**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architecture Engineering Department  (AED) | ***2. University Department/Centre*** |
| **Architectural Design - Code No. ARC 101 First Year**  Identify the basic fundamentals of the two dimensional design: the concept, elements, basic fundamentals of composition and kinds of compositions, using the production technology by using collage to facilitate the idea. | ***3. Course title/code & Description*** |
| Architecture Engineering | ***4. Programme(s) to which it Contributes*** |
| Annual System ; There is only one  mode of delivery, which is a “Day  Program”. The students are full time  students, and on campus. They attend  full day program in face-to-face  mode. The academic year is  composed of 30-week regular  subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016– 2017 | ***6. Semester/Year*** |
| 300 hrs. / 10 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| **The aim**  The aim is to prepare the student to enter the world of architecture intellectually, conceptually and practically as a basic working rule. Moreover, the subject aims at identifying the student with the concept of architecture by identifying the basic principles of design, composition, three dimensions, the human scale, the surroundings of the urban environment, etc., and developing the student's expressive language of those items. The subject, also, concentrates on developing the student's artistic and creative sense, the style of analytic and synthetic thinking, in addition to developing his awareness and sensation of the natural and built environment and to respect this environment starting from realizing and appreciating the classical urban environment and studying the presentational, plastic and compositional relationships of its elements and components. | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to design by use the basic fundamentals of the two dimensional design: the concept, elements, basic fundamentals of composition and kinds of compositions, using the production technology by using collage to facilitate the idea. |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application.  7. Extracurricular Activities.  8. Seminars.  9. In- and Out-Class oral conservations.  10. Reports, Presentations, and Posters. |
| ***12. Assessment Methods***  1. Examinations, Tests.  2. Extracurricular Activities.  3. Student Engagement during Lectures.  4. Responses Obtained from Students, Questionnaire about  Curriculum and Faculty Member ( Instructor ). |
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**The first term**

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| **Week** | **Subject** | **Specification** | **Practical exercises** |
| 1st week | Quality of line | Training the student through a collection of practices on the different qualities of line by using a pencil. Developing the student's expressionistic ability of drawing by using the tools or by freehand to reach different line qualities. | Exercises in pencil by without themc hanging the density of lines, the degree of blackness of the pencils, the shapes of lines and their direction, etc. |
| 2nd week |
| 2nd week | Principles of Composition | Identifying the basic fundamentals of the two dimensional design: the concept, elements, basic fundamentals of composition and kinds of compositions. | Applied exercises. Using the production technology by using collage to facilitate the idea. |
| 3rd week |
| 4th week | A visit to Baghdad historical path | Al-Qaser Al-Abbasi , Alqushla and Alsarai, Almustansiriya School, and Alwali House | Detailed and scaled drawing of a selected part of one of the visited buildings |
| A lecture about the method of drawing and measuring the elevations of historical buildings and applying them locally |
| 5th week | Color in composition | Theory of color in and its basic principles - Using Poster colors | Exercises of color circle and deriving colors and their tones |
| 6th week | Color in composition: : introducing color as a new variable in composition | Designing composition with introducing color themes on it. |
| 7th week | Abstraction and composition | Short project through which the concepts discussed are applied | A real project in which the student abstracts it to its basic elements and then building a new composition by reassembling these elements. |
| 8th week |
| 9th week | 3 D composition | Introducing volume to as a new variable in composition, space, mass and their expressive values | The previous composition is transformed to third dimension and studying the compositional relationship realized in the third dimension. |
| 10th week |  | Day Sketch…… Exam | |
|  | A visit to the traditional houses of one of the classical sites in Baghdad | A measured drawing of one part of classical elevations. |
| 11th week | Final presentation of the exercise | | |
| 12th week | The human scale  This periods includes exam No. 2  (Day Sketch) | It represents the joints between the abstract state and the other values in architecture. Acquaintance with the concept in its applications and distinguishing between scale in the residential building and the public building. The application through the actual study to one of the interior residential spaces, developing the space together with focusing on the study of the space, functional, expressive requirements of space, introducing color and texture and studying furniture , etc. | Scaling and studying the state study about the selected space and its standard dimensions. |
| 13th week | Developing the space |
| 14th week | Introducing the color and texture to the space |
| 15th week | Pre-final presentation |

**The second term**

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| **Week** | **Subject title** | **Description** | **Practical exercises** |
| Lesson 1 | The final presentation of the interior space exercise | | Interior model, land plan, sections drawn once by pencil and others by collage in real colors |
| Lesson 2 | Examination No. (3) Day sketch | |
| 2nd week | A scientific trip to one of the historical locations outside Baghdad city | | Scaled drawings to one of the important landmarks visited previously |
| 3rd week | **Architecture within its urban context**  A study of the relationship between design and the adjacent external surrounding  **The final Project**  Designing a small building of a specific function (mostly traditional)  The activities are simple. They represent the gathering of definite number of spaces of various functions. Emphasizing the study of the site and the exterior spaces | After studying the basic principles of design, it is emphasized here on the necessity of the interaction of the project with its adjacent environment through a series of lectures and field visits to various urban fabrics and to be applied later in the final project which represents summary of all what the student has been exposed to in the first stage.  **Stage of the project:**   * Studying the location and the various environmental effects and different contexts. * Studying the activity thoroughly from the functional aspects and the expressive and symbolic requirements * Studying the architectural form * The architectural concept how to crystallize it * Formulation and developing the design concept * Concentrating on the building materials and the constructional system | Studying the location and its limitations, a study about the classical areas. |
| 4th week | Studying the traditional Baghdadi House and its relation with the surroundings, the spatial organization, the functional relations…  A functional study of the selected project |
| 5th week | Continuing the various studies  Final submission of studies and discussion |
| 6th week | Analyzing the location and the functional requirements and getting ready to put the preliminary concept |
| 7th week | The preliminary concept |
| 8th week | Developing the preliminary concept – studying the mass configuration |
| 9th week | 1st preliminary presentation  The requirements: Mass modelGround floor plan  Section Mass elevation |
| 10th week | Examination... Day Sketch | | |
| 11th week | 2nd preliminary presentation / individual criticism and developing the concept | | |
| 12th week | Developing the design concept | | |
| 13th week | Pre-final presentation | | |
| 14th week | Final presentation | | |

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| ***15. Infrastructure*** | | |
| * Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004 * Steven P. Juroszek , Design Drawing, 2005 | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * Many local and international projects, and many examples | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| * Field and scientific visits.   Extra lectures by foreign guest lecturers | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **Code No. ARC 101** | | Pre-requisites |
| - | | Minimum number of students |
| 70 | | Maximum number of students |
| ***Instructor:***  **Dr. Osamah Abdul-Moneem Al-timimy**  Instructor of Architecture Engineering /  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964 7901156721  Email:  [eng\_usama\_oat@yahoo.com](mailto:eng_usama_oat@yahoo.com)  **Anas Hameed Majeed**  A.L of Architecture Engineering /  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964 7902216850  Email:  [anas\_arch2005@yahoo.com](mailto:anas_arch2005@yahoo.com)  **Huda Sabah Fakhrulddin**  A.L of Architectural Engineering /  Arch. Engr. Dept.  College of Engineering  University of Baghdad | | ***17. Course Instructors*** |

**TEMPLATE FOR COURSE SPECIFICATION**

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**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department  (AED) | ***2. University Department/Centre*** |
| **Architectural Graphics - Code No. ARC 102 First Year**  This subject aims at building and developing the student's expressionistic skills. Moreover, it aims at training the student to use different materials and technologies in the presentation of section and elevation plans. In the second half of the second term, the basic principles of the three dimensional drawings are identified especially the axonometric and isometric fundamentals with presentation techniques by using the pencil, collage, color pencils, and on the principles of presentation by using the poster and water colors (Architectural model making).. | ***3. Course title/code & Description*** |
| Architectural Engineering | ***4. Programme(s) to which it Contributes*** |
| Annual System ; There is only one  mode of delivery, which is a “Day  Program”. The students are full time  students, and on campus. They attend  full day program in face-to-face  mode. The academic year is  composed of 30-week regular  subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 90 hrs. / 3 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| **The aim**  Architectural graphics is considered one of the most important means of expressing the architect's designing thoughts. So, this subject aims at building and developing the student's expressionistic skills. Moreover, it aims at training the student to use different materials and technologies in the presentation. The subject concentrates on the gradual building of the student's skills through the clear sequence of practices starting from the special practices of line quality to the two dimensional drawings which are represented by section and elevation plans.  In the second half of the second term, the basic principles of the three dimensional drawings are identified especially the axonometric and isometric fundamentals. As for the presentation, concentration is made, in the first stage, on the presentation techniques by using the pencil, collage, color pencils, and on the principles of presentation by using the poster and water colors in addition to developing the architectural model making skills.  (Architectural model making) | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to design and work by use the basic fundamentals of the two dimensional design: the concept, elements, basic fundamentals of composition and kinds of compositions, using the production technology by using collage to facilitate the idea.  During the summer holiday, the student is subjected to training on the application of the architectural graphic concepts through practicing the drawing of distinguished architectural elements and items, especially the traditional ones which accompany the documentation process, which the student does, of the elevations of the buildings in the subject of architectural design. Thus, concentration is made on the issue of interference and consolidation between the subjects of architectural design and architectural graphics. |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application.  7. Extracurricular Activities.  8. Seminars.  9. In- and Out-Class oral conservations.  10. Reports, Presentations, and Posters. |
| ***12. Assessment Methods***  1. Examinations, Tests.  2. Extracurricular Activities.  3. Student Engagement during Lectures.  4. Responses Obtained from Students, Questionnaire about  Curriculum and Faculty Member ( Instructor ). |
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**The first term**

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| **Week** | **Subject** |
| 1st week | Quality of line- compositions by lines |
| 2nd week | compositions by lines –continued / presentation by using collage |
| 3rd week | compositions by lines- introducing water, trees, pavement, etc., in the architectural drawings |
| 4th week | A field visit to historical buildings- measuring the elevations and copying them on the drawing board – presentation by pencil |
| 5th week | Color principles, color circle, color line |
| 6th week | Tint and shade / complementary colors |
| 7th week | Composition in color |
| 8th week | Abstraction and composition |
| 9th week | Architectural model making |
| 10th week | Drawing top views and elevations |
| 11th week | Drawing sections |
| 12th week | Drawing plans and floor plans |
| 13th week | Plans and sections by pencil and collage |
| 14th week | Concentrating on the techniques of architectural model making |
| 15th week | Concentrating on the drawing of different plans and on the model of the designing project under establishment |

**The second term**

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| **Week** | **Subject** |
| 1st week | The technique of drawing by using the pen – varied exercises |
| 2nd week | drawing by using the pen – continued |
| 3rd week | Day sketch |
| 4th week | Visits to traditional areas – site drawings of the real state which are to be transformed to measured drawings of elevations' parts or elements / presentation by using the pen |
| 5th week | Drawing sketches and different plans by using the pen technique |
| 6th week | Drawing plan by ink –continued |
| 7th week | Three dimensional drawings / a lecture and practices about axonometric and isometric |
| 8th week | A simple composition in isometric / the cube, parallelograms, domes, arches |
| 9th week | Exterior isometric |
| 10th week | Exam – exterior isometric of the final project with full presentation |
| 11th week | Shade and shadow in sections |
| 12th week | Shade and shadow in elevations |
| 13th week | Exam about shade and shadow |
| 14th week | Other techniques in presentation |
| 15th week | Different plans by the color pencil technique |

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| ***15. Infrastructure*** | | |
| * Francis D. K. Ching, Steven P. Juroszek, Architecture: Form, Space, and Order, 2004 * Steven P. Juroszek , Design Drawing, 2005 | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * Many local and international projects, and many examples | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| * Field and scientific visits.   Extra lectures by foreign guest lecturers | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **Code No.**  **ARC 102** | | Pre-requisites |
| - | | Minimum number of students |
| 70 | | Maximum number of students |
| ***Instructor:***  **Dr. Osamah Abdul-Moneem Al-timimy**  Instructor of Architectural Engineering /  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964 7901156721  Email:  [eng\_usama\_oat@yahoo.com](mailto:eng_usama_oat@yahoo.com)  **Anas Hameed Majeed**  A.L of Architecture Engineering /  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964 7902216850  Email:  [anas\_arch2005@yahoo.com](mailto:anas@yahoo.com)  **Huda Sabah Fakhrulddin**  A.L of Architecture Engineering /  Arch. Engr. Dept.  College of Engineering  University of Baghdad | | ***17. Course Instructors*** |

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**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| **College of Engineering**  **University of Baghdad** | ***1. Teaching Institution*** |
| **Architectural Engineering Department**  **(AED)** | ***2. University Department/Centre*** |
| **Freehand Drawing / Code No. Arc 103**  **First Year**  The student is identified with the most important techniques used in the fundamentals of freehand drawing and the in the design process such as pencils, pens and color pencils. | ***3. Course title/code & Description*** |
| **Freehand Drawing** | ***4. Programme(s) to which it Contributes*** |
| Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face  mode. The academic year is composed of 30-week regular subjects. | ***5. Modes of Attendance offered*** |
| First and second / Year 2016 – 2017 | ***6. Semester/Year*** |
| 4 hrs. per week / 120 hours yearly | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The subject aims to identify the student with the :   1. The materials of freehand drawing and their types as: pencils, inking pens and color pencils. 2. Planning and drawing cubes with outside multidirectional lines. 3. Principles of the perspective of the geometrical shapes. 4. Shading by (pencils, inking pens and color pencils) by depending on maneuvering of light. 5. Drawing a still life perspective three forms or more with a compositional background. 6. The technologies used in materials (glass, wood, metal) still life drawing of various materials. 7. The techniques used in drawing plants, flowers, fruits and trees. | |

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| ***10·*** ***Learning Outcomes*** |
| * + 1. Developing the student's ability in the basics of selecting the suitable composition and color and to feel this ability.     2. Training the student's eye to recognize the tiny details in the tangible real world and to recognize the percentages, movements, shade and shadow, light and color.     3. Enabling the student to comprehend the items that he will use in the other subjects like design and architectural graphics.     4. The student, who has passed to the second stage, submits no more than 10 artistic works during the summer holiday which represent:        1. A documentation of some monuments in Baghdad and the governorates.        2. Copied drawings of some Iraqi and international buildings. |
| ***11.*** ***Teaching and Learning Methods*** |
| * In class Drawing a still life * In-Class Questions, Discussions and sketches. * Lectures using data show about art and famous artists. * Homework. * Reports and Presentations. * Out-Class Drawing the surrounding buildings and landscape. * Trips to the artistic exhibitions. * Tests and Exams. |
| ***12. Assessment Methods***  *-* Quick sketches.  - Drawing.  - Tests.  - Final Exam. |
| ***13. Grading Policy***  1. Tests:  - There will be a (10) closed books and notes quizzes during the year, The quizzes will count (20%) of the total grade.  2. Drawing in class:  There will be a (20) projects during the year, there will count (25%) of the total grade.  3. homework:  There will be a (20) projects during the year, there will count (20%) of the total grade.  4. The task of the spring holiday:  The task is the transcription of international or Arab or local painting or drawing the facade of famous building by water colors, The task will count (5%) of the total course grade  5. Final Exam:  - The final exam will be comprehensive, closed books and  Notes, The final exam will count (30%) of the total course grade . |

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| ***14. Course Structure*** | | | | | |
|  | **Teaching**  **Method** | **Unit/Module or**  **Topic Title** |  | Hours | Week |
|  | Drawing a still life and homework | Identifying the materials of freehand drawing and their types by pencils |  | 4 | 1 |
|  | Drawing a still life and homework | Practices of hand on how to use the circle and zigzag lines |  | 4 | 2 |
|  | Drawing a still life and homework | The stage of planning by graphite and training the student to draw cubes |  | 4 | 3 |
|  | Drawing a still life and homework | Principles of the perspective of geometrical shapes |  | 4 | 4 |
|  | Drawing a still life and homework | Shading by pencils (graphic) by depending on maneuvering of light. |  | 4 | 5 |
|  | Drawing a still life and homework | Approximating and abstracting the free forms |  | 4 | 6 |
|  | Drawing a still life and homework | Drawing a still life perspective three forms or more with a compositional background |  | 4 | 7 |
|  | Drawing a still life and homework | Examination of the previous stage. |  | 4 | 8 |
|  | Drawing a still life and homework | A lesson about the technologies used in materials |  | 4 | 9 |
|  | Drawing a still life and homework | Studying the perspective with simple exercise about three dimensional shapes |  | 4 | 10 |
|  | Drawing a still life and homework | Drawing fruits and flowers from nature |  | 4 | 11 |
|  | Drawing the surrounding landscape and homework | Drawing trees from nature |  | 4 | 12 |
|  | Drawing a still life and homework | Examination of the previous stage |  | 4 | 13 |
|  | Drawing a still life and homework | The stage of the ink pen, studying the drawing techniques by ink pens |  | 4 | 14 |
|  | Drawing a still life and homework | How to shade intersecting lines, scattered, dotting, together with drawing many tree leaves differing in shape, size. |  | 4 | 15 |
|  | Drawing a still life and homework | Principles of the perspective of geometrical shapes by ink pens |  | 4 | 16 |
|  | Drawing a still life and homework | Drawing a still life perspective three forms or more with a compositional background |  | 4 | 17 |
|  | Drawing a still life and homework | A lesson about the technologies used in materials |  | 4 | 18 |
|  | Drawing the surrounding landscape and homework | Sketching of several kinds of trees (3 kinds) |  | 4 | 19 |
|  | Drawing a still life and homework | Drawing fruits and flowers from nature |  | 4 | 20 |
|  | Drawing a still life and homework | Examination of the previous stage |  | 4 | 21 |
|  | Comparing colors and homework | The stage of drawing by colored pencils, life geometric drawing |  | 4 | 22 |
|  | Comparing colors with a number of its possible tones and homework | Producing color tones which is the color circle |  | 4 | 23 |
|  | Drawing a still life and homework | Principles of the perspective of geometrical shapes by colored pencils |  | 4 | 24 |
|  | Drawing a still life and homework | Drawing a still life perspective three forms or more with a compositional background |  | 4 | 25 |
|  | Drawing a still life and homework | A lesson about the technologies used in materials |  | 4 | 26 |
|  | Drawing the surrounding landscape and homework | Drawing trees from nature |  | 4 | 27 |
|  | Drawing a still life and homework | Drawing fruits and flowers |  | 4 | 28 |
|  | Drawing a still life and homework | Examination of the previous stage |  | 4 | 29 |
|  | Drawing a still life | Final Examination |  | 4 | 30 |

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| ***15. Infrastructure*** | | |
|  | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| Available websites related to the subject: art, artistic movements, and famous artistes. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| -Theoretical lectures accompanied by a slide show of artists and their works, in addition to students' visits to the artistic exhibitions of those artists in Iraq. | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **Code No. Arc 103** | | Pre-requisites |
| **/** | | Minimum number of students |
| 70 | | Maximum number of students |
| ***Instructor:***    **Assist Prof. Dr. Elham Ali**  ArchitectureEngineering Department  College of Engineering  University of Baghdad  E- mail : [dr.elhamali77@yahoo.com](mailto:dr.elhamali77@yahoo.com)  ***Teaching Assistant:***    **Lecturer Amar Salim Dawood**  ArchitectureEngineering Department  College of Engineering  University of Baghdad  E- mail : [ammarsalem1@yahoo.com](mailto:ammarsalem1@yahoo.com)  **Lecturer Huda Sabah Fakhrulddin**  ArchitecturalEngineering Department  College of Engineering  University of Baghdad  E- mail : h\_dream\_7 @yahoo.com  **Assist lecturer Ali Basem**  ArchitectureEngineering Department  College of Engineering  University of Baghdad  E- mail : [alfuraty\_ali@yahoo.com](mailto:alfuraty_ali@yahoo.com)  **Assist lecturer Anas Hameed**  ArchitecturalEngineering Department  College of Engineering  University of Baghdad  E- mail : anas\_arch2005@yahoo.com | | ***17. Course Instructors*** |

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**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programmed specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department  (AED) | ***2. University Department/Centre*** |
| **Building Construction I-Code No. ARC105 First Year**  The subject aims at identifying the First year students in the Department of Architectural Engineering with the different building materials on the local building materials and the related building works (bonding and setting up these materials together).. | ***3. Course title/code & Description*** |
| Architectural Engineering | ***4. Programme (s) to which it Contributes*** |
| Annual System ; There is only one  mode of delivery, which is a “Day  Program”. The students are full time  Students, and on campus. They attend  full day program in face-to-face  Mode. The academic year is  composed of 30-week regular  Subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 60 hrs. / 2 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| **The aim**  The subject aims at identifying the First year students in the Department of Architectural Engineering with the different building materials used locally and internationally together with concentrating on the local building materials and the related building works (bonding and setting up these materials together). The curriculum is sequenced through | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to:   * Make the students able to choose right materials in their designs through identifying the different building materials on the local building materials and the related building works. * Use the techniques, skills, and modern engineering tools necessary for engineering practice in building materials. * Understand and apply the principles of dimensional analysis and similitude to building materials. |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application.  7. Extracurricular Activities.  8. Seminars.  9. In- and Out-Class oral conservations.  10. Reports, Presentations, and Posters. |
| ***12. Assessment Methods***  1. Examinations, Tests, and Quizzes.  2. Extracurricular Activities.  3. Student Engagement during Lectures.  4. Responses Obtained from Students, Questionnaire about  Curriculum and Faculty Member (Instructor ). |
| ***13. Grading Policy***  1. Quizzes:  - There will be a ( 10) closed books and notes quizzes  During the academic year.  - The quizzes will count 5% of the total grade.  2. Tests, 2-3 Nos. and will count 20% of the total course grade.  3. Extracurricular Activities, this is optional and will count extra  Marks ( 1 – 5 % ) for the student, depending on the type of activity.  4. Final Exam:  - The final exam will be comprehensive, closed books and  notes, The final exam will count 70% of the total course grade |

