



**المركز الوطني للتقويم والاعتماد الأكاديمي**  
National Center for Academic Accreditation and Evaluation

**ATTACHMENT 5.**

## **T6. COURSE SPECIFICATIONS (CS)**



هيئة تقويم التعليم  
Education Evaluation Commission

## Course Specifications

|  |                |
|--|----------------|
| Institution: AlYamamah University                            | Date: 9\2\2019 |
| College/Department : College of Engineering and Architecture |                |

### A. Course Identification and General Information

|   |                                     |                  |                                   |
|---|-------------------------------------|------------------|-----------------------------------|
| 1. Course title and code: ARC413 : <b>working drawing 2</b>   |                                     |                  |                                   |
| 2. Credit hours: 3  |                                     |                  |                                   |
| 3. Program(s) in which the course is offered.<br>(If general elective available in many programs indicate this rather than list programs) |                                     |                  |                                   |
| 4. Name of faculty member responsible for the course: <b>Dr. Mayas Ahmad Taha</b>   |                                     |                  |                                   |
| 5. Level/year at which this course is offered: 4 <sup>th</sup> year   |                                     |                  |                                   |
| 6. Pre-requisites for this course (if any): N\A   |                                     |                  |                                   |
| 7. Co-requisites for this course (if any): ARC403   |                                     |                  |                                   |
| 8. Location if not on main campus: Main Campus  |                                     |                  |                                   |
| 9. Mode of Instruction (mark all that apply):   |                                     |                  |                                   |
| a. traditional classroom  | <input checked="" type="checkbox"/> | What percentage? | <input type="text" value="100%"/> |
| b. blended (traditional and online)   | <input type="checkbox"/>            | What percentage? | <input type="text"/>              |
| c. e-learning   | <input type="checkbox"/>            | What percentage? | <input type="text"/>              |
| d. correspondence   | <input type="checkbox"/>            | What percentage? | <input type="text"/>              |
| f. other  | <input type="checkbox"/>            | What percentage? | <input type="text"/>              |
| Comments:   |                                     |                  |                                   |

## B. Objectives

1. What is the main purpose for this course?  
- The course aims to emphasize the importance OF construction documents, working drawings in this level includes all documents of the project (plans, elevations, sections, architectural details, in addition to technical systems such as sanitation and electrical documents & bills of quantities and specifications.

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

N\A (Offred for the first time)

## C. Course Description (Note: General description in the form used in Bulletin or handbook)

### Course Description:

This course deals with working drawings and construction documentation as one of the architectural design phases, in this course the students are required to prepare construction documents and BOQs to one of their previously designed project.

### 1. Topics to be Covered

| List of Topics  | No. of Weeks | Contact hours |
|---|--------------|---------------|
| <ul style="list-style-type: none"> <li>- Introduction to The Course, lecture Guiding Lines.</li> <li>- Lecture about Introduction and definitions of WORKING DRAWING</li> <li>- Discussion of creating a full document about one of the previous projects</li> </ul>                    | 1            | 6             |
| <ul style="list-style-type: none"> <li>- Lecture about (working drawing Plan Sheets, that are required from the architecture designer, for ay contract)</li> <li>- review of the previous course</li> </ul>   | 1            | 6             |
| <ul style="list-style-type: none"> <li>- Lecture: DRAWING SHEETS AND TITLE BLOCKS.</li> <li>- Project Selection</li> </ul>  | 1            | 6             |
| <ul style="list-style-type: none"> <li>- Lecture about the Structural System: Allocation of: Columns.</li> <li>- In class discussion on different Structural System</li> <li>- Submission of Project title sheet A1</li> <li>- Primary distribution of the Structural System</li> </ul> | 1            | 6             |
| <ul style="list-style-type: none"> <li>- Adapting the structural grid</li> <li>- Performing Architectural Modifications, Solution for the construction sake</li> </ul>  | 1            | 6             |
| <ul style="list-style-type: none"> <li>- In class discussion about the Structural System</li> <li>- Lecture about Beams and slabs</li> </ul>  | 1            | 6             |
| <ul style="list-style-type: none"> <li>- LECTURE about foundation system and plan:</li> <li>- definition of foundation, types of foundations</li> <li>- Ceiling and Flooring plan</li> </ul>  | 1            | 6             |

|  |   |   |
|--|---|---|
| - <b>Mid term</b>  | 1 | 6 |
| - Discuss about the reflected Ceiling plan and Flooring plan.                          |   |   |
| - Lecture about sections, in general - part 1  | 1 | 6 |
| - Lecture about details sections – part 2  |   |   |
| - Lecture about Vertical Circulation: (Staircases, Elevators, ...) section and details | 1 | 6 |
| - Lecture about elevation, in general  |   |   |
| - Discuss about Stair section and details  |   |   |
| - Lecture about expansion joints- part 1   | 1 | 6 |
| - Lecture and discussion about expansion joints- part 2                                |   |   |
| - Lecture about details - part 1   | 1 | 6 |
| - Lecture and discussion about details - part 2  |   |   |
| - Lecture about plumbing plan  | 1 | 6 |
| - plumbing details and water supply system   |   |   |
| - Discuss about : Sanitary Engineering and connections, Bathrooms                      |   |   |
| - Lecture about Electrical plan:( Illumination- Power sockets- Devices empowering)     | 1 | 6 |
| - Discuss about Electrical plan  |   |   |
| - Lecture about site plan working drawing  | 1 | 6 |
| - Lecture and discussion about site plan details                                       |   |   |
| <b>Submission of working drawing booklet for the plans of all floors</b>               | 1 | 6 |

