2.55
B+	42	13.1
B	4	1.2
B-	3	0.93

**C- Professional Information**

**1 – Course teaching**

	Topic	Lecture hours	Tutorial hours	Practical hours
1	Computer Skills (CAD –REVIT -3D MAX .....	-	-	6
3	Project management	-	-	6
4	Site Visit	-	-	6
	<b>Total hours</b>	-	-	<b>18</b>

Topics taught as a percentage of the content specified:

>90 %  70-90 %  <70%

Reasons in detail for not teaching any topic

None

If any topics were taught which are not specified, give reasons in detail

None

**2- Teaching and learning methods:**

Lectures:

Practical training/ laboratory:

Seminar/Workshop:

Class activity:



Researches:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons: None

**3- Student assessment:**

Method of assessment	Percentage of total
Final Report	20%
Practical/laboratory work	<input type="checkbox"/>
Other assignments/ researches	60%
Oral Test	20%
Total	100 %

Members of examination committee: Dr. Amr Almoatasem

Role of external evaluator : Non

None

**4- Facilities and teaching materials:**

Totally adequate

Adequate to some extent

Inadequate

List any inadequacies

None

**5- Administrative constraints**

List any difficulties encountered

None

**6- Student evaluation of the course:**

**Response of course team**

List any criticisms

Non

**7- Comments from external evaluator(s):**

Non

**8- Course enhancement:**

**Progress on actions identified in the previous year's action plan:**

**Action State whether or not completed and give reasons for any non-completion**

None

**9- Action plan for academic year 2014 – 2015**

Actions required

Completion date

Person responsible

**Course coordinator:** Dr. Amr Almoatasem

**Signature:**

Date: August 2015