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| ***14. Course Structure*** | | | | | |
|  | Teaching  Method | Unit/Module or  Topic Title |  | Hours | Week |
|  | **Lecture and images slides** | **Identifying the local and international building materials /** |  | **2** | 1 |
|  | **Lecture and images slides** | **determining the effective factors on the quality of the materials and the methods of selecting them** |  | **2** | 2 |
|  | **Lecture and images slides** | **determining the effective factors on the quality of the materials and the methods of selecting them** |  | **2** | 3 |
|  | **Lecture and images slides** | **constructional concepts / walls, piers, partitions /** |  | **2** | 4 |
|  | **Lecture and images slides** | **constructional concepts / foundations / floors, ceilings** |  | **2** | 5 |
|  | **Lecture and images slides** | **Building by bricks / types of bricks /** |  | **2** | 6 |
|  | **Lecture and images slides** | **uses of bricks in the building processes /** |  | **2** | 7 |
|  | **Lecture and images slides** | **uses of bricks in the building processes /** |  | **2** | 8 |
|  | **Lecture and images slides** | **binding by bricks and seaming** |  | **2** | 9 |
|  | **Lecture and images slides** | **Building by stone / kinds of stones /** |  | **2** | 10 |
|  | **Lecture and images slides** | **types of stone walls / joints in bonding stone masses** |  | **2** | 11 |
|  | **Lecture and images slides** | **Building by concrete masses (blocks)** |  | **2** | 12 |
|  | **Lecture and images slides** | **Various bonding materials used in bonding blocks** |  | **2** | 13 |
|  | **Lecture and images slides** | **Various bonding materials used in bonding blocks** |  | **2** | 14 |
|  | **Lecture and images slides** | **Building units in walls / defining them / their characteristics / their kinds.** |  | **2** | 15 |
|  | **Lecture and images slides** | **Wood / its uses in building /** |  | **2** | 16 |
|  | **Lecture and images slides** | **Wood constructional properties / its defects / wood bearing walls/ timbers (framing)** |  | **2** | 17 |
|  | **Lecture and images slides** | **Iron and steel / their uses in building / their constructional properties / structural systems** |  | **2** | 18 |
|  | **Lecture and images slides** | **Iron and steel / their uses in building / their constructional properties / structural systems** |  | **2** | 19 |
|  | **Lecture and images slides** | **Finishing's materials and works /** |  | **2** | 20 |
|  | **Lecture and images slides** | **the materials used and the finishing works of exterior and interior wall** |  | **2** | 21 |
|  | **Lecture and images slides** | **/ the materials used and the finishing works of exterior and interior floors** |  | **2** | 22 |
|  | **Lecture and images slides** | **Anti-moisture materials / definition of the kinds of the anti-moisture materials and its most important characteristics /** |  | **2** | 23 |
|  | **Lecture and images slides** | **how to protect buildings from the leakage of moisture through the ground, through the foundations, through floors and through ceilings** |  | **2** | 24 |
|  | **Lecture and images slides** | **Methods of heat transfer /** |  | **2** | 25 |
|  | **Lecture and images slides** | **the treatments of the thermal insulation in buildings / fire resisting** |  | **2** | 26 |
|  | **Lecture and images slides** | **the treatments of the thermal insulation in buildings / fire resisting** |  | **2** | 27 |
|  | **Lecture and images slides** | **The general principles of building technologies /** |  | **2** | 28 |
|  | **Lecture and images slides** | **the role of the building materials in the overall building process /** |  | **2** | 29 |
|  | **Lecture and images slides** | **Types of the constructional systems.** |  | **2** | 30 |
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| ***15. Infrastructure*** | | |
| * **Building Construction / Atif Alsuhairy.** * **Building Construction and Load-bearing walls / Anees Juad.** * **Building Construction / W.B.McKay.** | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * Engel, Heino, ***Structure Systems***, Deutsch Verlages-anstalt, Stuttgart 4th Edition, 1977. * U.S. Department of Labor, ***Concrete and Masonry Construction***, Occupational Safety and Health Administration press, 1998. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| * Field and scientific visits.   Extra lectures by foreign guest lecturers | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **Code No. ARC105** | | Pre-requisites |
| - | | Minimum number of students |
| 70 | | Maximum number of students |
| ***Instructor:***  **Dr. Osamah Abdul-Moneem Al-timimy**  Instructor of Architectural Engineering /  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964 7901156721  Email:  eng\_usama\_oat@yahoo.com | | ***17. Course Instructors*** |

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Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form for the Academic Year 2016-2017

University: Baghdad

College: Engineering

Number of Departments in the College: 12 Twelve

Date of Form Completion: Oct. – 10 / 2017

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Dean’s Name

Date: / 10 / 2017

Signature

Dean’s Assistant for Scientific Affairs

Date: / / 2017

Signature

The College Quality Assurance and University Performance Manager

Date: / / 2017

Signature

Quality Assurance and University Performance Manager

Date: / / 2017

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programed specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architecture Department | ***2. University Department/Centre*** |
| Mathematics **GS106**  The Course is to provide the student with a general idea about mathematics as basic principles to the student of the College of Engineering and adding some engineering applications which will benefit the student in his progressive stages. | ***3. Course title/code & Description*** |
| Architecture engineering | ***4. Programme (s) to which it Contributes*** |
| Annual System; There is only one mode of delivery, which is a “Day Program”. The students are full time  Students, and on campus. They attend full day program in face-to-face mode. The academic year is  Composed of 30-week regular subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 60 hrs. /2hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The aim is to provide the student with a general idea about mathematics as basic principles to the student of the College of Engineering and adding some engineering applications which will benefit the student in his progressive stages. | |

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| ***10·*** ***Learning Outcomes***  Adding some engineering applications which will benefit the student in his progressive stages. |
| ***11.*** ***Teaching and Learning Methods***  1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application. |
| ***12. Assessment Methods***  Examinations, Tests, and Quizzes. |
| ***13. Grading Policy***   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Final Examination** | **Laboratory Work** | **Second Term** | **Midterm Exam** | **First Term** | | **70%** | **none** | **15%** | **None** | **15%** | |

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| **Theoretical Content** | Week |
| General introduction about the numbers system, translations and the absolute value / first part | 1 |
| General introduction about the numbers system, translations and the absolute value / second part | 2 |
| Function, its definition, finding the domain and the range | 3 |
| Composite functions and their inverse and drawing these functions, their domain and range | 4 |
| Composite functions and their inverse and drawing these functions, their domain and range | 5 |
| The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima) | 6 |
| The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)- continued | 7 |
| The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)- continued | 8 |
| The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)- continued | 9 |
| The derivative and its applications (ordering and composite functions and their inverses and the applications of the derivative such as finding the approximate value and the application of maxima and minima)- continued | 10 |
| Detailed mapping of functions | 11 |
| Detailed mapping of functions | 12 |
| Lubietal rule to find the maxima and minima | 13 |
| Determinants | 14 |
| Conical sections (their various kinds and writing the axes with regard to the sectors) | 15 |
| Conical sections (their various kinds and writing the axes with regard to the sectors) - continued | 16 |
| Integration: a general introduction about integrations of traditional functions | 17 |
| Integration: a general introduction about integrations of traditional functions- continued | 18 |
| Definite integration | 19 |
| Definite integration | 20 |
| Superior functions (for logarithms, natural logarithms function and exponential logarithm, their drawings, derivation and integration) | 21 |
| Superior functions (for logarithms, natural logarithms function and exponential logarithm, their drawings, derivation and integration) - continued | 22 |
| Superior functions (for logarithms, natural logarithms function and exponential logarithm , their drawings, derivation and integration) – continued\ | 23 |
| Applications of integration (distances and sizes of areas related around a certain axis, the length of the arc of curves and the rotational surface area) | 24 |
| Applications of integration (distances and sizes of areas related around a certain axis, the length of the arc of curves and the rotational surface area) - continued | 25 |
| Methods of integration (method by parts, integration by trigonometric rations and integration by partial fractions) | 26 |
| Methods of integration (method by parts, integration by trigonometric rations and integration by partial fractions) | 27 |
| Methods of integration (method by parts, integration by trigonometric rations and integration by partial fractions) | 28 |
|  | 29 |
|  | 30 |

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| ***15. Infrastructure*** | | |
| ***Textbook***   * **Ross L. Finney “Calculus” Vol. 1.** * **Ross L. Finney “Calculus” Vol. 2**   ***References***  **فرانك جونيوز، اليوت مندلسون "حساب التفاضل والتكامل سلسلة شوم".**  **ادوين برسيل، ديل فاربيرك "التفاضل والتكامل مع الهندسة التحليلية".** | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **GS106** | | Pre-requisites |
| / | | Minimum number of students |
| 60 | | Maximum number of students |
| Asst. Lecturer: Sura Ali Azeez  Email: suradaa@yahoo.com | | ***17. Course Instructors*** |

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Republic of Iraq

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International Accreditation Dept.

Academic Program Specification Form for the Academic Year 2016-2017

University: Baghdad

College: Engineering

Number of Departments In The College:

Date Of Form Completion : Oct. – 10 / 2017

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Dean ’s Name

Date : / 10 / 2017

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Dean’s Assistant For Scientific Affairs

Date: / / 2017

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The College Quality Assurance And University Performance Manager

Date: / / 2017

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Quality Assurance And University Performance Manager

Date : / / 2017

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

|  |
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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| --- | --- |
| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architecture Engineering Department  (AED) | ***2. University Department/Centre*** |
| **GS 107 Computer Programming I:**  The aim is to provide the student with a general idea about computer as basic principles such as AutoCAD, Power point program, what is power point, and how to enter the program. | ***3. Course title/code & Description*** |
| Architecture Engineering | ***4. Programme (s) to which it Contributes*** |
| Annual System ; There is only one  mode of delivery, which is a “Day  Program”. The students are full time  students, and on campus. They attend  full day program in face-to-face  mode. The academic year is  composed of 30-week regular  subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 90 hrs. / 3 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| **The aim**  The aim is to provide the student with a general idea about computer as basic principles such as AutoCAD, Power point program, what is power point, and how to enter the program. | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able design and draw by Auto CAD program and have general idea about computer as basic principles such as Power point program, what is power point, and how to enter the program |
|  |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application.  7. Extracurricular Activities.  8. Seminars.  9. In- and Out-Class oral conservations.  10. Reports, Presentations, and Posters. |
| ***12. Assessment Methods***  1. Examinations, Tests.  2. Extracurricular Activities.  3. Student Engagement during Lectures.  4. Responses Obtained from Students, Questionnaire about  Curriculum and Faculty Member ( Instructor ). |
|  |

**Computer Programming I- Code No. GS107**

**The first term**

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| **Week** | **Subject** |
| 1st week | Identifying the computer , its components and how it works |
| 2nd +3rd week | Identifying the file, its types, and explaining the MS-DOS system and its orders |
| 4th week | Introduction to windows, desktop. Using the mouse, my computer, closing any open window, temporary closes |
| 5th week | Zooming any window, creating new folder, select, find folder or file, copying from any folder to another |
| 6th week | How to start any program, print program, shut down, formatting floppy disk, scan disk, arranging icons, run, help |
| 7th week | Microsoft world, file (new, open, close, save, save as, save as page setup, print preview, print) edit (undo typing, repeat typing, and cut copy, paste. Clear, select all, find replace, go to) |
| 8th week | view (tools bars, header and footer, zoom) insert (page numbers, sample, footnote, picture, text box, object) format (font paragraph, bullets and numbering, orders and shading, columns) |
| 9th week | Tools (spelling and grammar, language) table (insert table, insert rows, delete cells, split cells, select rows, select column) |
| 10th week | Table (table auto format, sort formula) |
| 11th week | Microsoft excel: how to start excel program, menu bar tool  Bar formula bar, worksheet , cell, creating new workbooks, open existing workbooks |
| 12th week | Clearing cells, saving your work, closing workbooks, zoom, drag and drop, insert cells, delete cells, find , replace, auto sum |
| 13th week | Enter formula manually, formatting work sheet, auto format, print, print preview |
| 14th week | Charts |
| 15th week | Examination |

**The second term**

|  |  |
| --- | --- |
| **Week** | **Subject** |
| 1st week | Power point program / what is power point? How to enter the program.  File: new, open, close, save, save as, page, setup, print, exit |
| 2nd week | Edit: undo report, cut, copy, paste, select all clear, duplicate, delete slide, find, replace.  New: slide, slide show, tools, header and footer, zoom |
| 3rd week | Insert: new slide, slide number, date and time, slide from file, picture, and text box. Movies and sounds, chart, object, tools: spelling |
| 4th week | Format: font alignment, text direction, slide lay out, background, apple deeding  Slide show: view show rehearse taming, setup show, preset animation and animation preview, slide transition |
| 5th week | A lecture about what the spread sheet programs are, and the specialty of excel program |
| 6th week | Explaining the possibilities of entrance, exit and saving and recalling data |
| 7th week | Explaining the possibilities of edit (delete, copy, move) |
| 8th week | Orders of presentation and their accessories |
| 9th week | Input and edit data orders |
| 10th week | the possibilities of format |
| 11th week | Orders of tools |
| 12th+13th week | Internet |

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| ***15. Infrastructure*** | | |
| * The Illustrated AutoCAD Quick Reference by Ralph Grabowski 2013 | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * AutoCAD reference guide: everything you wanted to know about AutoCAD by Dorothy Kent 2009 | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| * examples.   Extra lectures | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **Code No. GS107** | | Pre-requisites |
| - | | Minimum number of students |
| 70 | | Maximum number of students |
| ***Instructor:***  **Asst. Prof. Dr. Zainab Radi Abaas**  Instructor of Architecture Engineering /  College of Engineering  University of Baghdad  Tel: +00964 7712929294  Email:  [@yahoo.com](mailto:eng_usama_oat@yahoo.com) | | ***17. Course Instructors*** |

Republic of Iraq

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Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2016-2017

University: Baghdad

College : Engineering

Number Of Departments In The College : 12 Twelve

Date Of Form Completion : Oct.– 10 / 2017

Dean ’s Name

Date : / 10 / 2017

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2017

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The College Quality Assurance And University Performance Manager

Date : / / 2017

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Quality Assurance And University Performance Manager

Date : / / 2017

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

|  |
| --- |
| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Department of Architectural Engineering | ***2. University Department/Centre*** |
| English Language I / **G.E 109** | ***3. Course title/code& Description*** |
| Architectural Engineering (AE) | ***4. Programme(s) to which it Contributes*** |
| Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is  composed of 30-week regular subjects | ***5. Modes of Attendance offered*** |
| 1st & 2nd ***6. Semester/Year*** / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 60 hrs. / 2 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| **G.E 109 English Language:**  The subject aims to develop the student's communicative linguistic skills: speaking, listening, reading and writing. It does so by having a rapid grammatical review of what the students have taken at the secondary school. It starts with reviewing the parts of speech in English, tenses in English, basic sentence structure, forming questions, spelling and pronunciation, negation and exclamation in English. Those grammatical categories are taught on three basic principles: form, meaning and use.    A special attention is paid to studying the frequently confused words, homophones and homographs. The course also aims at developing the student’s writing through teaching the students how to write short passages and to make themselves clear when they write by choosing the appropriate grammatical tense, vocabulary items and using cohesive devices to make their texts coherent.  In an attempt to bring the subject closely to the architectural study, concentration is made on teaching the frequently used architectural terms in English. The course also includes reading and comprehension of English stories as well as architectural texts. | |

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| ***10·Learning Outcomes*** |
| At the end of the course, the students will:   1. Be able to recognize the different parts of speech and how to change the part of speech of words. 2. Be able to distinguish how to use the English grammatical tenses appropriately 3. Be able to use the grammatical and sentential constructions correctly and appropriately 4. Be able to distinguish the frequently confused words. 5. Be able to write short passages. 6. Be acquainted with the mostly used architectural terms. 7. Be able to read and comprehend English passages and texts. |
| ***11.Teaching and Learning Methods*** |
| 1. Lectures 2. Homework and Assignments. 3. Tests and Exams 4. In-Class Questions and Discussions. 5. Conversation 6. Using audio and visual educational technology 7. Presentations |
| ***12. Assessment Methods***  1. Examinations, Tests, and Quizzes.  2. Student Engagement and participation during Lectures.  3. Presentations by students |
| ***13. Grading Policy***  1. Quizzes. There are two quizzes; on in each semester. The quizzes count 5% of the total course grade.  2. Student Engagement and participation during lectures which count 5% of the total course grade.  2. Semester exams. There are two exams; one for each semester. The exams count 20% of the total course grade.  3. the final exam is a written comprehensive exam which take place in June from 9:00 AM - 12:00 PM and which counts 70% of the total grade. |

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| ***14. Course Structure*** | | | | | | |
| Assessment method | Teaching method | Unit/Module or  Topic Title | LOs | hours | Week |
| Article (12) | Article (11) | Review | Article (10) | 2 | 1 |
| Article (12) | Article (11) | Parts of speech: nouns, pronouns, articles, verbs. | Article (10) | 2 | 2 |
| Article (12) | Article (11) | Parts of speech (continued): adjectives, adverbs, prepositions | Article (10) | 2 | 3 |
| Article (12) | Article (11) | Verb to be: uses and forms.  Tenses: simple present tense, simple present continuous tense, present perfect | Article (10) | 2 | 4 |
| Article (12) | Article (11) | Tenses (continued): simple past, past continuous, past perfect, simple future, future continuous, future perfect | Article (10) | 2 | 5 |
| Article (12) | Article (11) | Basic sentence structure: what is a sentence? How to form a sentence? The simple sentence | Article (10) | 2 | 6 |
| Article (12) | Article (11) | Wh-questions, relatives: defining and non-defining clauses | Article (10) | 2 | 7 |
| Article (12) | Article (11) | Basic sentence structure (continued): compound and complex sentences | Article (10) | 2 | 8 |
| Article (12) | Article (11) | The sounds of English: consonants and vowels | Article (10) | 2 | 9 |
| Article (12) | Article (11) | The sounds of English: consonants and vowels (continued) | Article (10) | 2 | 10 |
| Article (12) | Article (11) | Spelling: the rules of spelling | Article (10) | 2 | 11 |
| Article (12) | Article (11) | Spelling: the rules of spelling (continued) | Article (10) | 2 | 12 |
| Article (12) | Article (11) | semester examination | Article (10) | 2 | 13 |
| Article (12) | Article (11) | Conversation | Article (10) | 2 | 14 |
| Article (12) | Article (11) | Review | Article (10) | 2 | 15 |
| Article (12) | Article (11) | Modal auxiliaries: shall, will, etc. | Article (10) | 2 | 16 |
| Article (12) | Article (11) | Countable and uncountable nouns | Article (10) | 2 | 17 |
| Article (12) | Article (11) | Frequently confused words | Article (10) | 2 | 18 |
| Article (12) | Article (11) | Negation | Article (10) | 2 | 19 |
| Article (12) | Article (11) | Exclamation | Article (10) | 2 | 20 |
| Article (12) | Article (11) | Punctuation and capitalization | Article (10) | 2 | 21 |
| Article (12) | Article (11) | Writing short passages | Article (10) | 2 | 22 |
| Article (12) | Article (11) | Vocabulary: engineering and architectural terms | Article (10) | 2 | 23 |
| Article (12) | Article (11) | Vocabulary: engineering and architectural terms (continued) | Article (10) | 2 | 24 |
| Article (12) | Article (11) | Reading and discussing architectural passages | Article (10) | 2 | 25 |
| Article (12) | Article (11) | Reading and discussing architectural passages (continued) | Article (10) | 2 | 26 |
| Article (12) | Article (11) | Reading and discussing architectural passages (continued) | Article (10) | 2 | 27 |
| Article (12) | Article (11) | semester examination | Article (10) | 2 | 28 |
| Article (12) | Article (11) | Review | Article (10) | 2 | 29 |
| Article (12) | Article (11) | Review | Article (10) | 2 | 30 |

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| ***15. Infrastructure*** | | |
| ***Textbook***   * Riggenbach, H and Samuda, V.(2000) Grammar dimensions: form, meaning and use. Boston: Thomson Heinle Publishing.   ***Dictionaries***   * Oxford picture dictionary * Oxford word power dictionary   ***Others***   * A collection of short English passages * Handouts prepared by the instructor | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * www. Dictionaryreference.com * BBC learning English | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship, field studies) | |
| ***16. Admissions*** | | |
| / | | Pre-requisites |
| 25 | | Minimum number of students |
| 35 | | Maximum number of students |
| Instructor:  Lecturer of English Language and Linguistics  **Dr. Layth Muthanna Khaleel**  College of Engineering  University of Baghdad  Tel: +964 7901320118  **Email:** laythfahmi@yahoo.com | | ***17. Course Instructors*** |

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architecture Engineering Department (ARC) | ***2. University Department/Centre*** |
| **Architectural Design -Code No. ARC201**  This is the main subject in grade 2. It is a practical lesson for designing several projects along the year, based on the work of students who submit regularly their attempts in solving design problems.  The project of each student will be corrected and developed by teachers ,and at the end of each subjects period there will be unique improved design for each student. The directions of teachers will focus on the philosophical, structural, functional aims, as well as form and presentation of each project. | ***3. Course title/code & Description*** |
| It has a benefit on each lesson in this grade.  It trains the student to understand and be active in all other lessons. It specially contributes with Architectural Graphic lessons and Building Construction lesson. | ***4. Programme (s) to which it Contributes*** |
| Annual System ; There is only one  mode of delivery, which is a “Day  Program”. The students are full time  students, and on campus. They attend  full day program in face-to-face  mode. The academic year is  composed of 30-week regular  subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 300 hrs. / 10 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The second year of architectural study represents an important transitional stage where the student is transferred from the stage of preparing abstract identified designs (represented in the First year) to a more comprehensive stage in its definition of architecture as being (usefulness, firmness, delight). It also concentrates on the concept of local identity and integration with the context and urban scene. | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will have an experience that enables him to understand, design, and make evaluation of each project he has designed. Especially houses and educational public buildings ,also he becomes capable of producing Working Drawing sets for houses. |
| ***11.*** ***Teaching and Learning Methods*** |
| Gradually development of projects by submissions of students of the stages of the project / General and special criticism./ Tests and Exams(day sketches) / In-Class Questions and Discussions/Connection between Theory and Application. |
| ***12. Assessment Methods***  Lectures / Field Trips/ Seminars/ In- and Out-Class oral conservations.. |
| ***13. Grading Policy***  First project :(Exhibition) 5%  Second project : ( Family House) 25%  Third project : (Working Drawing of the house) 10%  Fourth project : (Educational Centre) 30%  Day sketches and Tests: 30%  Total grade: 100% |

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| ***14. Course Structure*** | | | | | |
| Assessment  Method | Teaching  Method | Topic Title |  | Hours | Week |
|  |  | 1st project(Exhibition)  Survey & study |  | 10 | 1 |
|  |  | 1st project(Exhibition)  plans |  | 10 | 2 |
|  |  | 1st project(Exhibition)  Sections & elevations |  | 10 | 3 |
|  |  | 2nd project(Family house)  Survey & study |  | 10 | 4 |
|  |  | 2nd project(Family house)  study |  | 10 | 5 |
|  |  | 2nd project(Family house)  First concept |  | 10 | 6 |
|  |  | 2nd project(Family house)  Development of concept |  | 10 | 7 |
|  |  | 2nd project(Family house)  Plans |  | 10 | 8 |
|  |  | 2nd project(Family house)  Development of plans |  | 10 | 9 |
|  |  | 2nd project(Family house)  Development of plans |  | 10 | 10 |
|  |  | 2nd project(Family house)  Sections & Elevations |  | 10 | 11 |
|  |  | 2nd project(Family house)  Sections & Elevations |  | 10 | 12 |
|  |  | 2nd project(Family house)  Sections & Elevations |  | 10 | 13 |
|  |  | 2nd project(Family house)  Presentation |  | 10 | 14 |
|  |  | 2nd project(Family house)  Presentation |  | 10 | 15 |
|  |  | 3rd project(Working drawing)  Plans of Site ,foundation ,ground floor |  | 10 | 16 |
|  |  | 3rd project(Working drawing)  Plans of first floor, roof & elevation |  | 10 | 17 |
|  |  | 3rd project(Working drawing)  Section, tables of doors & windows |  | 10 | 18 |
|  |  | 3rd project(Working drawing)  Stairs plan & sections, table of materials. |  | 10 | 19 |
|  |  | 4th project(Educational Centre)  Survey & study |  | 10 | 20 |
|  |  | 4th project(Educational Centre)  Survey & study |  | 10 | 21 |
|  |  | 4th project(Educational Centre)  First concept |  | 10 | 22 |
|  |  | 4th project(Educational Centre)  Plans |  | 10 | 23 |
|  |  | 4th project(Educational Centre)  Plans |  | 10 | 24 |
|  |  | 4th project(Educational Centre)  Plans |  | 10 | 25 |
|  |  | 4th project(Educational Centre)  Sections |  | 10 | 26 |
|  |  | 4th project(Educational Centre)  Elevations |  | 10 | 27 |
|  |  | 4th project(Educational Centre)  Elevations |  | 10 | 28 |
|  |  | 4th project(Educational Centre)  Presentation |  | 10 | 29 |
|  |  | 4th project(Educational Centre)  Presentation |  | 10 | 30 |

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| ***15. Infrastructure*** | | |
| * Ching, Francis D.k., Architecture –Form, Space, and Order , Second Edition, John Wiley & Sons,inc.,Canada. 1996, * Neufert,p&Ernst, Architects’ Data, Third edition, Blackwell Publishing Co.UK,2000 * Karlen,M. Space Planning Basics,John Wiley&sons, 2004 | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| Available websites related to the subject.  -Periodical seminars | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| Guest lectures , internship , visits to locations and buildings) | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **ARC101& ARC102** | | Pre-requisites |
| / | | Minimum number of students |
| 30 | | Maximum number of students |
| **Lecturer .Hala Shamsi Aldiwani**  (Environment & Technology)  Architecture Engineering Department.  College of Engineering  University of Baghdad  **Email:** [hala \_aldywani@yahoo.com](mailto:hala%20_aldywani@yahoo.com)  ***Teaching Assistant:***  **Asst. Lecturer .Asmaa Sadek Abdulkareem**  (Theory of Architecture)  Architecture Engr. Dept.  College of Engineering  University of Baghdad  **Email:** [asmalanee@yahoo.com](mailto:asmalanee@yahoo.com)  **Engineer .Sahar Mohammed Abdalbaqi**  Architecture Engr. Dept.  College of Engineering  University of Baghdad | | ***17. Course Instructors*** |

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| **College of Engineering**  **University of Baghdad** | ***1. Teaching Institution*** |
| **Architecture Engineering Department**  **(AED)** | ***2. University Department/Centre*** |
| **Freehand Drawing / Code No. Arc 203**  **Second Year**  Developing the student's skills in using watercolors and poster, in advanced techniques, Developing the student's ability to control the complex shapes in advanced techniques, A practical practice of how to present the projects through perspectives by using colors and to make use of them in the subjects of design. | ***3. Course title/code & Description*** |
| **Freehand Drawing** | ***4. Programme (s) to which it Contributes*** |
| Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face  mode. The academic year is composed of 30-week regular subjects. | ***5. Modes of Attendance offered*** |
| First and second / Year 2016 – 2017 | ***6. Semester/Year*** |
| 4 hrs. per week / 120 hours yearly | ***7. Number of hours tuition (total)*** |
| Oct.– 10 / 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The subject aims to identify the student with the :   1. Drawing by water colors and poster colors identifying the origins of modern drawing . 2. Producing color tones which is the color circle. Comparing colors with a number of its possible tones. 3. the reflections of colors on different materials, drawing still life composition. 4. Drawing trees from nature in water colors. 5. Drawing the surrounding landscape of the buildings. 6. The basics of perspective in the buildings of one and two vanishing points, 7. Perspective of high buildings in three vanishing points 8. Drawing pieces of furniture. 9. Quick sketches for buildings with their environmental surrounding by using water colors with inking pens or pencils or colored pencils together. 10. Drawing a figure with simple use of water colors. | |

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| ***10·*** ***Learning Outcomes*** |
| 1. Developing the student's skills in using watercolors and poster in advanced techniques. 2. Developing the student's ability to control the complex shapes in advanced techniques. 3. A practical practice of how to present the projects through perspectives by using colors and to make use of them in the subjects of design. 4. Strengthening the student's skill of transforming what is in his mind to an image which can be realized through freehand drawing. 5. Identifying the student with the most outstanding artistic movements and Arab and Iraqi artists. This is performed through theoretical lectures accompanied by a slide show of their works, in addition to students' visits to the artistic exhibitions of those artists in Iraq. 6. Identifying the student with ceramic materials, sculpture and letting him feel the mass through making some exercises by using mud and gypsum which help him to increase his skill in presenting his design project especially the three dimensional ones and that adds to these projects a more beautiful and a more close picture to reality. 7. Drawing some graphic drawings by watercolors and graphic drawings to selected areas in the student's place of living. These drawings and design works are submitted at the beginning of the third academic year. |
| ***11.*** ***Teaching and Learning Methods*** |
| * In class Drawing a still life * In-Class Questions, Discussions and sketches. * Lectures using data show about art and famous artists. * Homework. * Reports and Presentations. * Out-Class Drawing the surrounding buildings and landscape. * Trips to the artistic exhibitions. * Tests and Exams. |
| ***12. Assessment Methods***  *-* Quick sketches.  - Drawing.  - Tests.  - Final Exam. |
| ***13. Grading Policy***  1. Tests:  - There will be a (10) closed books and notes quizzes during the year , The quizzes will count (20%) of the total grade.  2. Drawing in class:  There will be a (20) projects during the year , there will count (20%) of the total grade.  3. homework:  There will be a (20) projects during the year , there will count (20%) of the total grade.  4. The task of the spring holiday:  The task is the transcription of international or Arab or local painting or drawing the facade of famous building by water colors, The task will count (5%) of the total course grade.  5. The task of the Summer holiday:  The task will count (5%) of the total course grade.  5. Final Exam:  - The final exam will be comprehensive, closed books and  notes, The final exam will count (30%) of the total course grade . |

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| ***14. Course Structure*** | | | | | |
|  | **Teaching**  **Method** | **Unit/Module or**  **Topic Title** |  | **Hours** | **Week** |
|  | Comparing colors and homework | Drawing by water colors |  | 4 | 1 |
|  | Comparing colors and homework | emphasizing the intensity of color. |  | 4 | 2 |
|  | Comparing colors with a number of its possible tones and homework | Producing color tones which is the color circle |  | 4 | 3 |
|  | Drawing a still life and homework | Daily examination by monochromatic |  | 4 | 4 |
|  | Drawing a still life and homework | still life exercise by natural water color |  | 4 | 5 |
|  | Drawing a still life and homework | Exercise about the reflections of colors on materials |  | 4 | 6 |
|  | Drawing the surrounding landscape and homework | Drawing trees from nature in water colors. |  | 4 | 7 |
|  | Drawing the surrounding landscape and homework | Studying the details of the surrounding landscape of the buildings |  | 4 | 8 |
|  | Drawing the surrounding landscape and homework | Drawing the surrounding landscape of the buildings with evaluation of the previous stage |  | 4 | 9 |
|  | Drawing the surrounding buildings and homework | Explaining the basics of perspective in the buildings of one vanishing points |  | 4 | 10 |
|  | Drawing the surrounding buildings and homework | Explaining the basics of perspective in the buildings of two vanishing points |  | 4 | 11 |
|  | Drawing the interior of class and homework | Explaining the basics of perspective in the interior design of buildings |  | 4 | 12 |
|  | Drawing a still life and homework | Exercise about drawing kinds of glittering materials technologies, reflection , glass |  | 4 | 13 |
|  | Drawing a still life and homework | Drawing fruits and flowers from nature in water colors |  | 4 | 14 |
|  | Drawing a still life and homework | Examination at the end of the first term |  | 4 | 15 |
|  | Drawing a figure and homework | Studying figures: drawing a figure |  | 4 | 16 |
|  | Drawing a figure and homework | Quick sketches by crayons for figures in different positions |  | 4 | 17 |
|  | Drawing a still life and homework | Drawing still life composition by crayon colors |  | 4 | 18 |
|  | Drawing the surrounding buildings and homework | Perspective of high buildings in three vanishing points |  | 4 | 19 |
|  | Drawing a still life and homework | Quick sketches for a still life composition with background by using water colors and inking pens |  | 4 | 20 |
|  | Drawing the surrounding buildings and homework | Quick sketches for buildings surrounding by using water colors with inking pens or pencils or colored pencils together |  | 4 | 21 |
|  | Drawing a still life and homework | principles of drawing by poster colors |  | 4 | 22 |
|  | Drawing the surrounding buildings and homework | Drawing a perspective for surrounding buildings |  | 4 | 23 |
|  | Drawing the interior of class and homework | Drawing a perspective in the interior design of buildings by poster colors |  | 4 | 24 |
|  | Drawing a still life and homework | Drawing fruits by poster colors |  | 4 | 25 |
|  | Drawing the surrounding landscape and homework | Drawing trees and flowers by poster colors |  | 4 | 26 |
|  | Drawing the interior of class and homework | Drawing pieces of furniture by poster colors |  | 4 | 27 |
|  | Drawing a still life and homework | Drawing kinds of glittering materials technologies, reflection , glass by poster colors |  | 4 | 28 |
|  | Drawing a still life and homework | Quick sketches for still life by using poster colors with inking pens or pencils or colored pencils together |  | 4 | 29 |
|  | Drawing a still life and homework | (Life Examination) the right of the student to choose the suitable material for the drawing |  | 4 | 30 |

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| ***15. Infrastructure*** | | |
|  | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| Available websites related to the subject : art, artistic movements, famous artistes. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| -Theoretical lectures accompanied by a slide show of artists and their works, in addition to students' visits to the artistic exhibitions of those artists in Iraq. | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **Code No. Arc 203** | | Pre-requisites |
| **/** | | Minimum number of students |
| 70 | | Maximum number of students |
| ***Instructor:***  **Asst. Prof. Dr. Elham Ali**  ArchitecturalEngineering Department  College of Engineering  University of Baghdad  E- mail : [dr.elhamali77@yahoo.com](mailto:dr.elhamali77@yahoo.com)  ***Teaching Assistant:***  **Lecturer Ammar Salem**  ArchitecturalEngineering Department  College of Engineering  University of Baghdad  E- mail : ammarsalem1@yahoo.com  **Asst. lecturer Ali Basem**  ArchitecturalEngineering Department  College of Engineering  University of Baghdad  E- mail : [alfuraty\_ali@yahoo.com](mailto:alfuraty_ali@yahoo.com) | | ***17. Course Instructors*** |

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architecture Department | ***2. University Department/Centre*** |
| **Structure I ARC205**  The subject aims at identifying the student with the subject of forces and their analysis and distribution on the facilities as well as knowing the reactions in the buildings, presenting a summary about trusses and their types and the distribution of force on them and their structural behavior. | ***3. Course title/code & Description*** |
| Architecture engineering | ***4. Programme(s) to which it Contributes*** |
| Annual System; There is only one mode of delivery, which is a “Day Program”. The students are full time  Students, and on campus. They attend full day program in face-to-face mode. The academic year is  composed of 30-week regular subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 60 hrs. /2hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The subject aims at identifying the student with the subject of forces and their analysis and distribution on the facilities as well as knowing the reactions in the buildings, presenting a summary about trusses and their types and the distribution of force on them and their structural behavior. | |

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| ***10·*** ***Learning Outcomes***  the subject deals with finding the centers of gravity of the known areas. Then the subject studies the different interior stresses and the influences made by the types of forces and moments on the different engineering materials. The subject also considers the subject of elongation and its influence on some structural parts. |
| ***11.*** ***Teaching and Learning Methods***  1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application. |
| ***12. Assessment Methods***  Examinations, Tests, and Quizzes. |
| ***13. Grading Policy***   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Final Examination** | **Laboratory Work** | **Second Term** | **Midterm Exam** | **First Term** | | **70%** | **none** | **15%** | **None** | **15%** | |

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| **Theoretical Content** | Week |
| General introduction about forces, their kinds and affects | 1 |
| Resultant of forces in one level (meeting in one point and the parallel and the non-meeting in one point) | 2 |
| Resultant of forces in one level (meeting in one point and the parallel and the non-meeting in one point) | 3 |
| Resultant of forces in one level (meeting in one point and the parallel and the non-meeting in one point) | 4 |
| Resultant of forces in one level (meeting in one point and the parallel and the non-meeting in one point) | 5 |
| The couple (its definition and how to find it) | 6 |
| Equilibrium (general introduction, kinds of reactions on construction and applications about the subject) | 7 |
| Equilibrium (general introduction, kinds of reactions on construction and applications about the subject) | 8 |
| Equilibrium (general introduction, kinds of reactions on construction and applications about the subject) | 9 |
| Trusses, their kinds and finding the forces affecting on the internal members of the truss in the method of sections and the method of joints | 10 |
| Trusses, their kinds and finding the forces affecting on the internal members of the truss in the method of sections and the method of joints | 11 |
| Trusses, their kinds and finding the forces affecting on the internal members of the truss in the method of sections and the method of joints | 12 |
| Trusses, their kinds and finding the forces affecting on the internal members of the truss in the method of sections and the method of joints | 13 |
| Centers of gravity for areas (of graphical equations and combined areas) | 14 |
| Centers of gravity for areas (of graphical equations and combined areas) | 15 |
| Centers of gravity for areas (of graphical equations and combined areas) | 16 |
| Drawings of axial shear forces, and bending moments in lintels | 17 |
| Drawings of axial shear forces, and bending moments in lintels | 18 |
| Drawings of axial shear forces, and bending moments in lintels | 19 |
| Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments | 20 |
| Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments | 21 |
| Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments | 22 |
| Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments | 23 |
| Stresses their definition and applications The stress as a result of axial forces. The stress as a result of shear forces. The-stress as a result of bending moments | 24 |
| The reaction its definition and applications. | 25 |
| The reaction its definition and applications. | 26 |
|  | 27 |
|  | 28 |
|  | 29 |
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| ***15. Infrastructure*** | | |
| ***Textbook***  **Ferdinand L.Singer**  **“Engineering Mechanics”.**  ***References***  **Archie Higdon “Engineering Mechanics”.** | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **ARC205** | | Pre-requisites |
| / | | Minimum number of students |
| 60 | | Maximum number of students |
| Lecturer assistance: Ahmed Khudher Abdulridha  Tel: +00964-7903306716  Email: ahkhudher1978@yahoo.com | | ***17. Course Instructors*** |

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Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2016-2017

Universitiy: Baghdad

College : Engineering

Number Of Departments In The College :

Date Of Form Completion : oct. – 10 / 2016

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Dean ’s Name

Date : / 10 / 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

Signature

Quality Assurance And University Performance Manager

Date : / / 2016

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department  (AED) | ***2. University Department/Centre*** |
| **Computer Programme-Code No. GS208 Second Year**  The subject aims at identifying the second year students in the Department of Architectural Engineering with Auto CAD program and presenting a explanation about the different stages of the program and its fields of use. | ***3. Course title/code & Description*** |
| Architectural Engineering | ***4. Programme(s) to which it Contributes*** |
| Annual System ; There is only one  mode of delivery, which is a “Day  Program”. The students are full time  students, and on campus. They attend  full day program in face-to-face  mode. The academic year is  composed of 30-week regular  subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 90 hrs. / 3 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| **The aim**  Definition AutoCAD system by giving directives for 2D drawing to get to the possibility of drawing plans, sections, and by the AutoCAD software interfaces and then define 3D conversion schemes into three-dimensional forms to draw perspectives | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to:   * Make the students able to use the cad program in their design their projects |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions  . |
| ***12. Assessment Methods***  1. Examinations, Tests, and Quizzes.  2. Extracurricular Activities.  3. Student Engagement during Lectures.  4. Responses Obtained from Students, Questionnaire about  Curriculum and Faculty Member ( Instructor ). |
| ***13. Grading Policy***  1. Quizzes:  - There will be a ( 10) test on the computer  during the academic year.  - The test will count 40% of the total grade.  2. Tests, 2-3 Nos. and will count 20% of the total course grade.  4. Final Exam:  - The final exam will be comprehensive, closed books or  on the computer, The final exam will count 40% of the total course grade |

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| ***14. Course Structure*** | | | | | |
|  | Teaching  Method | Unit/Module or  Topic Title |  | Hours | Week |
|  |  | Aaldjul to CAD Auto program a simple explanation about the beginnings of this program and areas of use |  | **3** | 1 |
|  |  | Explanation drawing directives (are, circle, line, ... ect) |  | **3** | 2 |
|  |  | Explain directives amendment (erase, copy, offset, mirror, .. ect) |  | **3** | 3 |
|  |  | Explain the dimension style |  | **3** | 4 |
|  |  | Eid al-Adha holiday |  | **3** | 5 |
|  |  | Explain how the final output of the panels painted AutoCAD |  | **3** | 6 |
|  |  | Semester Examination theoretical |  | **3** | 7 |
|  |  | Practical exam |  | **3** | 8 |
|  |  | Explain AutoCAD 3D and areas of use |  | **3** | 9 |
|  |  | Explaining ways to move from two-dimensional to three-dimensional. Forms simplified configuration and three-dimensional Wire frame |  | **3** | 10 |
|  |  | Explaining ways to configure surfaces of three-dimensional forms |  | **3** | 11 |
|  |  | Explain directives modeling |  | **3** | 12 |
|  |  | Explain directive Extrude and Extrude path |  | **3** | 13 |
|  |  | Application instruct the Extrude planned |  | **3** | 14 |
|  |  | New Year holiday |  | **3** | 15 |
|  |  | Practical exam |  | **3** | 16 |
|  |  | Mid-year holiday |  | **3** | 17 |
|  |  | Application instruct the Extrude interfaces |  | **3** | 18 |
|  |  | Application instruct the Extrude details |  | **3** | 19 |
|  |  | Explain a prompt and uses presspul |  | **3** | 20 |
|  |  | Explain directives 3d move, 3d rotate, 3d align |  | **3** | 21 |
|  |  | Explain directives deletion and added, mergers |  | **3** | 22 |
|  |  | Explain directives loft, revolve, sweep |  | **3** | 23 |
|  |  | Application of the previous directives |  | **3** | 24 |
|  |  | Explain directives Face |  | **3** | 25 |
|  |  | Explain UCS |  | **3** | 26 |
|  |  | Theoretical exam & Add camera |  | **3** | 27 |
|  |  | Directives shadow and light |  | **3** | 28 |
|  |  | Directives Rendering |  | **3** | 29 |
|  |  | **exam** |  | **3** | 30 |
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| ***15. Infrastructure*** | | |
| * **Autocad learning (2012-2014)Mohammed khalf** * **Autocad 3D. Amjed Ali** | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * Autocad book, Abdul-Rahman Mohammed. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **Code No. GS208** | | Pre-requisites |
| - | | Minimum number of students |
| 70 | | Maximum number of students |
| ***Instructor:***  **Teacher: Sally fakhri khalaf al- bayati**  Instructor of Architectural Engineering /  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964 7813623887  Email:  sallyarch@yahoo.com | | ***17. Course Instructors*** |

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Republic of Iraq

Ministry of Higher Education & Scientific Research

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Quality Assurance and Academic Accreditation

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Academic Program Specification FormFor The Academic Year 2016-2017

Universitiy: Baghdad

College : Engineering

Number Of Departments In The College : 12 Twelve

Date Of Form Completion oct.– 10 / 2016

Dean ’s Name

Date : / 10 / 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

Signature

Quality Assurance And University Performance Manager

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Signature

**TEMPLATE FOR COURSE SPECIFICATION**

|  |
| --- |
| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

|  |
| --- |
| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

|  |  |
| --- | --- |
| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Department of Architectural Engineering | ***2. University Department/Centre*** |
| English Language II / G.E 209 | ***3. Course title/code& Description*** |
| Architectural Engineering (AE) | ***4. Programme(s) to which it Contributes*** |
| Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is  composed of 30-week regular subjects | ***5. Modes of Attendance offered*** |
| 1st & 2nd ***6. Semester/Year*** / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 60 hrs. / 2 hrs. per week | ***7. Number of hours tuition (total)*** |
| April – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The student continues what he has received in the first year. The course also consists of two parts. The first part is devoted to studying grammatical constructions like forming conditional sentences, knowing what is meant by phrasal verbs and how to form and use them, knowing what is meant by direct and indirect speech and how these constructions are applied in speech and writing. Passive voice construction is also considered and explained. The course also aims at explaining how to form adjectives and participles as adjectives, adverbs and adverbs types and quantifiers.  The second part of the course is devoted to reading, writing an conversation. Emphasis is made on the necessity to encourage the students to converse and use language and to build up the vocabulary items. This is usually performed by asking the students to read passages loudly in class then asking them to give their own opinion or summary of the topic. Similarly, students are required to write essays to be presented orally in front of the class and discussion is open to all other students and this procedure will encourage all the students to ask and reply using their English language. | |

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| ***10·Learning Outcomes*** |
| At the end of the course, the students will:   1. Be able to form and use conditional sentences 2. Be able to distinguish between one-word verbs and two-word (phrasal) verbs and they will know how to use them appropriately 3. Be able to distinguish between direct speech and indirect speech and they will know how to report others’ speech. 4. Be able to form and use sentences in the passive voice. 5. Be able to construct interrogative sentences using the question word ‘how’. 6. Be able to form tag questions. 7. Distinguish between the different types of adjectives and modifiers including participles as modifiers. 8. Distinguish between the different types of adverbs and how to use and place them in sentences. 9. Distinguish between prepositions of time and place. 10. Be able to use measure or quantity words appropriately. 11. Be able to distinguish and learn frequently confused words. 12. Be able to use conjunction constructions using ‘either ..or; neither.. nor, etc.’ 13. Learn the word order of English. 14. Learn numbers in English ‘cardinal, ordinal, adverbial and fractions. 15. Be able to write short passages, letters (email) 16. Be acquainted with architectural terms II 17. Be able to read and comprehend English passages and texts. 18. Be able to orally present their own essays. |
| ***11.Teaching and Learning Methods*** |
| 1. Lectures 2. Homework and Assignments. 3. Tests and Exams 4. In-Class Questions and Discussions. 5. Conversation 6. Audio and visual educational technology 7. Presentations |
| ***12. Assessment Methods***  1. Examinations, Tests, and Quizzes.  2. Student Engagement and participation during Lectures.  3. Presentations by students |
| ***13. Grading Policy***  1. Quizzes. There are two quizzes; on in each semester. The quizzes count 5% of the total course grade.  2. Student Engagement and participation during lectures which count 5% of the total course grade.  2. Semester exams. There are two exams; one for each semester. The exams count 20% of the total course grade.  3. the final exam is a written comprehensive exam which take place in June from 9:00 AM - 12:00 PM and which counts 70% of the total grade. |

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| ***14. Course Structure*** | | | | | |
| Assessment method | Teaching method | Unit/Module or  Topic Title | LOs  ( Article  10 ) | hours | Week |
| Article (12) | Article (11) | Rapid review | Article  (10) | 2 | 1 |
| Article (12) | Article (11) | Conditions and results: if, whether… or not, unless | Article (10) a | 2 | 2 |
| Article (12) | Article (11) | Two-word verbs | Article (10) b | 2 | 3 |
| Article (12) | Article (11) | Direct and indirect speech | Article (10) c | 2 | 4 |
| Article (12) | Article (11) | Passive voice | Article (10) d | 2 | 5 |
| Article (12) | Article (11) | Passive voice (continued) | Article (10) | 2 | 6 |
| Article (12) | Article (11) | How: questions and answers patterns | Article (10) e | 2 | 7 |
| Article (12) | Article (11) | Tag questions | Article (10) f | 2 | 8 |
| Article (12) | Article (11) | Adjectives: formation of the comparative and superlative | Article (10) g | 2 | 9 |
| Article (12) | Article (11) | Types of adverbs: place, time, frequency, manner | Article (10) h | 2 | 10 |
| Article (12) | Article (11) | Prepositions of time and place | Article (10) i | 2 | 11 |
| Article (12) | Article (11) | Words of quantity : some, any; much, many; too, enough | Article (10) j | 2 | 12 |
| Article (12) | Article (11) | Semester examination | Article (10) | 2 | 13 |
| Article (12) | Article (11) | Conversation | Article (10) | 2 | 14 |
| Article (12) | Article (11) | Review | Article (10) | 2 | 15 |
| Article (12) | Article (11) | Frequently confused words | Article (10) k | 2 | 16 |
| Article (12) | Article (11) | Conjunctions Either….or, neither…..nor, so and neither | Article (10) l | 2 | 17 |
| Article (12) | Article (11) | Word order | Article (10) m | 2 | 18 |
| Article (12) | Article (11) | Numbers: cardinal, adverbial, fraction | Article (10) n | 2 | 19 |
| Article (12) | Article (11) | Composition: how to write a composition | Article (10) o | 2 | 20 |
| Article (12) | Article (11) | Letter writing: personal and business letters | Article (10) o | 2 | 21 |
| Article (12) | Article (11) | Letter writing: personal and business letters (continued) | Article (10) o | 2 | 22 |
| Article (12) | Article (11) | Vocabulary: engineering and architectural terms | Article (10) p | 2 | 23 |
| Article (12) | Article (11) | Working with vocabulary (continued) | Article (10) p | 2 | 24 |
| Article (12) | Article (11) | Reading and discussing architectural passages | Article (10) q | 2 | 25 |
| Article (12) | Article (11) | Reading and discussing architectural passages (continued) | Article (10) q | 2 | 26 |
| Article (12) | Article (11) | Reading and discussing architectural passages (continued) | Article (10) q | 2 | 27 |
| Article (12) | Article (11) | Semester examination | Article (10) | 2 | 28 |
| Article (12) | Article (11) | Students’ oral presentation | Article (10) r | 2 | 29 |
| Article (12) | Article (11) | Students’ oral presentation | Article (10) r | 2 | 30 |

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| ***15. Infrastructure*** | | |
| ***Textbook***   * Riggenbach, H. and Samuda, V. (2000) Grammar dimensions: form, meaning and use. Boston: Thomson Heinle Publishing.   ***Dictionaries***   * Oxford picture dictionary * Oxford word power dictionary   ***Others***   * A collection of short English passages * Handouts prepared by the instructor | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures, internship ,field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
| 25 | | Minimum number of students |
| 35 | | Maximum number of students |
| Instructor:  Lecturer of English Language and Linguistics  Layth Muthanna Khaleel  College of Engineering  University of Baghdad  Tel: +964 7901320118  Email: laythfahmi@yahoo.com | | ***17. Course Instructors*** |

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Date : / 10 / 2016

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The College Quality Assurance And University Performance Manager

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**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

|  |  |
| --- | --- |
| College of Engineering  University of Baghdad | **1. Teaching Institution** |
| Architectural Engineering Department (AED) | **2. University Department/Centre** |
| Architectural Engineering ( AE ) Programme | **3. Course title/code & Description** |
| B.Sc. in Architectural Engineering | **4. Programme(s) to which it Contributes** |
| Annual System ; There is only one mode  of delivery, which is a “Day Program”.  The students are full time students, and on  campus. They attend full day program in  face-to-face mode. The academic year is  composed of 30-week regular subjects.  Each graduating student has to successfully complete 163 credits. Each subject credit isone 50-minute lecture a week or 3 hours of lab a week. There is no on-line subject which may be used as supplementary material for the class room instruction | **5. Modes of Attendance offered** |
| UNESCO – Iraq Office  NISA ( Network of Iraqi Scientists Abroad ) | **6. Semester/Year** |
| / | **7. Number of hours tuition (total)** |
| Oct.– 10 / 2016 | **8. Date of production/revision of this specification** |
| **9. Aims of the Course** | |
| 1. Graduate mechanical engineers to serve in industry, construction and other  sectors of the architectural engineering labour market.  2. Improving the teaching and administrative activities to meet international  accreditations standards and the mission of the department.  3. Improving the academic abilities of the faculty and attracting highly skilled  personnel.  4. Improve the abilities of management and technical support staff and attract the  highly skilled for employment.  5. Optimum use of resources and potentials of the department.  6. Cooperation, academic exchange programs, partnerships with other universities  and academic centres in developed countries.  7. Establishing viable applied research that generates knowledge for local and  foreign markets.  **10. Learning** | |

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| **10·** **Learning Outcomes** |
| Following a review of the ABET Criteria and the program  objectives, it has been decided by the ME Department that the ABET  Criteria (a - k) encompass the spirit of our educational vision. Therefore,  outcomes (a - k) were adopted as the ME POs. The Department POs are:  a. An ability to apply knowledge of mathematics, science, and engineering.  b. An ability to design and conduct experiments, as well as to analyze and  interpret data.  c. An ability to design a system, component, or process to meet desired  needs.  d. An ability to function on multi-disciplinary teams (Our interpretation of  multidisciplinary teams includes teams of individuals with similar  educational backgrounds focusing on different aspects of a project as  well as teams of individuals with different educational backgrounds).  e. An ability to identify, formulates, and solves engineering problems.  f. An understanding of professional and ethical responsibility.  g. An ability to communicate effectively.  h. The broad education necessary to understand the impact of engineering  solutions in a global and societal context.  i. A recognition of the need for, and an ability to engage in life-long  learning (Our interpretation of this includes teaching students that the  underlying theory is important because the technology changes, coupled  with enhancing their self-learning ability).  j. Knowledge of contemporary issues (Our interpretation of this include  *presenting students with issues such as the impact of globalization, the*  *outsourcing of both engineering and other support jobs as practiced by*  *modern international companies*).  k. An ability to use the techniques, skills, and modern engineering tools  necessary for engineering practice.  ME program develop the knowledge and skills that will enable students to:  apply basic mathematical and scientific concepts for the description and solution  of engineering problems,  develop initial proficiency in c engineering disciplines,  develop the ability to conduct experiments, and critically analyze and interpret  data,  perform architectural engineering integrated design of systems, components, or  processes by means of practical experiences (group projects),  identify, formulate, and solve architectural engineering problems using modern  engineering tools, techniques, and skills,  collaborate in group projects,  develop their written and oral communication skills through presentations of  project results,  acquire an appreciation for some of the ethical problems that arise in the exercise  of the profession, |
| **11.** **Teaching and Learning Methods** |
| 1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Lab. Experiments.  5. Tests and Exams.  6. In-Class Questions and Discussions.  7. Connection between Theory and Application.  8. Field Trips.  9. Extracurricular Activities.  10. Seminars.  11. In- and Out-Class oral conservations.  12. Reports, Presentations, and Posters. |

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| **12. Assessment Methods**  ***Program Outcome Assessment Techniques***  Survey of Alumni***.***  The related committees in the department; such as scientific-, QA-, student  affairs-, cooperation mechanism- committee.  Employment trends of our graduates will be tracked, e.g. place of employment  and job title, every year.  Survey of Employers of Graduates will be given at least every year to determine  if the PEOs are still relevant to the employers of our graduates.  The POs themselves will be re-evaluated every few years first by the faculty and  then with the Council Presidency Department. Informal review of the POs will  occur in conversations with alumni.  ***Summary of Student Outcomes Assessment Techniques***  Alumni survey.  Co-op Employer evaluation data is obtained at the end of the student co-op  experience from co-op employer surveys regarding student performance.  Student Co-op evaluation data is obtained from students at the end of their co-op  experience regarding the students’ perception of their performance.  Senior Exit Survey are given every year to determine how well students feel they  have achieved the student outcomes.  Summary of student performance is gathered in the form of final grades of the  ME courses.  Evaluation of student data, specifically of transcripts for each graduate, is  analyzed for time to graduation and retention rate as well as performance in ME  courses.  Embedded assessment is performed in every class, every year. Not all student  outcomes are evaluated in every single class but a representative sample is  chosen. This will be accomplished by assess student assignments, quizzes,  exams, lab reports, projects and presentations.  Examinations, Tests, and Quizzes.  Extracurricular Activities.  Student Engagement during Lectures.  Responses Obtained from Students, Questionnaire about Curriculum and  Faculty Member ( Instructor ). |

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| **13. Grading Policy**  The department offers engineering programs leading to the degree of Bachelor of  Science (B.Sc.), Master of Science (M.Sc.) and Doctor of Philosophy (Ph.D.) in  Architectural Engineering. The B.Sc. degree includes two specialties; the ***"General***  ***Architect"*** and the ***"Aeronautical Engineering"***, which was established at 1990 for the first time in the department, whereas the M.Sc. and Ph.D. degrees cover four areas of research; ***Thermo-Fluids, Applied Mechanics, Manufacturing of Engineering Materials and Industrial Engineering***.  The annual system of study is followed in the department for the (B.Sc.)  undergraduate study. The study period is 4 years with 163 units distributed over the four  years of study. The specialization in one of the two specialties; the ***"General***  ***Architect "*** and the ***"Aeronautical Engineering"*** is at the third and fourth years of  study. |

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| **Table (1): B.Sc. Degree Curriculum \ General *Architect* Engineering**  **14. Course Structure** | | | | | |
|  |  |  |  | **The first term** | Week |
|  |  |  |  | A simple multi-activity project to identify the student's designing ability during the first and second academic years and with a detailed discussion of the student's works during the summer holiday. | The 1st + 2nd +3rd + 4th week |
|  |  |  |  | The second project: is a compound project that contains small and medium size spaces like study halls and multi-purpose halls (academic or commercial complexes or medium size industrial projects or entertainment complexes built by reinforced concrete structures or iron structures with the adoption of some constructional details in the subject of building construction III that accompany the current project | The 5th week to the end of the first term |
|  |  |  |  |  |  |
|  |  |  |  | **The second term** |  |
|  |  |  |  | The third project: choosing a multistory project of a managerial or academic or housing nature, which contains recurrent floors, according to which, the student identifies the group of the structural details adopted in such skeletal structures (reinforced concrete or iron structures) with a complete application of the engineering systems like the sanitary, air-conditioning and interior lighting. | The 1st week to the end of the second term |

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| **15. Infrastructure** | | |
| * Architecture databook * Timeseverbook * AJ magazine * Many of otherarchitecture books | Required reading:  · COURSE TEXTS  · COURSE MATERIALS  · OTHER | |
| The subject includes quick tests in order to identify the student's ability in choosing the right designing decisions during a short period of time.  Field and scientific visits.  Available websites related to the subject | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| Field and scientific visits.  Extra lectures by foreign guest lecturers. | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| **16. Admissions** | | |
| **No. ARS301** | | Pre-requisites |
| / | | Minimum number of students |
| 22 | | Maximum number of students |
| ***Instructor:***  ***Lecturer : Fawzia Raheem Hussein***  Arch. Engr. Dept.  College of Engineering  University of Baghdad  ***Lecturer***  ***Sally Fakhry Khalaf***  Arch. Engr. Dept.  College of Engineering  University of Baghdad | | **17. Course Instructors** |

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve anddemonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

|  |  |
| --- | --- |
| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department (AED) | ***2. University Department/Centre*** |
| **Architectural Design / Arc 301**  The third academic year is considered the final stage of the database in the field of architectural engineering where the student identifies the compound and multifunctional projects concerning their used and different service spaces | ***3. Course title/code& Description*** |
| Architectural Design (AD) | ***4. Programme (s) to which it Contributes*** |
|  | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 360 hrs. / 12 hrs. per week | ***7. Number of hours tuition (total)*** |
| 1ST Project /October -13-2016  2nd Project /January -12-2017  3rd Project /June -28-2017 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** . The structural decisions and the technology of implementation are considered at the top of the designing presentation through choosing short and middle range projects which require structural courses and which are able to be implemented by reinforced concrete structures or iron structures . Then, in the second term, the student goes on to a multistory project .  The subject includes quick tests in order to identify the student's ability in choosing the right designing decisions during a short period of time. | |
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| ***10·Learning Outcomes*** In the 1st course the student identifies the most important structural details which he should know in this respect and a practical accompanying the subject of building structure (III) during the whole academic year  In the 2nd course, the student goes to learn the basics of designing typical buildings that have functional requirements like educational, administrative, residential and commercial buildings and to be acquainted with some of the structural details specified for this purpose, in addition to the possibility of applying what he has learned in the subjects the sanitary services, air-conditioning, lighting which have been given to him in the first and second terms. |
|  |
| ***11.Teaching and Learning Methods***  1. Lectures.  2. Seminars.  3. Field Trips.  4. Connection between Theory and Application.  5. In-Class Questions and Discussions.  6. Practical Application for Projects.  7. Homeworks.  8. Tests and Exams.  9. Project's final & Presentations. |
|  |
| ***12. Assessment Methods***  class work , Homework , presentations,  class discussion , evolutionary critique for concepts and projects ideas and appraise critically . |
| ***13. Grading Policy***  **Homeworks:**  - There will be a minimum of 12 sets of project homework during the academic year for the 3 projects will count 70%of the total courses grade .  **Quizzes:**  -There will be at least four day sketches during the academic year.  - The quizzes and day sketches will count 30% of the total courses grade. |

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|  |  |  | ***14. Course Structure*** |
|  | project | Hours/ week | Week |
|  |  |  | **1st course** |
| A small multi-events to get to know the student's ability design during the academic year and the second with the first extensive discussion of the work of the students during the summer vacation. | 1 | 12 | 1 ,2 ,3 ,4 |
| Complex project contains the spaces of small and medium-sized (classrooms and halls multipurpose (complexes Academy, commercial or industrial projects, medium-sized or recreational centers are implemented through structures of reinforced concrete or steel structures with the adoption of some of the details of construction in material installation Buildings III motorcade for the current project | 2 | 12 | 5 -15 |
|  |  |  | **2nd course** |
| Draft pick multi-storey administrative in nature or an academic or housing, Includes on-storey repeatedly acquainted with the student group on the details of construction approved in such structures construction (reinforced concrete or metal) with the application of an integrated health systems engineering and air conditioning engineering and interior lighting. | 3 | 12 | 1 - 15 |
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| ***15. Infrastructure*** | | |
| 1. …. Individual and working groups inside classes  2. …. Work field and Class Discussion  3. …. Standard, Architectural and Environmental 4…...Design Books, Example: Architectural data & Architectural standard  5. …..Strategies for Sustainable Architecture | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| 6. ….architectural journals that deal with architectural design  7….. access to global designs and examples of projects given  8. …see examples of global and local | Special requirements (include forexample workshops, periodicals,IT software, websites) | |
| ------ | Community-based facilities  (include for example, guest  Lectures , internship,field studies) | |
| ***16. Admissions*** | | |
| **Arc 301** | | Pre-requisites |
|  | | Minimum number of students |
| 28 - 30 | | Maximum number of students |
| Lecturer ofArchitectural Design  **Assistant teacher Inas H. Shukur**  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Email: [nos111111@yahoo.com](mailto:nos111111@yahoo.com)  Lecturer ofArchitectural Design  **Assistant teacher Aseel A. Latif**  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Email: **:** [**mmrreemm@yahoo.com**](mailto:mmrreemm@yahoo.com) | | ***17. Course Instructors*** |

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

|  |  |
| --- | --- |
| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Department | ***2. University Department/Centre*** |
| **Structure II ARC303**  The first part of the subject of structures in the third year is specified to generally cover the structural designs of the buildings designed by using reinforced concrete and through presenting the general concept of the basics of forces distribution, the method of finding the static of the structure, the stresses calculations, the strain of the used iron and concrete with analyzing the basics of concrete lintels, ceilings and columns. As for the second part, it is concerned with the basics of designing iron structure buildings, the analysis of iron columns, the stress parts in trusses and the designs of some types of sills. The theoretical coverage includes some scientific applications in a laboratory specialized for raw material and through a group of experiments which include: bricks, terrazzo tiles, concrete, iron of reinforcement, stone (cladding and enveloping), marble, wood and fine and rough aggregate | ***3. Course title/code & Description*** |
| Architecture engineering | ***4. Programme(s) to which it Contributes*** |
| Annual System; There is only one mode of delivery, which is a “Day Program”. The students are full time  Students, and on campus. They attend full day program in face-to-face mode. The academic year is  composed of 30-week regular subjects. | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 60 hrs. /2hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The first part of the subject of structures in the third year is specified to generally cover the structural designs of the buildings designed by using reinforced concrete and through presenting the general concept of the basics of forces distribution, the method of finding the static of the structure, the stresses calculations, the strain of the used iron and concrete with analyzing the basics of concrete lintels, ceilings and columns. | |

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| ***10·*** ***Learning Outcomes***  it is concerned with the basics of designing iron structure buildings, the analysis of iron columns, the stress parts in trusses and the designs of some types of sills. The theoretical coverage includes some scientific applications in a laboratory specialized for raw material and through a group of experiments which include: bricks, terrazzo tiles, concrete, iron of reinforcement, stone (cladding and enveloping), marble, wood and fine and rough aggregate. |
| ***11.*** ***Teaching and Learning Methods***  1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application. |
| ***12. Assessment Methods***  Examinations, Tests, and Quizzes. |
| ***13. Grading Policy***   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Final Examination** | **Laboratory Work** | **Second Term** | **Midterm Exam** | **First Term** | | **70%** | **none** | **15%** | **None** | **15%** | |

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| **Theoretical Content** | Week |
| A general introduction about the structures, forces distribution and the forces types imposed on them | 1 |
| A general introduction about the structures, forces distribution and the forces types imposed on them | 2 |
| The statically defined and undefined structures and how to find out the static degree of the structure | 3 |
| The statically defined and undefined structures and how to find out the static degree of the structure | 4 |
| The statically defined and undefined structures and how to find out the static degree of the structure | 5 |
| Introduction about reinforced concrete designs (the components of the concrete mixture and the plans of the iron strain stress and the used concrete. | 6 |
| Introduction about reinforced concrete designs (the components of the concrete mixture and the plans of the iron strain stress and the used concrete. | 7 |
| Analyzing the reinforced concrete lintels designs (reinforcing in the stress and pressure area) to resist the moments of deformation. | 8 |
| Analyzing the reinforced concrete lintels designs (reinforcing in the stress and pressure area) to resist the moments of deformation. | 9 |
| Analyzing the reinforced concrete lintels designs (reinforcing in the stress and pressure area) to resist the moments of deformation. | 10 |
| Analyzing the reinforced concrete lintels designs (reinforcing in the stress and pressure area) to resist the moments of deformation. | 11 |
| Designing the concrete lintels to resist sheering. | 12 |
| Designing the concrete lintels to resist sheering. | 13 |
| Designing the concrete lintels to resist sheering. | 14 |
| Introduction about concrete ceilings and their types | 15 |
| Designing concrete ceilings of loads transmitted in one direction | 16 |
| Designing concrete ceilings of loads transmitted in one direction | 17 |
| The concrete columns, its types and specifications  a- axial force drawings – deformation moments of columns  b- designing short concrete columns | 18 |
| The concrete columns, its types and specifications  a- axial force drawings – deformation moments of columns  b- designing short concrete columns | 19 |
| The concrete columns, its types and specifications  a- axial force drawings – deformation moments of columns  b- designing short concrete columns | 20 |
| A general introduction about the steel structure buildings | 21 |
| A general introduction about the steel structure buildings | 22 |
| A general introduction about the steel structure buildings | 23 |
| 1. designing and analyzing the single iron columns 2. designing the tension parts in trusses 3. designing the steel beams by the (M-R) method | 24 |
| 1. designing and analyzing the single iron columns 2. designing the tension parts in trusses 3. designing the steel beams by the (M-R) method | 25 |
| 1. designing and analyzing the single iron columns 2. designing the tension parts in trusses 3. designing the steel beams by the (M-R) method | 26 |
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| ***15. Infrastructure*** | | |
| ***Textbook***  **Ferdinand L. Singer “Engineering Mechanics”.**  **هاني محمد فهمي"تصاميم الخرسانة المسلحة *References***  **P. Papov “Strength of Material”.**  **Pasala Dayaratnam “Design of Steel Structures”**  **Nilson “Design of Concrete Structures”** | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **ARC303** | | Pre-requisites |
| / | | Minimum number of students |
| 60 | | Maximum number of students |
| Lecturer assistance: Ahmed Khudher Abdulridha  Tel: +00964-7903306716  Email: ahkhudher1978@yahoo.com | | ***17. Course Instructors*** |

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Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2016-2017

University: Baghdad

College : Engineering

Number Of Departments In The College :

Date Of Form Completion : oct. – 10 / 2016

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Dean ’s Name

Date : / 10 / 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

Signature

Quality Assurance And University Performance Manager

Date : / / 2016

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

|  |
| --- |
| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| **College of Engineering**  **University of Baghdad** | ***1. Teaching Institution*** |
| **Architectural Engineering Department**  **(AED)** | ***2. University Department/Centre*** |
| **Principles of Urban Planning** / **Code No. ARC 304**  **Third year**  The subject aims to identify the student with the developments that happened in the history of cities development and growth through the passage of time including the social, economical and technical effects which have led to the foundation of growth and change in cities starting from the ancient civilizations and ending with contemporary cities. | ***3. Course title/code & Description*** |
| **Principles of Urban Planning** | ***4. Programme(s) to which it Contributes*** |
| Annual System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face  mode. The academic year is composed of 30-week regular subjects. | ***5. Modes of Attendance offered*** |
| First and second / Year 2016 – 2017 | ***6. Semester/Year*** |
| 2 hrs. per week / 60 hours yearly. | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The subject aims to identify the student with the:  -Cross Review of towns across history  - Basic information on urban planning needs and content  - planning Cycle  - Comprehensive Plan  - Population study  - Housing  - Transportation  - Sustainability in Cities  - Pollution / water / Air / Visual / Sound | |

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| ***10·*** ***Learning Outcomes*** |
| - Learning about Historic Evolution of Cities  - Mesopotamian Cities  - Egyptian Cities  - Greek and Roman Cities  - Meso American Cities  - Mid – age and Renaissance Cities  - Content and stages of Planning Cycle  - Population Studies and projection Methods  - Housing Problems and Solutions exposure to local and international reflections |
| ***11.*** ***Teaching and Learning Methods*** |
| -Verbal and Written Lectures using data show  - Homework  - Discussions  - Presentations  - Quizzes , Tests and Exams |
| ***12. Assessment Methods***  - Quizzes  - Tests  - Final Exam |
| ***13. Grading Policy***  1. Quizzes:  - There will be a (10) closed books and notes quizzes during the year , The quizzes will count (5%) of the total grade.  2. Tests :  - There will be a ( 2-3) Nos. and will count (25%) of the total course grade.  3. Final Exam:  - The final exam will be comprehensive, closed books and  notes, The final exam will count (70%) of the total course grade |

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| ***14. Course Structure*** | | | | | |
|  | **Teaching**  **Method** | **Unit/Module or**  **Topic Title** |  | Hours | Week |
|  | **Lecture using data show** | **Introduction about course contents** |  | 2 | 1 |
|  | **Lecture using data show** | **Kinds of Planning** |  | 2 | 2 |
|  | **Lecture using data show** | **Historic Over look at City Formation** |  | 2 | 3 |
|  | **Lecture using data show** | **Mesopotamian Cities** |  | 2 | 4 |
|  | **Lecture using data show** | **Egyptian Cities** |  | 2 | 5 |
|  | **Lecture using data show** | **Greek Cities** |  | 2 | 6 |
|  | **Lecture using data show** | **Roman Cities** |  | 2 | 7 |
|  | **Lecture using data show** | **Mid – age and Renaissance Cities** |  | 2 | 8 |
|  | **Lecture using data show** | **Gothic Architecture and Industrial Revolution** |  | 2 | 9 |
|  | **Lecture using data show** | **Meso American Cities** |  | 2 | 10 |
|  | **Lecture using data show** | **Mid term Exam** |  | 2 | 11 |
|  | **Lecture using data show** | **Contemporary Cities** |  | 2 | 12 |
|  | **Lecture using data show** | **Comprehensive Plan** |  | 2 | 13 |
|  | **Lecture using data show** | **Planning Cycle** |  | 2 | 14 |
|  | **Lecture using data show** | **Second Exam** |  | 2 | 15 |
|  | **Lecture using data show** | **Utopian Cities** |  | 2 | 16 |
|  | **Lecture using data show** | **Sustainability** |  | 2 | 17 |
|  | **Lecture using data show** | **Components of Modern Cities** |  | 2 | 18 |
|  | **Lecture using data show** | **Population Studies** |  | 2 | 19 |
|  | **Lecture using data show** | **Population Projection Methods** |  | 2 | 20 |
|  | **Lecture using data show** | **Housing Problems - Field Surveys of Housing** |  | 2 | 21 |
|  | **Lecture using data show** | **Transportation in Cities** |  | 2 | 22 |
|  | **Lecture using data show** | **Services in Cities** |  | 2 | 23 |
|  | **Lecture using data show** | **Mid term Exam** |  | 2 | 24 |
|  | **Lecture using data show** | **Urban Pollution Problems - Visual Pollution** |  | 2 | 25 |
|  | **Lecture using data show** | **Proposals for City Remedies** |  | 2 | 26 |
|  | **Lecture using data show** | **Urban and Build Laws** |  | 2 | 27 |
|  | **Lecture using data show** | **New Concepts in City Planning** |  | 2 | 28 |
|  | **Lecture using data show** | **Designing Urban Village According to T.O.D , PUD , UV** |  | 2 | 29 |
|  | **Lecture using data show** | **Designing Urban Village According to NU** |  | 2 | 30 |

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| ***15. Infrastructure*** | |
| * Spreiregen, Paul D., The Architecture of Towns and Cities, McGraw- Hill Book Company, 1965. * Gallion, Arthur B., The Urban Pattern City planning and Design, Van Nostrand N.Y.1975. * Parfect, Michael and Gordan Power, Planning for Urban Quality, New York, 1997 . * Lynch, Kevin, The Image of City, M.I.T. Press Cambridge, Massachusettc, 1972   + Bacon, Edmund, N .Design of Cities, Thames and Hudson, London, 1975. * Cliff Moughtin, Urban Design, Street and Square Third Edition, Architectural Oxford, 2003.   OTHER:  - Personal lectures prepared by the professor | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER |
| * Available websites related to the subject : Planning , Urban Design , Population , Housing , Transportation and Cities . | Special requirements (include for example workshops, periodicals, IT software, websites) |
| * Data show about samples of Historic and Modern cities regarding morphology , Population , evolution , expansion . | Community-based facilities  (include for example, guest  Lectures , internship , field studies) |
| ***16. Admissions*** | |
| **Code No. ARC 304** | Pre-requisites |
| **/** | Minimum number of students |
| 70 | Maximum number of students |
| ***Instructor:***  **Prof. Talib Hameed Ali Al-Talib**  ArchitecturalEngineering Department  College of Engineering  University of Baghdad  E-mail: altalib\_ta@yahoo.com  ***Teaching Assistant:***  **Lecturer Huda Sabah Fakhrulddin**  ArchitecturalEngineering Department  College of Engineering  University of Baghdad  E- mail : h\_dream\_7 @yahoo.com | ***17. Course Instructors*** |

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Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2016-2017

Universitiy: Baghdad

College : Engineering

Number Of Departments In The College : 12 Twelve

Date Of Form Completion : oct. – 10 / 2016

# 

Dean ’s Name

Date : / 10 / 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

Signature

Quality Assurance And University Performance Manager

Date : / / 2016

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| --- |
| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department(AED) | ***2. University Department/Centre*** |
| **Lighting Servives (G.S 308)** | ***3. Course title/code & Description*** |
| B.Sc. in Architectural Engineering | ***4. Programme(s) to which it Contributes*** |
| There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to face mode. The academic year is composed of 15-week regular subjects include the main examinations . Each subject credit is one 50-minute lecture a week or 3 hours . There is no on-line subject which may be used as supplementary material for the class room instruction . | ***5. Modes of Attendance offered*** |
| 1st Academic Year 2016 – 20176 | ***6. Semester/Year*** |
| 30 hrs. / 2 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The subject aims to identify the student with the main principles of the electrical systems (the lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.) and the methods of calculating the electrical power in relation to the coverage of building requirements like lighting, air-conditioning, sanitary services, etc. The student also identifies the requirements of central electrical services and how to measure the areas required to be contained and the basics of their projection in the building. | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to define the main principles of the electrical systems (the intelligent lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.) , the basics of calculating the electrical power in relation to the requirements of different buildings , and the basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose , that able students to use the techniques, skills, and modern engineering tools and ideas necessary for engineering practice in lightings and interior design applications. |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application.  7. Seminars.  8. In- and Out-Class oral conservations.  9. Reports, Presentations, and Posters. |
| ***12. Assessment Methods*** |
| Assessment Methods depends on examinations , Quizzes and extracurricular Activities , also on Student Engagement during Lectures , and on the responses Obtained from Students. |
| ***13. Grading Policy*** |
| 1- Quizzes:  There will be a ( 6 – 8 ) closed books and notes quizzes during the academic course , the quizzes will count 12% of the total course grade.  2- Reports , this is optional and will count extra marks ( 3 % - depending on the type of activity ) for the student , and represent a bounce.  3- main Exam.:  The final exam. will be comprehensive, closed books and notes, will count (18%) of the total course grade . and will take place on December 2013 from 9:00 AM - 12:00 PM in room ( 280 ) in the architectural dept.  4- The final exam will count ( 70% ) of the total course grade. |

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| ***14. Course Structure*** | | | | | |
|  |  |  |  | Hours | Week |
|  |  |  | The main principles of the electrical systems (the lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.) | 2 theory | 1 |
|  |  |  | The main principles of the electrical systems (the lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.) | 2 theory | 2 |
|  |  |  | The main principles of the electrical systems (the lighting system, power distribution system, extinguishing system, phone system and interior recall system, etc.) | 2 theory | 3 |
|  |  |  | The basics of calculating the electrical power in relation to the requirements of different buildings | 2 theory | 4 |
|  |  |  | The basics of calculating the electrical power in relation to the requirements of different buildings | 2 theory | 5 |
|  |  |  | Central services and calculating the areas required in order to be contained | 2 theory | 6 |
|  |  |  | Central services and calculating the areas required in order to be contained | 2 theory | 7 |
|  |  |  | The basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose | 2 theory | 8 |
|  |  |  | The basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose | 2 theory | 9 |
|  |  |  | The basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose | 2 theory | 10 |
|  |  |  | The basics of designing interior lighting and the integration of the natural lighting and interior lighting and the integration with the air-conditioning system through a group of examples selected for this purpose | 2 theory | 11 |
|  |  |  | Monthly examination | 2 theory | 12 |
|  |  |  | General smart techniques that effect the skin of buildings | 2 theory | 13 |
|  |  |  | General smart techniques that effect the skin of buildings | 2 theory | 14 |
|  |  |  | Reports + disscusions | 2 theory | 15 |
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| --- | --- | --- |
| ***15. Infrastructure*** | | |
| References:-   1. "Window Performance and New Technology" - Proceedings of Building Science Insight Conference - National Research Conceal of Canada - Ontario – 1992 . 2. "Sustainable Architectures and Building Design (SABD) – sustainability Reporting Program" – NAHB Research center, Guide to developing Green Building Program, National Association of home Builders, U.S.A, 2004 . 3. Leupen, Bernard (and others), "Design and Analysis," Van Nostrand Reinhold, New York, 1997 . 4. Gissen, D., "Big & Green:" Toward Sustainable Architecture in the 21st Century, Princeton Architectural Press, New York . 2002 .   NAHB Research Center, Guide to Developing Green Building Programs, National Association of Home Builders, 1999 .   1. Ruck, Nancy, "Daylight in Buildings – The (IEA's) of Solar Heating and cooling Programme," by International Planning Association, Maryland, U.S.A. , 1998 . 2. Gordon, J.,/ J. Coppock. "Ecosystem management and economic Development," Thinking Ecologically: The Next Generation of Environmental Policy, Yale University Press, New Haven. 1997 . 3. Givoni, Baruch, "Manclimate and Architecture," Great Britian Press, 2nd edition, London, 1976 . 4. Egan, M. David, "Concepts in Architectural Lighting," Mc Graw Hill, New York, 1983 . 5. Martin, F.L. Cap, "Daylighting," Velux Grop, Velux and the Red Velux logo Press, Freance, 2005 .   Lynes, J.A., "Principles of Natural Lighting," New York, 1968 .   1. Ellinwood, Scott, "Daylight in the Design Process," AIA, Carifornia, 1985 . 2. Evans, Martin, "Housing, Climate and comfort," The Archilecture Press, London, U.K., 1980 . 3. Gland, D.R., "Lighting Design and Application," TVA Office Complex, Gatanoka, U.S.A.,-1980. 4. Halse, Albert O., "The Use of Colour in Interior," Mc Graw Hall, New York, 1968 .   **Others**  1. Notebook prepared by the instructor of the course  2. Collection of sheets of solved and unsolved problems and Exams questions | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  movies and videos.  Available websites related to the subject.   ex- reports | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| Field and scientific visits.  Extra lectures by foreign guest lecturers(if founded) | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **CE308** | | Pre-requisites |
| 48 | | Minimum number of students |
| 60 | | Maximum number of students |
| ***Instructor:***  **Dr. Amjad M. Albadry**  Lecturer of Architechtural Engineering / the environment of smart industrial buildings  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964-7901 57 19 25  Email: amarch05@yahoo.com | | ***17. Course Instructors*** |

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International Accreditation Dept.

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Universitiy: Baghdad

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Number Of Departments In The College : 12 Twelve

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Dean ’s Name

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

|  |
| --- |
| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department (AED) | ***2. University Department/Centre*** |
| **Computer Programming III (G.S 309)**  The subject starts with acquainting the students with the 3D studio program and identifying its components, zooming, browsing, choosing the element, edit tools, merging models, applications on model merging and importing and exporting models. | ***3. Course title/code & Description*** |
| Architectural Engineering (ARC) ` | ***4. Programme(s) to which it Contributes*** |
| Annual System; There is only one mode on delivery, which is a “Day Program”.  The students are full time students, and on  Campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.  .Each subject credit is one 90-120 minute lecture a week or 2 hours of lab a week. There is no on-line subject which may be used as supplementary material for the class room instruction. | ***5. Modes of Attendance offered*** |
| **2016-2017** | ***6. Semester/Year*** |
| (2) hours per. Week , (60) hours total | ***7. Number of hours tuition (total)*** |
| Oct.- 10/2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| Giving the students the capacity of creating 3d models and final presentation for their project. Teaching him the essentials of modeling the rendering environments and materials ,making the student capable of producing a final illustrated project shown each of his project and possibilities, and keeping the student in touch with the latest architectural presentation technologies | |

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| ***10·*** ***Learning Outcomes*** |
| 1)The student will be familiar with the 3ds max programme and will be capable with advanced more with its tools  2)The ability to illustrate his thoughts and concepts with more technical and modern ways  3)The ability to produce more novel concepts duo the abilities that the programme acquires  4)The ability to practice in architectural offices after graduation |
| ***11.*** ***Teaching and Learning Methods***  1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Lab. Experiments.  5. Tests and Exams.  6. In-Class Questions and Discussions.  7. Reports, Presentations, and lab projects. |
|  |
| ***12. Assessment Methods***  1. Examinations, Tests, and Quizzes.  2. Extracurricular Activities.  3. Student Engagement during Lectures.  4. Responses Obtained from Students |
| ***13. Grading Policy***  1) Course Grades total of (60%):  Paper test exams (10%)  Lab Test Exams (20%)  Lab Project & quizzes (15%)  Reports (15%)  2) Final Course Grade total of (40%)  **All above becomes a total grade of (100%)** |

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| ***14. Course Structure*** | | | | | |
|  |  | Topic | HOURS | COURSE | Week |
|  |  | Max Basic 1 | 2 | 1 | 1 |
|  |  | Max Basic 2 | 2 | 1 | 2 |
|  |  | Transforming an cloning | 2 | 1 | 3 |
|  | Lab | Array cloning | 2 | 1 | 4 |
|  |  | Edit-spline modifier 1 | 2 | 1 | 5 |
|  | Lab | Edit-spline modifier 2 | 2 | 1 | 6 |
|  | Lab | Edit-spline modifier test | 2 | 1 | 7 |
|  |  | Edit-mesh modifier 1 | 2 | 1 | 8 |
|  | Lab | Edit-mesh modifier 2 | 2 | 1 | 9 |
|  | Lab | Edit-mesh modifier test | 2 | 1 | 10 |
|  |  | Compound objects 1 | 2 | 1 | 11 |
|  | Lab | Compound objects 2 | 2 | 1 | 12 |
|  |  | Course Paper exam | 2 | 1 | 13 |
|  | Lab | Course Lab exam | 2 | 1 | 14 |
|  |  | Reviewing Course | 2 | 1 | 15 |
|  |  | Material editor 1 | 2 | 2 | 16 |
|  | Lab | Material editor 2 | 2 | 2 | 17 |
|  | Lab | Lab Practice | 2 | 2 | 18 |
|  |  | Report Discussion 1 | 2 | 2 | 19 |
|  |  | Report Discussion 2 | 2 | 2 | 20 |
|  |  | Lighting & Cameras 1 | 2 | 2 | 21 |
|  | Lab | Lighting & Cameras 2 | 2 | 2 | 22 |
|  |  | Merging objects 1 | 2 | 2 | 23 |
|  |  | Merging objects 2 | 2 | 2 | 24 |
|  |  | Importing Cad to max | 2 | 2 | 25 |
|  | Lab | Importing test | 2 | 2 | 26 |
|  | Lab | Final project practice 1 | 2 | 2 | 27 |
|  | Lab | Final project practice 1 | 2 | 2 | 28 |
|  |  | Final course test | 2 | 2 | 29 |
|  |  | Reviewing Course | 2 | 2 | 30 |

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| ***15. Infrastructure*** | | |
| ***Official Autodesk training guide- Learning Autodesk 3ds Max 2008-***Linicar House, Jordan Hill, Oxford OX2 8DP, Copyright (c) 2008, Elsevier Inc.  ***3ds Max 2011Bible***- Kelly L. Murdock, Wiley Publishing Inc. | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| 1- Laboratory practice in the department.  2-Available websites related to the subject.  3- Extracurricular activities | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| ----- | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| G.S 309 | | Pre-requisites |
| --- | | Minimum number of students |
| 49 students | | Maximum number of students |
| ***Instructor:***  **Assistant Lecturer. Hisham A. Husain**  M.Sc. in Architectural Engineering  theory of architecture  Arc. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964-7901151979  Email:  [hishamarch304@yahoo.com](mailto:hishamarch304@yahoo.com)  ***Teaching Assistant:***  **Assistant Lecturer. Haala Shamsi Mohammed**  Arc. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964-7901186244  Email: | | ***17. Course Instructors*** |

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

|  |  |
| --- | --- |
| College of Engineering/University of Baghdad | ***1. Teaching Institution*** |
| Architecture Engineering Department | ***2. University Department/Centre*** |
| Conservation on Architectural Heritages | ***3. Course title/code & Description*** |
| none | ***4. Programme(s) to which it Contributes*** |
|  | ***5. Modes of Attendance offered*** |
| Semester | ***6. Semester/Year*** |
| Two hours Weekly | ***7. Number of hours tuition (total)*** |
|  | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course***  Identify the student with an important and vital subject which is the subject of the conservation of the architectural tradition. This subject is a scientific field specialized in dealing with the aspects of protecting, conserving and rehabilitating the buildings and sites that have archeological historical distinguished value | |
| Knowing what is meaning of conservation, with recognizing among technique, methods, and levels. Also trying to become able to digenesis which building deserves to conserve, therefore with any way, and level. Reaching at end of course to decide how we can invest this building. | |

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| ***14. Course Structure*** | | | | | |
|  |  |  |  |  | Week |
|  |  | What is conservation | 1/10/2013 |  | 1 |
|  |  | Conservation technique and policies | 8/10/2013 |  | 2 |
|  |  | How to choose building for conservation | 15/10/2013 |  | 3 |
|  |  | Review on Baghdad history | 22/10/2013 |  | 4 |
|  |  | Reasons of fall in building | 29/10/2013 |  | 5 |
|  |  | Architectural conservation and urban conservation | 5/11/2013 |  | 6 |
|  |  | International experience in this field | 12/11/2013 |  | 7 |
|  |  | Exam | 19/11/2013 |  | 8 |
|  |  | Historical building in Iraq | 26/11/2013 |  | 9 |
|  |  | Heritage building in Iraq | 3/12/2013 |  | 10 |
|  |  | Conservation importance and related to economy | 10/12/2013 |  | 11 |
|  |  | Investment in conservation field | 17/12/2013 |  | 12 |
|  |  | Architectural Conservations examples | 24/12/2013 |  | 13 |
|  |  | Urban Conservations examples | 31/12/2013 |  | 14 |
|  |  | Exam | 7/1/2014 |  | 15 |

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| **Week** | **Subject** |
| 1st week | Conserving the architectural tradition – basic definitions , the conservation aims , the evolution and development of the concept |
| 2nd week | The reasons and sources of damage and loss in the architectural and urban tradition |
| 3rd week | The limits of conserving the architectural traditions: the standards of selecting buildings, the efficiency of use, economical usefulness, the legislative financial administrative planning and social limits |
| 4th week | The preparatory steps for conservation works: inventory, documentation, registration, the physical and historical studies |
| 5th + 6th week | The treatments and standards of behaviorism: treatment requirements, choosing the treatment method, treatment levels, protection after treatment |
| 7th week | Term examination |
| 8th week | Rehabilitation and the employment of the historical building: rehabilitation standards, selecting the urban function, the standard of assessing the efficiency of use |
| 9th week | The role of rehabilitation in the improvement of the urban environment – local and international examples |
| 10th week | The Arab experience in the architectural conservation: applications and problems |
| 11th week | The international experience in the architectural conservation: exhibiting distinguishable models |
| 12th week | The local experience in conservation: the history of the experience, the related parties involved in the subject, the fundamental dimensions of the experience, the experiences of conserving the historical centers in Iraq |
| 13th week | Experiences of conserving the historical centers in Baghdad: Al-Khadimmiya experience , Bab Al-Sheik , the old Risafa |
| 14th +15th week | Experiences of conserving the historical centers in Baghdad |

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| ***15. Infrastructure*** | | |
|  | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
|  | | Minimum number of students |
|  | | Maximum number of students |
| Shatha Abbas Hassan  [shatha\_aamiri@yahoo.com](mailto:shatha_aamiri@yahoo.com) | | ***17. Course Instructors*** |

Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2016-2017

Universitiy: Baghdad

College : Engineering

Number Of Departments In The College : 12 Twelve

Date Of Form Completion : oct. – 10 / 2016

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Dean ’s Name

Date : / 10 / 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

Signature

Quality Assurance And University Performance Manager

Date : / / 2016

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department(ARCH) | ***2. University Department/Centre*** |
| **Architectural Design / ARS401**  The curriculum of the architectural design of the fourth year aims to enlarge the architectural student's recognitions and to depart from the thinking of a single building of a limited function to the general outline of the city and, thus, the student identifies how to relate the single project with the city urban fabric through the identification of the basics of dealing with the urban design and connecting it to the city urban fabric and the stretching of the visual and physical axes found in them and the impact of the urban fabric characteristics of the specified area of the designing projects. This is done through a group of designing projects, which are graded in goals and size, classified into three basic projects, two of which are specified for the first term and a single project with a planning-housing urban scale specified for the second term an addition to a group of quick tests.  The basic project of the first term is a project that contains several divisions which are subjected to a unified central system such as a hospital project or an academic complex or a multi-products industrial complex and the like. Thus, the student identifies the basic principles of planning of such projects and how to relate them with a group of the different engineering service systems and particularly the central air-conditioning and sanitary and electrical systems in order to reach an environmental integration and taking into consideration the requirements of the future expansion and their designing decisions.  The second term is specified to make the student identifies the concepts and basic principles concerning the main plan of a residential complex in addition to the identification of the housing problem in detail in the country and trying to reach some practical solutions to the housing shortage problem through designing a housing project with complete services represented by a housing quarter (capacity of 2400 person) in order to make the student identifies all the requirements of housing and infrastructure services. The design project is divided into two stages each of which represents a complete stage. The first stage is specified to team work while the second stage focuses on part of the project for each student of the first stage team.  **The first designing project / the 1st week to the 6th week**  The first designing subject aims to let the student acquires the experience of dealing with the single multistory and multi-functions building, with the existence of variation in the size of spaces, i.e., including small middle and large spaces, with a group of single activities and by using the infill method through designing a trade building in Cellular (infill) in a complete urban fabric. The project includes a group of commercial shops (marketing activities) to identify the activity of shopping in the city and how this activity is bond with the city movement (concerning the urban fabric of high population density) and gathering it with other middle size activities – a bank branch or halls for occasions, etc, in addition to the existence of a mass multistory building of a group of commercial apartments according to their specification of the city where the student identifies how to deal with the instructions of Baghdad municipality concerning the urban fabric as a distinguished landmark in the region  **The second designing project / the 7th week until the end of the first term**  The second project aims to identify the student with a bigger problem where he deals with a project consisting of a group of parts which have repeated complex and functional characteristics at the same time. It is a compound typical project which is either a healthcare (for example a hospital) or educational or academic project; a college or university or part of it. Hence, the student deals with the project in two parts: the first stage consists of a basic plan of the main components (the main departments) and how to design the masses space. The program aims to identify the student with the importance of complete design of the space mass where the space represents the basic and organized part of the basic mass and the components of the project and dealing with the basic plan as part of the city structure and relating it with the urban fabric of the city and interacting with the project's special area limitations. Then the student moves to the design of plans of the departments and their functions. The project contains a group of small-size administrative spaces and a group of middle-size spaces like the hospital departments in a clear typical repetition and a group of large-size spaces like (studying halls) in addition to the basic services and a big hall where he deals with different span structural skeletons ranging from small, middle, large and very large and taking into concentration the services and joints, etc., with the complete study of their service systems. | ***3. Course title/code & Description*** |
| Architectural Engineering(ARCH) | ***4. Programme(s) to which it Contributes*** |
| Annual System : The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects. Students have lectures, home work and class work . | ***5. Modes of Attendance offered*** |
| 1st & 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 360 hours / 2x6 hours per week | ***7. Number of hours tuition (total)*** |
| /10/2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| \_Increase and develope students ability in planning and designing.  \_Enhance students knewlege and practice in urban and architectural principles. | |

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| ***10·*** ***Learning Outcomes*** |
| \_Ability to make functional programme for big urban projects.  \_Ability to treat with urban cotest .  \_Ability to recognize multi functional projects. |
| ***11.*** ***Teaching and Learning Methods*** |
| -Lectures  -Homwork  -Class work  -Seminars  -Day sketches |
| ***12. Assessment Methods*** |
| \_Home work evaluation  \_Class work evaluation  -Day sketches evaluation  ***13. Grading Policy***     * 70% of the total course grade goes to home works and class works of the three main projects of the course. * 30% of the total course grade gose to day sketches doen in class. |

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| ***14. Course Structure*** | | | | | |
| Assessment method | Teaching method | Project title | Project no. | hour | Week |
| -class work evaluation | -hom work  -class work  -seminar | Multistory car parking | 1 | 2x6 | 1 |
| -home work evaluation | -hom work  -class work  -seminar | Multistory car parking | 1 | 2x6 | 2 |
| -day sketches evaluation | -hom work  -class work  -seminar | Multistory car parking | 1 | 2x6 | 3 |
| -class work evaluation | -hom work  -class work  -seminar | Multistory car parking | 1 | 2x6 | 4 |
| -class work evaluation | -hom work  -class work  -seminar | Multistory car parking | 1 | 2x6 | 5 |
| -home work evaluation | -hom work  -class work  -seminar | Multistory car parking | 1 | 2x6 | 6 |
| -class work evaluation | -hom work  -class work  -seminar | hospital | 2 | 2x6 | 7 |
| -class work evaluation | -hom work  -class work  -seminar | hospital | 2 | 2x6 | 8 |
| -home work evaluation | -hom work  -class work  -seminar | hospital | 2 | 2x6 | 9 |
| -day sketches evaluation | -hom work  -class work  -seminar | hospital | 2 | 2x6 | 10 |
| -class work evaluation | -hom work  -class work  -seminar | hospital | 2 | 2x6 | 11 |
| -class work evaluation | -hom work  -class work  -seminar | hospital | 2 | 2x6 | 12 |
| -home work evaluation | -hom work  -class work  -seminar | hospital | 2 | 2x6 | 13 |
| -class work evaluation | -hom work  -class work  -seminar | hospital | 2 | 2x6 | 14 |
| -home work evaluation | -home work  -class work  -seminar | hospital | 2 | 2x6 | 15 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 16 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 17 |
| -day sketches evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 18 |
| home work evaluation |  | Housing project | 3 | 2x6 | 19 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 20 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 21 |
| home work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 22 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 23 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 24 |
| -day sketches evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 25 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 26 |
| home work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 27 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 28 |
| -class work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 29 |
| home work evaluation | -home work  -class work  -seminar | Housing project | 3 | 2x6 | 30 |

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| ***15. Infrastructure*** | | |
| -Time saver  -Neufert | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
| 0 | | Minimum number of students |
| 50 | | Maximum number of students |
| Dr.kadhim faris Al-essawi  Department of architectural engineering  College of Engineering  University of Baghdad  Tel : 00964\_770924228  E.mail: kadhim\_essawi@yahoo.com | | ***17. Course Instructors*** |

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| --- |
| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | College of Engineering/University of Baghdad | ***1. Teaching Institution*** | | Architecture Engineering Department | ***2. University Department/Centre*** | | Design of Interior spaces | ***3. Course title/code & Description*** | | Four of master holding degree | ***4. Programme(s) to which it Contributes*** | |  | ***5. Modes of Attendance offered*** | | Semester | ***6. Semester/Year*** | | five hours Weekly, Two theoretical, and three practical | ***7. Number of hours tuition (total)*** | |  | ***8. Date of production/revision of this specification*** | | ***9. Aims of the Course*** The aim is to identify the students with the most specialized aspects involved in interior design from those aspects in architectural design in general. This is done on two parts:  The theoretical part: the intellectual, cultural and artistic trends are taught especially those overlapping with the industrial design, craftsmen production, materials and those trends that overlap with the artistic intellect of ornamenting, services and light systems, pieces of furniture.  The practical part: the term includes two projects: one of them lasts for four-five weeks and aims to enlarge the students' imagination and creativeness at the intellectual levels and using the basic interior design elements in shape, color, light and furniture. | | | Knowledge of Interior spares in architecture and its main and second Elements and it's his topical styles and how to design it | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | ***14. Course Structure*** | | | | | | |  |  |  |  |  | Week | |  |  | Introduction of I.D | 1/10/2013 |  | 1 | |  |  | Definition of Interior space. | 8/10/2013 |  | 2 | |  |  |  | 15/10/2013 |  | 3 | |  |  | Elements of Interior space. | 22/10/2013 |  | 4 | |  |  | Systems of Interior space. | 29/10/2013 |  | 5 | |  |  | Interior space in me sop ataimaian Architectural.. | 5/11/2013 |  | 6 | |  |  | Interior space after end of Babylon civil 2ataen. | 12/11/2013 |  | 7 | |  |  | Interior space in Grouch Arch and bisection Arch. | 19/11/2013 |  | 8 | |  |  | Interior space in Gothic and Renascence Arch. | 26/11/2013 |  | 9 | |  |  | Interior space in Islamic Arch . | 3/12/2013 |  | 10 | |  |  | Interior space in modern Arch. | 10/12/2013 |  | 11 | |  |  | Interior space in postmodern Arch. | 17/12/2013 |  | 12 | |  |  | Interior space in Coutem priory movement Arch. | 24/12/2013 |  | 13 | |  |  | How to design public spouse. | 31/12/2013 |  | 14 | |  |  | How to design public spouse | 7/1/2014 |  | 15 |   **The theoretical part**  In the first level, the intellectual, cultural and artistic trends are taught especially those overlapping with the industrial design, craftsmen production, materials and those trends that overlap with the artistic intellect of ornamenting, services and light systems, pieces of furniture. It also includes a general historical presentation and a detailed presentation of the developments of these thoughts and trends during the twentieth century concerning the conclusion of the different attitudes of the contemporary interior design thoughts and explaining what they mean in away that guarantees the student's understanding of the different circumstances that have led to evolution of these thoughts in their places in order to reach the ability to recognize what thoughts can be benefited from in the designs presented by the students and in accordance with the peculiarity of the Iraqi community and the special environmental and territorial conditions and far away from the strange ideas or presentations which are socially, environmentally and culturally inappropriate.  The second level is being put forward according to man's perception and acceptance of the interior surrounding space, the human variables at the individual and different communities' level in the perceptional and appreciative values in understanding and using the spaces and their functional standards and studying the characteristics of spaces' sequences and moving among them and their abstract and symbolic influences on man.  **The practical part**  The term includes two projects: one of them lasts for four-five weeks and aims to enlarge the students' imagination and creativeness at the intellectual levels and using the basic interior design elements in shape, color, light, furniture and their role in the concentration on the real aspects. The second project lasts for two months and it adopts a real and local framework of a special characteristic in thought and the real executive application of real spaces and is put forward as a design problem in all its functional and executive levels in addition to the intellectual, abstract and philosophical levels and the style of expressing the nature and specialty of the Iraqi community.  Between the two projects, there is q quick practical design test. During the theoretical part the student has a term examination in addition to the final examination. The students may be given other tasks (un programmed) to complete the subject's requirement.  ***15. Infrastructure*** | | |
|  | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
|  | | Minimum number of students |
|  | | Maximum number of students |
| Shatha Abbas Hassan  [shatha\_aamiri@yahoo.com](mailto:shatha_aamiri@yahoo.com) | | ***17. Course Instructors*** |

Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2016-2017

Universitiy: Baghdad

College : Engineering

Number Of Departments In The College : 12 Twelve

Date Of Form Completion : oct. – 10 / 2017

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Dean ’s Name

Date : / 10/ 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

Signature

Quality Assurance And University Performance Manager

Date : / / 2016

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

|  |
| --- |
| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

|  |  |
| --- | --- |
| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| **Department of Architecture** | ***2. University Department/Centre*** |
| **Landscape Design - Code No. ARC403**  The subject deals with the bases and principles that must be considered when selecting the location and projecting the building within it and treating the location problems, investing its characteristics and basics to serve the complete scene. It also deals with the requirements of the natural and constructional treatment which complement the landscape The subject consists of two parts: a theoretical and a practical. In the practical part, the student prepares the detailed designs of one of the productive exterior spaces. One of the other requirements is that the student submits a report in one of the related subjects and which is previously specified by the subject professor. The distinguished projects are selected in order to be exhibited to the other students in a lecture of discussion form and by the participation of other student. | ***3. Course title/code & Description*** |
| **Architecture** | ***4. Programme(s) to which it Contributes*** |
| the landscape The subject consists of two parts: a theoretical and a practical. In the practical part, the student prepares the detailed designs of one of the productive exterior spaces. One of the other requirements is that the student submits a report in one of the related subjects and which is previously specified by the subject professor. The distinguished projects are selected in order to be exhibited to the other students in a lecture of discussion form and by the participation of other student | ***5. Modes of Attendance offered*** |
| 1st semester , Academic year 2016-2017 | ***6. Semester/Year*** |
| 125 hours /5 hours per week | ***7. Number of hours tuition (total)*** |
| Oct. - 10/ 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The aim of this subject is the identification of the basic principles of designing the exterior spaces or what could be called the landscape and its integration with the building and the general city scene. The subject deals with the bases and principles that must be considered when selecting the location and projecting the building within it and treating the location problems, investing its characteristics and basics to serve the complete scene. | |

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| ***10·*** ***Learning Outcomes*** |
| * Introduce the identification of the basic principles of designing the exterior spaces or what could be called the landscape and its integration with the building and the general city scene * Introduce the bases and principles that must be considered when selecting the location and projecting the building within it and treating the location problems, investing its characteristics and basics to serve the complete scene * Introduce the requirements of the natural and constructional treatment which complement the landscape. The subject includes a study of the development of the gardens through history with the concentration on the spatiotemporal aspects concerning the intellect of designing gardens and presenting them.   Have the knowledge of different methodologies of architectural design and different schools thoughts.   * Be able to analyze different design approaches and architectural projects * Be able to see architectural design within the urban context, and get knowledge of links between urban design and architectural design * Have the knowledge of types, styles and approaches of contemporary architectural design * Finally the student will be able to apply, strategies, methods or ways, or chosen theories in his/her own final design project, or his work in future. |
| ***11.*** ***Teaching and Learning Methods*** |
| 1 Lectures, power point presentations, Videos.  2 Tutorials.  3 Field trips.  4 Field studies, as individuals and group wok.  5 Homework and assignments.  6 Tests and exams.  7 In Class questions and discussions.  8 Seminars and presentations by students.  9 Papers and reports.  10 lectures by visiting lecturers.  the practical part, the student prepares the detailed designs of one of the productive exterior spaces. One of the other requirements is that the student submits a report in one of the related subjects and which is previously specified by the subject professor. The distinguished projects are selected in order to be exhibited to the other students in a lecture of discussion form and by the participation of other student. |
| ***12. Assessment Methods***  1 Examinations, tests and quizzes  2 Oral discussions.  3 Extracurricular activities.  4 evaluations of papers and reports.  5 evaluations of presentations by students |
| ***13. Grading Policy***  1 Quizzes, 2-3 closed boo quizzes during the course.  2 Tests, 1-2 tests closed or open book tests.  3 Homework and Assignment ,every week sassignments to be presented as sheets  4 Main field ( case study ) as group work , to be presented in seminars.  5 Final exam, Final exam is comprehensive, closed or open book, and took  Place in January 2014 , from 9AM till 12PM , final exam counts 70%of the  Total course grade |

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| ***14. Course Structure*** | | | | | |
| **Practical** | Hours | **Theoretical** |  | Hours | Week |
| The project | 3 | Introductory lecture / explaining the nature of the lesson and its basics / sources , reports, the basic principles of design : the site and its fundamentals, building the concept and dealing with it |  | 2 | 1 |
| The design project , presentation and site visit | 3 | Using water in the landscape |  | 2 | 2 |
| Studies stage: preliminary presentation…general presentation | 3 | Plants in the landscape |  | 2 | 3 |
| Studies…. Final presentation…general criticism | 3 | Plants and rocks… |  | 2 | 4 |
| Analyzing the site…. general criticism | 3 | The constructional components in the landscape |  | 2 | 5 |
|  |  | Examination No. 1 Day Sketch |  | 5 | 6 |
| The preliminary idea presentation, general criticism | 3 | The historical gardens:: ancient times |  | 2 | 7 |
| Developing the preliminary concept / presenting the reports | 3 | The gardens of the Italian renaissance + showing a film |  | 2 | 8 |
| 1st preliminary presentation | 3 | The gardens of the French and British renaissance |  | 2 | 9 |
| Criticizing and developing ideas | 3 | The Japanese and Chinese gardens + a film |  | 2 | 10 |
| 2nd preliminary presentation | 3 | The Islamic gardens |  | 2 | 11 |
| Individual criticism and development | 5 | The Islamic gardens… continued |  | 2 | 12 |
| Pre-final presentation | 3 | Seminars of the selected reports |  | 2 | 13 |
|  |  | Seminars…. Continued |  | 5 | 14 |
|  |  | The final presentation in accordance with the table of the presentations approved by the department council |  | 5 | 15 |
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| ***15. Infrastructure*** | | |
| Articles , texts from books, texts prepared by professors, no certain text book in required. | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| Available website related to subject  Team work in field case study. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| Site visits and lectures by visiting lecturers and scholars | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
|  | | Minimum number of students |
| 25 per section | | Maximum number of students |
| Lecturer-sajida kadum  E-mail:sajeda.kathum@yahoo.com | | ***17. Course Instructors*** |

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Republic of Iraq

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Academic Program Specification Form For The Academic Year 2016-2017

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Dean ’s Name

Date : / 10 / 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

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The College Quality Assurance And University Performance Manager

Date : / / 2016

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Quality Assurance And University Performance Manager

Date : / / 2016

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| **Department of Architecture** | ***2. University Department/Centre*** |
| **ARC 405 Housing Planning:**  The subject deals with general information about housing as an important part of city planning. It starts by analyzing the house, then, the housing demography. Later, it tackles the residential complexes and how to organize these complexes, compositions, movement and the principle of the neighborhood unity. The subject deals with general information about housing as an important part of city planning. It starts by analyzing the house, then, the housing demography. Later, it tackles the residential complexes and how to organize these complexes, compositions, movement and the principle of the neighborhood unity: its meaning, its standards and its public services. | ***3. Course title/code & Description*** |
| **Architecture** | ***4. Programme(s) to which it Contributes*** |
| Course system, There is only one mode of conveying knowledge, which is a (day Program), students are full time students, in campus they attend full day program in face – to – face mode. The course is composed of 15 weeks regular lectures | ***5. Modes of Attendance offered*** |
| 1st semester , Academic year 2016-2017 | ***6. Semester/Year*** |
| 30 hours / 2 hours per week | ***7. Number of hours tuition (total)*** |
| Oct. 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| * The subject deals with general information about housing as an important part of city planning. It starts by analyzing the house, then, the housing demography. Later, it tackles the residential complexes and how to organize these complexes, compositions, movement and the principle of the neighborhood unity: its meaning, its standards and its public services   + Provide the knowledge of the methodologies of architectural design, and their strategies.   + Provide the knowledge of influences of technology on design, influences of cultural aspects on design.   + Provide the knowledge of structural, and post structural theories of design. * Provide the knowledge of the progress of digital field in design, aiding design and presenting design | |

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| ***10·*** ***Learning Outcomes*** |
| Have the knowledge of the comprehensive scope of architectural design.  **B** Have the knowledge of theories related to architectural design, psychology, anthropology, sociology, and other human sciences.  **C**  Have the knowledge of traditional design and current design act  **D** Have the knowledge of different methodologies of architectural design and different schools thoughts.  **E** Be able to analyze different design approaches and architectural projects.  **F** Be able to see architectural design within the urban context, and get knowledge of links between urban design and architectural design.  **G** Have the knowledge of types, styles and approaches of contemporary architectural design in Iraq.  **H** Have the knowledge of influence of digital technology on design, its programs and potentials.  **I** Finally the student will be able to apply, strategies, methods or ways, or chosen theories in his/her own final design project, or his work in future |
| ***11.*** ***Teaching and Learning Methods*** |
| 1 Lectures, power point presentations, Videos.  2 Tutorials.  3 Field trips.  4 Field studies, as individuals and group wok.  5 Homework and assignments.  6 Tests and exams.  7 In Class questions and discussions.  8 Seminars and presentations by students.  9 Papers and reports.  10 lectures by visiting lecturers |
| ***12. Assessment Methods***  1 Examinations, tests and quizzes  2 Oral discussions.  3 Extracurricular activities.  4 evaluations of papers and reports.  5 evaluations of presentations by students |
| ***13. Grading Policy***  1 Quizzes, 2-3 closed boo quizzes during the course.  2 Tests, 1-2 tests closed or open book tests.  3 Homework and Assignments, 2-3 assignments to be presented as papers.  4 Main field ( case study ) as group work , to be presented in seminars.  5 Final exam, Final exam is comprehensive, closed or open book, and took  Place in January 2014 , from 9AM till 12PM , final exam counts 70%of the  Total course grade. |

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| ***14. Course Structure*** | | | | | |
| Assessment methods | Teaching methods | Unit Module or topic title | Lo 10s article | Hours | Week |
| 1-5 | 1-10 | General definitions | A-I | 2 | 1 |
| 1-5 | 1-10 | Analyzing the house | A-I | 2 | 2 |
| 1-5 | 1-10 | The constructional density and ground coverage ratios | A-I | 2 | 3 |
| 1-5 | 1-10 | Thehousing demography | A-I | 2 | 4 |
| 1-5 | 1-10 | The residential complex | A-I | 2 | 5 |
| 1-5 | 1-10 | Filed visit to a residential complex | A-I | 2 | 6 |
| 1-5 | 1-10 | Standards of housing units | A-I | 2 | 7 |
| 1-5 | 1-10 | The concepts of neighborhood unity | A-I | 2 | 8 |
| 1-5 | 1-10 | Standards of public services | A-I | 2 | 9 |
| 1-5 | 1-10 | The residential pattern | A-I | 2 | 10 |
| 1-5 | 1-10 | Reports and discussions about the concepts of residential complexes | A-I | 2 | 11 |
| 1-5 | 1-10 | quizzes | A-I | 2 | 12 |
| 1-5 | 1-10 | evaluations of papers and reports | A-I | 2 | 13 |
| 1-5 | 1-10 | evaluations of papers and reports | A-I | 2 | 14 |
| 1-5 | 1-10 | Examinations, tests | A-I | 2 | 15 |
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| ***15. Infrastructure*** | | |
| Articles , texts from books, texts prepared by professors, no certain text book in required. | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| Available website related to subject  Team work in field case study. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| Site visits and lectures by visiting lecturers and scholars | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
|  | | Minimum number of students |
| 42 per section | | Maximum number of students |
| LECTURER- SAJIDA KADUM  E-mail: sajeda.kathum@yahoo.com | | ***17. Course Instructors*** |

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Republic of Iraq

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Supervision and Scientific Evaluation Directorate

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Date : / 10/ 2016

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Dean ’s Assistant For Scientific Affairs

Date : / / 2016

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The College Quality Assurance And University Performance Manager

Date : / / 2016

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| --- |
| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Departement (AED) | ***2. University Department/Centre*** |
| **Housing - Code No. ARC406** | ***3. Course title/code & Description*** |
| Architectural Engineering (ARC) | ***4. Programme(s) to which it Contributes*** |
| Semester System ; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 15-week regular subjects. | ***5. Modes of Attendance offered*** |
| 2nd semester / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 60hrs. / 2 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Cours*** The subject of housing, in its second academic term, is considered complementary to the subject of housing planning in the first academic term. The student is identified with the principles of housing in general and its different types like single family housing and multi-family housing and the influential planning and designing variables in each one of them.Similarly, the student identifies the basics of high density housing design through the concepts of territoriality, privacy and the general and particular concept concerning the boarders of the single residential complex.The student also identifies some housing standards and limitations that are related to the final design decisions of the residential building like the limitations of vertical circulation and immediate evacuation and the limitations of fire and some of the specialties of living in dry hot areas. ***e*** | |
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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to:  \_distinguish between planning and designing concept in housing.  \_ distinguish between standard,indicator,specification and code.  \_increase knowledge in economical and social aspects of housing.  \_develope his theorical background that help him to treat with housing projects. |
| ***11.*** ***Teaching and Learning Methods*** |
| \_Lectures  \_ Homework and Assignments.  \_ Tests and Exams.  \_ In-Class Questions and Discussions.  \_ Seminars. |
| ***12. Assessment Methods***  ***Examinations, Tests, and Quizzes.***  ***\_***  ***. Student Engagement during Lectures*** |
| ***13. Grading Policy***    1. Quizzes: - There will be a ( 2 –4) closed books and notes quizzes during the semester. The quizzes will count 5% of the total course grade.  2. Tests, 1-2Nos. and will count 25% of the total course grade.  3.The final exam will count 70% of the total course grade |

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| ***14. Course Structure*** | | | | | |
| Assessment Method | Teaching Method | Unit/Module or Topic Title |  | Hours | Week |
|  | lecturer | Defining the living place, housing, the concept of single family and multi-families housing |  | 2 | 1 |
|  | lecturer | Defining the house and the abstract concept of house |  | 2 | 2 |
|  | lecturer | The development of horizontal and vertical housing and with models of the local environment horizontal/vertical |  | 2 | 3 |
| Quizze | Lecturer & Test | The vertical and horizontal residential (formal) patterns |  | 2 | 4 |
|  | lecturer | Population density – definitions, connections, effects |  | 2 | 5 |
|  | lecturer | The family in housing planning |  | 2 | 6 |
|  | lecturer | The territoriality concepts in residence |  | 2 | 7 |
| Exam |  | Exam |  | 2 | 8 |
|  | lecturer | Privacy and the concept of protected space (the special and general in single family and multi-families housing |  | 2 | 9 |
|  | lecturer | The philosophical concept of the house (directions, connections, extensions and their relation with the urban space in the house) |  | 2 | 10 |
|  | lecturer | Place in the house, the entrance, boarders and their relation with privacy and the protected space and the special and general progression, identity and character |  | 2 | 11 |
| Quizze | Lecturer & Test | The residential districts, their graduation and divisions |  | 2 | 12 |
|  | Lecturer | The housing standard and some high density housing limitations in the concepts of the vertical circulation and emergency evacuation and fire limitations and some housing specialties Lecturer & in dry hot |  | 2 | 13 |
|  | Lecturer | The housing standard and some high density housing limitations in the concepts of the vertical circulation and emergency evacuation and fire limitations and some housing specialties in dry hot |  | 2 | 14 |
|  |  | Seminar |  | 2 | 15 |

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| ***15. Infrastructure*** | | |
| References:  \_Morris (Society , Family and Housing )  \_ Polservice (Housing Standards and Codes of Practice ) | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
| / | | Minimum number of students |
| 50 | | Maximum number of students |
| Dr.kadhim faris Al-essawi  Department of architectural engineering  College of Engineering  University of Baghdad  Tel : 00964\_770924228  E.mail: kadhim\_essawi@yahoo.com | | ***17. Course Instructors*** |

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Republic of Iraq

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Academic Program Specification Form For The Academic Year 2016-2017

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| --- | --- |
| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department (AED) | ***2. University Department/Centre*** |
| **Theories of Architecture (Arc 407)**  The subject aims to discuss and study the development of architecture in its two parts, the theoretical and practical, after the industrial revolution and the French revolution on the bases of the influences like engineering, planning, scientific and technological development of construction and raw materials, the development of economics, the huge changes in the social hierarchy, the great developments of plastic and applied arts in addition to the great development of the influence of the theoretical construction as a background for the architectural producer | ***3. Course title/code & Description*** |
| Architectural Engineering (ARC) ` | ***4. Programme(s) to which it Contributes*** |
| Annual System; There is only one mode on delivery, which is a “Day Program”.  The students are full time students, and on  Campus. They attend full day program in face-to-face mode. The academic year is composed of 30-week regular subjects.  .Each subject credit is one 90-120 minute lecture a week. | ***5. Modes of Attendance offered*** |
| **2015-2016** | ***6. Semester/Year*** |
| (2) hours per. Week , (60) hours total | ***7. Number of hours tuition (total)*** |
| Oct. 10 /2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| * Teach the main western architectural movements in the late 19th and 20th century till the folding movement. * Analyze the thesis of great architects pioneers like le Corbusier and Robert Ventury for example * Study the main landmark architectural buildings that resemble the thoughts of the movements related to. | |

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| ***10·*** ***Learning Outcomes*** |
| After the end of the year the student will be able to:   * Have a good knowledge of the main architectural movements and theories in the 19th and 20th century. * The ability to analyze projects and concepts of different buildings * Have the knowledge to understand the impact of architectural movements on other fields and the growth of societies |
| ***11.*** ***Teaching and Learning Methods***  1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Reports, Presentations |
|  |
| ***12. Assessment Methods***  1. Examinations, Tests, and Quizzes.  2. Student Engagement during Lectures.  3. Responses Obtained from Students |
| ***13. Grading Policy***  1) Course Grades total of (30%):  Paper test exams 1 (12%)  Paper test exams 2 (12%)  Reports & quizzes (6%)    2) Final Course Grade total of (70%)  **All above becomes a total grade of (100%)** |

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| ***14. Course Structure*** | | | | | |
|  |  | Topic | HOURS | COURSE | Week |
|  |  | introduction | 2 | 1 | 1 |
|  |  | 19th century movements 1 | 2 | 1 | 2 |
|  |  | 19th century movements 2 | 2 | 1 | 3 |
|  |  | 19th century movements 3 | 2 | 1 | 4 |
|  |  | 19th century movements 4 | 2 | 1 | 5 |
|  |  | quiz test | 2 | 1 | 6 |
|  |  | 20th century introduction | 2 | 1 | 7 |
|  |  | The modern movement 1 | 2 | 1 | 8 |
|  |  | The modern movement 2 | 2 | 1 | 9 |
|  |  | The modern movement 3 | 2 | 1 | 10 |
|  |  | The late modern movement | 2 | 1 | 11 |
|  |  | Course exam 1 | 2 | 1 | 12 |
|  |  | discus reports 1 | 2 | 1 | 13 |
|  |  | discus reports 2 | 2 | 1 | 14 |
|  |  | Review course | 2 | 1 | 15 |
|  |  | introduction | 2 | 2 | 16 |
|  |  | late 20th century introduction | 2 | 2 | 17 |
|  |  | Postmodern movement 1 | 2 | 2 | 18 |
|  |  | Postmodern movement 1 | 2 | 2 | 19 |
|  |  | Postmodern movement 1 | 2 | 2 | 20 |
|  |  | Postmodern movement  trends 2 | 2 | 2 | 21 |
|  |  | Postmodern movement  trends 1 | 2 | 2 | 22 |
|  |  | Course exam 2 | 2 | 2 | 23 |
|  |  | discus reports 1 | 2 | 2 | 24 |
|  |  | discus reports 2 | 2 | 2 | 25 |
|  |  | Deconstruction movement 1 | 2 | 2 | 26 |
|  |  | Deconstruction movement 2 | 2 | 2 | 27 |
|  |  | Folding Movement | 2 | 2 | 28 |
|  |  | final reports delivery | 2 | 2 | 29 |
|  |  | Review course | 2 | 2 | 30 |

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| ***15. Infrastructure*** | | |
|  | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| ----- | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| Arc 407 | | Pre-requisites |
| 40 | | Minimum number of students |
| 80 students | | Maximum number of students |
| ***Instructor:***  **Assist Professor. Areej Kareem Majeed Al-Sad Khan**  Ph. D. in Architectural Engineering- Philosophy of Design and Criticism  E-mail: [areage64@yahoo.com](mailto:areage64@yahoo.com)  Arc. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964-7901343380  Email: | | ***17. Course Instructors*** |

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**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering,  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department  (AED) | ***2. University Department/Centre*** |
| **ARC 409 Architecture and Climate:**  This course introduces the description basic concepts of the reciprocal relationship between the natural environment and architecture, and climate factors, especially in hot dry regions. Then going into the concepts of exchanging of the permanent act among these factors and man's physiological requirements. Moreover, the positive and negative climatic sides and the method of protection are clarified to the student in order to reach designing and planning values that might be the basis in determining the architectural local climate level and micro climate in enclosed spaces. as well as, studying sustainable concepts & sustainable architecture and its importance in provide healthy environment for human and conserve natural environment and climatic system balance.  The study basically concentrates on determining basic treatment directions in the residential and public buildings in order to be adopted by the student in his design works whether they are at the academic level or at the application level. | ***3. Course title/code& Description*** |
| Architectural Engineering (AE) | ***4. Programme(s) to which it Contributes*** |
| Course System; There is only one mode of delivery, which is a “Day Program”. The students are full time students, and on campus. They attend full day program in face-to-face mode. The academic year is composed of 13-week regular subjects. | ***5. Modes of Attendance offered*** |
| 1st / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 26 hrs. / 2 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| 1. Identify the student with a wide database of the whole basic concepts of the reciprocal relationship between the natural environment and architecture starting from climatic natural factors and their physical facts at the territorial level in general and at the local level of Iraqi regions in particular as an example of hot dry regions. 2. Specify the concepts of exchanging of the permanent act among these factors and man's physiological requirements. 3. Illustrate the positive and negative climatic sides and the method of protection are clarified to the student in order to reach designing and planning values that might be the basis in determining the architectural local climate level and micro climate in enclosed spaces. 4. Illustrate the importance of sustainable concepts in conservation our natural environment and climatic system balance. 5. Studying and illustrate sustainable architecture and its importance in provide healthy environment for human and conservation natural environment. 6. Illustrate the importance of sustainable developments and its importance in conservation the resources and provide economy sustainable. | |

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| ***10·Learning Outcomes*** |
| At the end of the course, the student will be able to:  a. Define concepts of climate, natural environment, and natural environment & architecture.  b. Understand concepts of environmental architecture.  c. Define concepts of sustainability, and sustainable architecture.  d. Calculate; lightings inside buildings and shadows.  e. Be familiar with climatic factors, energy, and sustainability concepts, and its importance in architecture.  f. Understand and apply the principles of sustainability in architecture.  g. designed buildings which adapted with natural environment.  h. Be able to analyze and design form, functions, interiors of environmental buildings in hot arid regions.  i. Be able to apply modern knowledge, science, engineering and technology to sustainable buildings.  j. Understand professional, social and ethical responsibilities.  k. Communicate effectively.  l. Use the techniques, skills, and modern engineering tools necessary for architectural engineering practice in sustainable architecture applications. |
| ***11.Teaching and Learning Methods*** |
| 1. Lectures. 2. Tutorials. 3. Homework and Assignments. 4. PowerPoint Show 5. Tests and Exams. 6. In-Class Questions and Discussions. 7. Connection between Theory and Application. 8. Extracurricular Activities. 9. Seminars. 10. In- and Out-Class oral conservations. 11. Reports, Presentations, and Posters. |
| ***12. Assessment Methods***   1. Examinations, Tests, and Quizzes. 2. Extracurricular Activities. 3. Student Engagement during Lectures. 4. Responses Obtained from Students, Questionnaire about Curriculum and Faculty Member ( Instructor ). |
| ***13. Grading Policy***   1. Quizzes:  * There will be a ( 30 ) closed books and notes quizzes during the academic year. * The quizzes will count 20% of the total course grade.  1. Tests, 2-3 Nos. and will count 10% of the total course grade. 2. Final Exam:  * The final exam will be comprehensive, closed books and notes, and will take place on January 2014 from 9:00 AM - 12:00 PM in rooms ( 180 + 280 ) * The final exam will count 70% of the total course grade. |

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| ***14. Course Structure*** | | | | | |
| **Assessment**  **Method** | **Teaching**  **Method** | **Unit/Module or**  **Topic Title** | **LOs**  **( Article**  **10 )** | **Hours** | **Week** |
| 1 – 4 of article (12) | 1-11 of  article (11) | General environment concept climatically characters in world regions and especially hot dry region. | a, b, g, h, k | 2 | 1 |
| 1 – 4 of article (12) | 1-11 of  article (11) | Climatically variables which effect living creatures (human, animals, plants) and their interaction. | a, g, h, k | 2 | 2 |
| 1 – 4 of article (12) | 1-11 of  article (11) | Bioclimatic evaluation and interfering with planning and design decisions for exterior and interior environment. | a, g, h, i, k | 2 | 3 |
| 1 – 4 of article (12) | 1-11 of  article (11) | Sunrays and direction effect on hot dry areas, and the relation of its intensity on thermal loads. | a, g, h, i, k | 2 | 4 |
| 1 – 4 of article (12) | 1-11 of  article (11) | Calculation of thermal loads on elevations and facades. | a, g, h, i, k | 2 | 5 |
| 1 – 4 of article (12) | - | Examination | - | 2 | 6 |
| 1 – 4 of article (12) | 1-11 of  article (11) | Concepts and practices of Sustainable Architecture and its importance on Human and Natural environments health. | c, e, f, i, j, k, l | 2 | 7 |
| 1 – 4 of article (12) | 1-11 of  article (11) | Architectural configuration in surrounding nature with adjustment of climatically conditions. | c, e, f, i, j, k, l | 2 | 8 |
| 1 – 4 of article (12) | 1-11 of  article (11) | Thermal transfer of building exterior envelope, adopting details. | g, e, f, i, j, k, l | 2 | 9 |
| 1 – 4 of article (12) | 1-11 of  article (11) | General concepts of designing open spaces in hot and wet climate in traditional architecture to adopt and their possibility in contemporary urban design. | g, e, f, i, j, k, l | 2 | 10 |
| 1 – 4 of article (12) | 1-11 of  article (11) | General concepts of natural lighting especially in traditional architecture to adopt their solutions in contemporary design in hot dry climate. | d, g, e, f, i, j, k, l | 2 | 11 |
| 1 – 4 of article (12) | 1-11 of  article (11) | General concepts of air circulations and their effect in reducing thermal loads. | d, g, e, f, i, j, k, l | 2 | 12 |
| 1 – 4 of article (12) | - | Examination | - | 2 | 13 |

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| ***15. Infrastructure*** | |
| ***Textbook***:  Lectures of "Architecture and Climate in Hot Arid Regions" for the fourth stage of the Department of Architecture - University of Baghdad.  ***References***:   * Vector Olgyay, "Design with Climate", New Jersey 1992. * Brown G.Z., "Sun, Wind a Light", New York, 2000. * Norbert Leehner, "Heating, Cooling, Lighting", New York, 2000. * Guy, Simon and Moore, Steven A., "Sustainable Architectures", USA, 2005. * MacKay, David JC, "Sustainable Energy", United Kingdome, 2009.   ***Others:***   * Many researches and articles about sustainable architecture and climate in hot arid regions. * Many sustainable architectural projects (plans, Pictures, and its analysis). | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER |
| * Extracurricular activities, like (Architectural projects and its analysis, studying one of environmental architecture subjects' and discussed in paper, and so on). | Special requirements (include for example workshops, periodicals, IT software, websites) |
| * Extra lectures by foreign guest lecturers. | Community-based facilities (include for example, guest Lectures, internship, field studies) |
| ***16. Admissions*** | |
| ARC 409 Architecture and Climate (1st Course) | Pre-requisites |
| - | Minimum number of students |
| 75 | Maximum number of students |

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| ***Instructor:***  **1. Prof.Dr. Bahjat rashad Shahin**  Professor of Architecture and Environment  Arch. Engr. Dept.  College of Engineering  University of Baghdad  **E-mail:** [**arch\_dep@yahoo.com**](mailto:arch_dep@yahoo.com)  ***Teaching Assistant:***  **2. Lecturer. Ghada Mohammed Ismaiel Abdul-Razzaq**  Ms.C. in Architecture and Environment, and now Ph.D. Student in Architecture and Environment.  Arch. Engr. Dept.  College of Engineering  University of Baghdad  **E-mail:** [**ghada2010mi@yahoo.com**](mailto:ghada2010mi@yahoo.com) | ***17. Course Instructors*** |

Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2016-2017

Universitiy: Baghdad

College : Engineering

Number Of Departments In The College : 12 Twelve

Date Of Form Completion : oct. – 10 / 2016

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Dean ’s Name

Date : / 10/ 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

Signature

Quality Assurance And University Performance Manager

Date : / / 2016

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| --- | --- |
| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department  (ARC) | ***2. University Department/Centre*** |
| **Advanced Building Technology - Code No. ARC404**  **Fourth Year**  The subject aims to identify the students with technology (in general) as an intellect and application and the building technology in particular, and its relationship with architecture as a social requirement with the concentration on the ways to upgrade technology from primitiveness and craftsmanship to the modern scientific/industrial technology, within a complementary and comprehensive view in the architectural act. | ***3. Course title/code & Description*** |
| Architectural Engineering ( ARC ) | ***4. Programme(s) to which it Contributes*** |
| **The program:** annual- theoretical lectures, examinations, discussions, and preparing reports | ***5. Modes of Attendance offered*** |
| 1st & 2nd ***/***Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 60 hrs. / 2 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| 1. Identify the students with technology (in general) as an intellect and application and the building technology in particular. 2. Its relationship with architecture as a social requirement with the concentration on the ways to upgrade technology from primitiveness and craftsmanship to the modern scientific/industrial technology, within a complementary and comprehensive view in the architectural act. | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to:   1. Analyze and discuss structural type of each individual building. 2. Be aware of many kinds of construction technologies adapted to buildings. 3. Relation between architectural and structural form. 4. Choose the Wright structural system suitable to architectural form. 5. Learn more about construction details. 6. Discover more materials suitable for architecture. |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures. 2. Tutorials. 3. In-Class Questions and Discussions. 4. Connection between Theory and Application. 5. Seminars. 6. In- and Out-Class oral conservations. 7. Reports, Presentations, and Posters. |
| ***12. Assessment Methods***   1. Examinations, Tests, and Quizzes. 2. Student Engagement during Lectures. 3. Responses Obtained from Students, Questionnaire about. 4. Curriculum and Faculty Member (Instructor). |
| ***13. Grading Policy***  **Quizzes:**   1. There will be (30 degrees of 100) closed books and notes quizzes during the academic year, the quizzes will count 5% of the total course grade. 2. Tests, 2-3 Nos. and will count 20% of the total course grade. 3. Extracurricular Activities, this is optional and will count extra marks (5 %) for the student, depending on the type of activity. 4. Final Exam:  * The final exam will be comprehensive, closed books and notes, and will take place on January 2014 from 9:00 AM - 12:00 PM in rooms ( 280 + 180 ) * The final exam will count 70% of the total course grade. |

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| ***14. Course Structure*** | | | | | |
|  |  |  |  |  | Week |
| Introductions, definitions and terms / types of technology / the economical and social factors that influence the selection of the appropriate technology / basics of technology the material aspect and its rules / the influence of material in the technological act (designing) / construction and structure and the relationship between them / how should we understand the structure – how do we choose the appropriate structure – structural systems – methods of classification – the properties and language of every system – the distinguished characteristics of the structural elements (the column, vault, truss, floor basement, dome) – the frame structure – the long span structure. | | | | | 1 |
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| 10 |
| The services: their importance and degree of influencing architecture, separation and integration in the constructional activity - the architectural designer role's changing | | | | | 11 |
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| 15 |
| Basics and principles of raising construction to a modern technology – scaling – modular coordination, the previous production of components, machinery, the performance description.  The technical base and its rules – design, production, handicraft production and its characteristics, the quantity production and its requirements – implementation and its types (the classical, the post classical, the directed, semi manufactured and the manufactured) – implementation and its degree of influence in the design decision. | | | | | 16 |
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| 26 |
| The influential factors in selecting the implementation technology – the Iraqi experience in the directed construction – the prefabricated construction: linear and surface components manufacturing, joints / models from the Iraqi experience. | | | | | 27 |
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| ***15. Infrastructure*** | | |
| **Textbook:**  “Structure Systems”; with apreface by Rapson and an article by Hannskarl Bandel.  Deutsche Verlags-Anstalt Stuttgart.  1967 printed in Germany.  **References:**  Notebook prepared by the instructor | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * Available websites related to the subject. * Extracurricular activities. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| * Scientific Videos. * Extra lectures by foreign guest lecturers. | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **ARC 404 Advanced Building Technology** | | Pre-requisites |
| 60 | | Minimum number of students |
| 75 | | Maximum number of students |
| ***Instructor:***  **Lecturer: Mohammed Ridha Al Chalabi**  Msc. Architecture  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964-7901361295  Email:  mridhachalabi@yahoo.com  mridhachalabi@gmail.com | | ***17. Course Instructors*** |

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department  (ARC) | ***2. University Department/Centre*** |
| **ARC 501 Architectural Designs**  This subject is considered the student's final stage in the design practice. It concentrates on the concept of urban development through the direct field documentation of traditional areas or central areas in the Iraqi cites. By doing so, developmental alternatives are set forth as a basic in the concepts of conservation, development and building material and through an organizing method which is dependent on the rules and legislations of Baghdad municipality and the municipalities of the governorates. | ***3. Course title/code & Description*** |
| Architectural Engineering ( ARC ) | ***4. Programme(s) to which it Contributes*** |
| **The program:** Design projects, detail drawings and models. | ***5. Modes of Attendance offered*** |
| 1st semester ***/***Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 180 hrs. / 12 hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| **The aim**   * The aim is to prepare the student to enter the world of architecture intellectually, conceptually and practically as a basic working rule. * Moreover, the subject aims at identifying the student with the concept of architecture by identifying the basic principles of design, composition, three dimensions, the human scale, the surroundings of the urban environment, etc., and developing the student's expressive language of those items. * The subject, also, concentrates on developing the student's artistic and creative sense, the style of analytic and synthetic thinking, in addition to developing his awareness and sensation of the natural and built environment and to respect this environment starting from realizing and appreciating the classical urban environment and studying the presentational, plastic and compositional relationships of its elements and components. | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to:   1. Analyze and archive buildings of most important area in city center. 2. Be aware of many kinds urban design problems and many types of buildings. 3. Relation between architectural and urban design. 4. Learn how to produce complete huge projects. 5. Learn more about urban details. |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures. 2. Tutorials. 3. In-Class Questions and Discussions. 4. Connection between Theory and Application. 5. Working drawing projects. 6. In- and Out-Class oral conservations. 7. Site visits and documentation. 8. Models. |
| ***12. Assessment Methods***   1. Examinations, Tests, and day sketches. 2. Student Engagement during Lectures. 3. Responses Obtained from Students, Questionnaire about. 4. Curriculum and Faculty Member (Instructor).   Working drawing projects |
| ***13. Grading Policy***  **Quizzes:**   1. There will be (30 degrees of 100) for day sketches during the academic year, the day sketches will count 30% of the total course grade. 2. Main urban design project, and will count 70% of the total course grade. |

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| ***14. Course Structure*** | | | | | |
|  |  |  |  |  | Week |
| The field study of the real condition through the field measurements and photographing and freehand drawing and reviewing the valid rules and limitations. | | | | | 1 |
| 2 |
| Presenting the preliminary planning and developing concepts through the field study and limitations of the site. | | | | | 3 |
| 4 |
| Presenting a suggested basic plan of the developmental alternative that supports the well established intellectual base. | | | | | 5 |
| 6 |
| The final presentation of the suggested alternative (a 3d model with a suitable measure and basic plans of all the project which clarify the general application and the distribution of the adopted functions) | | | | | 7 |
| 8 |
| 9 |
| Presenting architectural details and important parts in the site which are divided on the student individually. | | | | | 10 |
| 11 |
| 12 |
| Day sketches during the semester | | | | | 13 |
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| ***15. Infrastructure*** | | |
| **Textbook & References:**  Any book or magazine related to urban design. | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * Available websites related to the subject. * Extracurricular activities. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| * Scientific Videos. * Site visits | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **ARC 501 Architectural Designs** | | Pre-requisites |
| 70 | | Minimum number of students |
| 75 | | Maximum number of students |
| ***Instructor:***  **Lecturer: Mohammed Ridha Al Chalabi**  Msc. Architecture  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964-7901361295  Email:  mridhachalabi@yahoo.com  mridhachalabi@gmail.com | | ***17. Course Instructors*** |

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**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering/University of Baghdad | ***1. Teaching Institution*** |
| Architecture Engineering Department | ***2. University Department/Centre*** |
| Architectural Design | ***3. Course title/code & Description*** |
| Two of master holding | ***4. Programme(s) to which it Contributes*** |
|  | ***5. Modes of Attendance offered*** |
| year | ***6. Semester/Year*** |
| 8 hours Weekly | ***7. Number of hours tuition (total)*** |
|  | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The final project is considered the final stage of the knowledge, which has been given to the student during his years of study, represented by intellectual maturity, the basics of the design work and its belonging to the place and its relation to the values and deep roots of his country, nation, society, tradition and culture and letting the student to express these values through his intellectual and design presentations of the selected project which we emphasize to be one of the real projects proposed by different state offices and which have clear dependable curriculum, or proposed by professors in order to solve a particular problem.  The work of the final project starts by collecting information in addition to the information of the similar examples, searching for the intellectual and designing presentation of similar projects in order to be a database for the student to discuss during the first academic year with the subject professors and with the participation of all the students. | |

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| ***14. Course Structure*** | | | | | |
|  |  |  |  |  | Week |
|  |  | Survey field |  |  | 1 |
|  |  | Survey field |  |  | 2 |
|  |  | exam |  |  | 3 |
|  |  | Existing pre final |  |  | 4 |
|  |  | Existing final |  |  | 5 |
|  |  | exam |  |  | 6 |
|  |  | Pre final |  |  | 7 |
|  |  | Final presentation for development project |  |  | 8 |
|  |  | exam |  |  | 9 |
|  |  | prelim |  |  | 10 |
|  |  | Pre final |  |  | 11 |
|  |  | exam |  |  | 12 |
|  |  | Final presentation for individual development project |  |  | 13 |
|  |  | **Project seminar** |  |  | 14 |
|  |  | Discussing project seminar |  |  | 15 |
|  |  | Presentation concept |  |  | 16 |
|  |  | Pre final concept |  |  | 17 |
|  |  | Final presentation for concept |  |  | 18 |
|  |  | exam |  |  | 19 |
|  |  | Presentation ground plans |  |  | 20 |
|  |  | Pre final ground plans |  |  | 21 |
|  |  | Final presentation for ground plans |  |  | 22 |
|  |  | Presentation sections and fronts |  |  | 23 |
|  |  | Pre final sections and fronts |  |  | 24 |
|  |  | Field development |  |  | 25 |
|  |  | Project pre final presentation as one unit |  |  | 26 |
|  |  | **Final discussing for graduation project** |  |  | 27 |
|  |  |  |  |  | 28 |
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**The first term**

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| --- | --- |
| **Week** | **Subject** |
| 1st + 2nd week | Discussing the primary report draft of the thesis project which has been adopted and which its information has been gathered during the summer holiday. |
| 3rd + 4th + 5th week | Completing the collection of information and concluding the values, basic principles and the intellectual trends which were inferred through the direct dialogue with professors or through the reliance on the dependable references and the historical roots of the adopted project reality. |
| 6th + 7th + 8th week | An attempt to reflect the conclusions of the previous study in a compositional concept which gives us primary conception of the whole designing concept without going into accurate executive details. |
| 9th + 10th + 11th week | Preparing the report in its final form with the implementation a group of plans inferred from the comprehensive database of the whole work. |

**Note:**The academic term involves discussions with students' participation to enrich the study.

**The second term Fifth Year**

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| **Week** | **Subject** |
| 1st + 2nd week | The student repeats the attempt to present a comprehensive compositional concept in the form of three dimensional figure and plain plans which give a preliminary conception of the proposed project. |
| 3rd + 4th + 5th week | Going into the details of the project's general application and applying the adopted method and then identifying the adopted engineering systems and circulation systems and the details of the project divisions. |
| 6th + 7th + 8th week | Detailed studies of the project's main parts and solving the designing items and reaching a clear expression of elevations and the project's interior features. |
| The final weeks | Are specified for the final preparation of the final project. |

**Note:**All the stages of presentation are subjected to the public discussion with professors and students. Moreover, there are quick tests to accompany the student's ability.

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| ***15. Infrastructure*** | | |
|  | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
|  | | Pre-requisites |
|  | | Minimum number of students |
|  | | Maximum number of students |
| Shatha Abbas Hassan  [shatha\_aamiri@yahoo.com](mailto:shatha_aamiri@yahoo.com) | | ***17. Course Instructors*** |

Republic of Iraq

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Dean ’s Assistant For Scientific Affairs

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Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

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**TEMPLATE FOR COURSE SPECIFICATION**

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**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

|  |  |
| --- | --- |
| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Engineering Department  (ARC) | ***2. University Department/Centre*** |
| **ARC 502 the Thesis Project:**  The final project is considered the final stage of the knowledge, which has been given to the student during his years of study, represented by intellectual maturity, the basics of the design work and its belonging to the place and its relation to the values and deep roots of his country, nation, society, tradition and culture and letting the student to express these values through his intellectual and design presentations of the selected project which we emphasize to be one of the real projects proposed by different state offices and which have clear dependable curriculum, or proposed by professors in order to solve a particular problem.  The work of the final project starts by collecting information in addition to the information of the similar examples, searching for the intellectual and designing presentation of similar projects in order to be a database for the student to discuss during the first academic year with the subject professors and with the participation of all the students. | ***3. Course title/code & Description*** |
| Architectural Engineering ( ARC ) | ***4. Programme(s) to which it Contributes*** |
| **The program:** Design thesis projects, detail drawings and models. | ***5. Modes of Attendance offered*** |
| 1st & 2nd semester ***/***Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 120 hrs. / 8 hrs. per week for 1st semester & 270 hrs. / 18 hrs. per week for 2nd semester | ***7. Number of hours tuition (total)*** |
| Oct. –10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| **The aim**   * The final project is considered the final stage of the knowledge, which has been given to the student during his years of study, represented by intellectual maturity, the basics of the design work and its belonging to the place and its relation to the values and deep roots of his country, nation, society, tradition and culture and letting the student to express these values through his intellectual and design presentations of the selected project which we emphasize to be one of the real projects proposed by different state offices and which have clear dependable curriculum, or proposed by professors in order to solve a particular problem, or a topographically or environmentally distinguished project of designing requirements that bear a highly leveled capital feature, or a project specified to solve a problem or crisis that is raised in the architectural field like projects of housing or industrial projects or a distinguished conservative project in the case of big projects in which it is allowed to be carried out by more than one student. * The work on the final project starts from the end of the forth year. The summer holiday is specified for studying. * The work of the final project starts by collecting information in addition to the information of the similar examples, searching for the intellectual and designing presentation of similar projects in order to be a database for the student to discuss during the first academic year with the subject professors and with the participation of all the students, presenting a detailed report of these works at the end of the first part of the fifth academic year and, thus, forming a base of all the designing planning Intellectual presentations of the project that will be carried out during the second academic term. | |

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| ***10·*** ***Learning Outcomes*** |
| At the end of the class, the student will be able to:   1. Analyze and archive individual project of specific function. 2. Be aware of many kinds design process and how to solve different related problems connected to building. 3. Relation between architectural and structural form. 4. Learn how to produce complete single complete project. 5. Learn more about architectural details. |
| ***11.*** ***Teaching and Learning Methods*** |
| 1. Lectures. 2. Tutorials. 3. In-Class Questions and Discussions. 4. Connection between Theory and Application. 5. Working drawing projects. 6. In- and Out-Class oral conservations. 7. Site visits and documentation. 8. Models. |
| ***12. Assessment Methods***   1. Examinations, Tests, and day sketches. 2. Student Engagement during Lectures. 3. Responses obtained from Students, questionnaire about. 4. Curriculum and Faculty Member (Instructor). 5. Working drawing projects |
| ***13. Grading Policy***  **Quizzes:**   1. There will be (30 degrees of 100) for day sketches during the academic year, the day sketches will count 10% of the total course grade. 2. Preliminary design of thesis project till pre final submission, and will count 40% of the total course grade. 3. Final submission of thesis project and will count 50% of the total course grade. |

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| ***14. Course Structure*** | | | | | |
|  |  |  |  |  | Week |
| Discussing the primary report draft of the thesis project which has been adopted and which its information has been gathered during the summer holiday. | | | | | 1 |
| 2 |
| Completing the collection of information and concluding the values, basic principles and the intellectual trends which were inferred through the direct dialogue with professors or through the reliance on the dependable references and the historical roots of the adopted project reality. | | | | | 3 |
| 4 |
| 5 |
| An attempt to reflect the conclusions of the previous study in a compositional concept which gives us primary conception of the whole designing concept without going into accurate executive details. | | | | | 6 |
| 7 |
| 8 |
| Preparing the report in its final form with the implementation a group of plans inferred from the comprehensive database of the whole work. | | | | | 9 |
| 10 |
| 11 |
| Note: The academic term involves discussions with students' participation to enrich the study. | | | | | 12 |
| 13 |
| 14 |
| 15 |
| The student repeats the attempt to present a comprehensive compositional concept in the form of three dimensional figure and plain plans which give a preliminary conception of the proposed project. | | | | | 16 |
| 17 |
| Going into the details of the project's general application and applying the adopted method and then identifying the adopted engineering systems and circulation systems and the details of the project divisions. | | | | | 18 |
| 19 |
| 20 |
| Detailed studies of the project's main parts and solving the designing items and reaching a clear expression of elevations and the project's interior features. | | | | | 21 |
| 22 |
| 23 |
| Are specified for the final preparation of the final project. | | | | | 24 |
| 25 |
| 26 |
| 27 |
| 28 |
| 29 |
| Note: All the stages of presentation are subjected to the public discussion with professors and students. Moreover, there are quick tests to accompany the student's ability. | | | | | 30 |

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| ***15. Infrastructure*** | | |
| **Textbook & References:**  Any book or magazine related to architectural and interior design. | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
| * Available websites related to the subject.   Extracurricular activities. | Special requirements (include for example workshops, periodicals, IT software, websites) | |
| * Scientific Videos.   Site visits | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **ARC 502 the Thesis Project** | | Pre-requisites |
| 70 | | Minimum number of students |
| 75 | | Maximum number of students |
| ***Instructor:***  **Lecturer: Mohammed Ridha Al Chalabi**  Msc. Architecture  Arch. Engr. Dept.  College of Engineering  University of Baghdad  Tel: +00964-7901361295  Email:  mridhachalabi@yahoo.com  mridhachalabi@gmail.com | | ***17. Course Instructors*** |

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Republic of Iraq

Ministry of Higher Education & Scientific Research

Supervision and Scientific Evaluation Directorate

Quality Assurance and Academic Accreditation

International Accreditation Dept.

Academic Program Specification Form For The Academic Year 2016-2017

Universitiy: Baghdad

College : Engineering

Number Of Departments In The College : 12 Twelve

Date Of Form Completion : Oct. – 10/ 2016

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Dean ’s Name

Date : / 10 / 2016

Signature

Dean ’s Assistant For Scientific Affairs

Date : / / 2016

Signature

The College Quality Assurance And University Performance Manager

Date : / / 2016

Signature

Quality Assurance And University Performance Manager

Date : / / 2016

Signature

**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**COURSE SPECIFICATION**

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| This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification. |

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| College of Engineering  University of Baghdad | ***1. Teaching Institution*** |
| Architectural Department | ***2. University Department/Centre*** |
| **Profession Practice ARC504**  The subject aims to identify the student with the basics of profession practice and the duties of the architectural engineer | ***3. Course title/code & Description*** |
| Architecture engineering | ***4. Programme(s) to which it Contributes*** |
| Semester system | ***5. Modes of Attendance offered*** |
| 2nd / Academic Year 2016 – 2017 | ***6. Semester/Year*** |
| 20 hrs. /2hrs. per week | ***7. Number of hours tuition (total)*** |
| Oct. – 10 / 2016 | ***8. Date of production/revision of this specification*** |
| ***9. Aims of the Course*** | |
| The subject aims to identify the student with the basics of profession practice and the duties of the architectural engineer towards this profession through his design presentations, first, being as a creative thinker and, second, being as a coordinator and a leader of the working team in his field practice. | |

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| ***10·*** ***Learning Outcomes***  the student identifies the main tasks of the architectural engineer as a performer and participant in the architectural works contest or in the research and designing works through the principle of working with the different state offices. The student also identifies the basics of professional hierarchy through the professional regularities used in the Iraqi Union of Engineers. |
| ***11.*** ***Teaching and Learning Methods***  1. Lectures.  2. Tutorials.  3. Homework and Assignments.  4. Tests and Exams.  5. In-Class Questions and Discussions.  6. Connection between Theory and Application. |
| ***12. Assessment Methods***  Examinations, Tests, and Quizzes. |
| ***13. Grading Policy***   |  |  |  | | --- | --- | --- | | **Final Examination** | **Second exam** | **First exam** | | **70%** | **15%** | **15%** | |

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| **Theoretical Content** | Week |
| The architectural engineer and the architectural profession | 1 |
| Architectural consultative services | 2 |
| The professional hierarchy | 3 |
| Engineering and architectural professional organizations | 4 |
| Practice system and professional behavior according to the Union of Engineers law | 5 |
| Standard in choosing the architectural engineers | 6 |
| Architectural contests | 7 |
| Consultative engineering contract | 8 |
| The wages of the architectural engineers | 9 |
| construction laws / the legislative rules concerning construction works | 10 |
|  | 11 |
|  | 12 |
|  | 13 |

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| ***15. Infrastructure*** | | |
| ***Textbook***  Professional Practice and Code of Ethics | Required reading:  · CORE TEXTS  · COURSE MATERIALS  · OTHER | |
|  | Special requirements (include for example workshops, periodicals, IT software, websites) | |
|  | Community-based facilities  (include for example, guest  Lectures , internship , field studies) | |
| ***16. Admissions*** | | |
| **ARC504** | | Pre-requisites |
| / | | Minimum number of students |
| 60 | | Maximum number of students |
| Lecturer assistance: Ahmed Khudher Abdulridha  Tel: +00964-7903306716  Email: ahkhudher1978@yahoo.com | | ***17. Course Instructors*** |

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