2. Course components (total contact hours and credits per semester):

|               |         | Lecture | Tutorial | Laboratory/<br>Studio | Practical | Other: | Total |
|---------------|---------|---------|----------|-----------------------|-----------|--------|-------|
| Contact Hours | Planned | 45      | 0        | 45                    | 0         | 0      | 90    |
|               | Actual  | 45      | 0        | 45                    | 0         | 0      | 90    |
| Credit        | Planned | N\A     | N\A      | N\A                   | N\A       | N\A    | 6     |
|               | Actual  | N\A     | N\A      | N\A                   | N\A       | N\A    | 6     |

3. Additional private study/learning hours expected for students per week.

6

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

**On the table below are the five NQF Learning Domains, numbered in the left column.**

**First**, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

| Code #     | NQF Learning Domains And Course Learning Outcomes  | Course Teaching Strategies  | Course Assessment Methods   |
|------------|--|---|---|
| <b>1.0</b> | <b>Knowledge</b>   |   |   |
| 1.1        | <i>Reproduce the design projects as working drawing plan .</i>   | <ul style="list-style-type: none"> <li>✓ Lectures</li> <li>✓ One to one class discussion</li> <li>✓ Studio activities</li> <li>✓ Demonstration of case studies</li> </ul> | <p><i>Continuous assessment so as indirect methods</i><br/><i>Class activities (from10%)</i></p>  |
| 1.2        | <i>Recognize non-architectural working drawings such as; landscape, civil, mechanical &amp; electrical drawings.</i> | <ul style="list-style-type: none"> <li>✓ Lectures</li> <li>✓ Studio Activities</li> </ul>   | <p><i>submission of Site plan and water supply system Plans and electrical plans for all levels (from10%)</i></p>   |
| <b>2.0</b> | <b>Cognitive Skills</b>  |   |   |
| 2.1        | <i>develop the conceptual &amp; schematic architectural designs to working drawings</i>                              | <ul style="list-style-type: none"> <li>✓ Studio Activities</li> </ul>   | <p><i>Submission of working drawing plans for the whole levels of the project 10%</i></p>   |
| 2.2        | <i>Prepare complete architectural working drawings- and BOQs for his projects.</i>                                   | <ul style="list-style-type: none"> <li>✓ Lectures</li> <li>✓ Studio Activities</li> </ul>   | <p><i>Class activities, and submission of working drawing plans, sections and elevations 40% (from10%)</i><br/><i>Midterm (from 20%)</i><br/><i>Final exam (from 40%)</i></p> |
| <b>3.0</b> | <b>Communication, Information Technology, Numerical</b>  |   |   |

|            |  |                            |  |
|------------|--|----------------------------|--|
| 3.1        | <i>Operate computer applications and the IT resources in the producing working drawings &amp; construction documents</i> | ✓ <i>Studio Activities</i> | <i>Submission of working drawing booklet</i>             |
| <b>4.0</b> | <b>Psychomotor</b>   |                            |  |
| 4.1        | <i>draw free hand plans which are essential for generating many Techniques about working drawing .</i>                   | ✓ <i>Studio Activities</i> | <i>Midterm exam (from 20%)<br/>Final exam( from 40%)</i> |

#### 5. Schedule of Assessment Tasks for Students During the Semester

|   | Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)     | Week Due | Proportion of Total Assessment |
|---|---|----------|--------------------------------|
| 1 | <i>Ground floor and first floor working drawing plan with study the structure and axis</i>                    | 2        | 5%                             |
| 2 | <i>Foundation and beams plan and two sections in foundation</i>   | 3        | 5%                             |
| 3 | <i>reflected Ceiling plan and Flooring plan</i>   | 4        | 5%                             |
|   | <i>Two Sections scale 1:100</i>   | 5        | 5%                             |
|   | <i>Stair section scale 1:20 and details</i>   | 6        | 5%                             |
|   | <i>Two elevations scale 1:100</i>   | 7        | 5%                             |
| 4 | <i>Midterm<br/>Two elevations scale 1:100</i>   | 8        | 20%                            |
| 8 | <i>water supply system Plans for all levels, scale 1:100<br/>electrical plans for all levels, scale 1:100</i> | 10       | 5%                             |
|   | <i>Site plan, scale :1:200</i>  | 13       | 5%                             |
| 9 | <i>Final exam</i>   | 16       | 40%                            |

#### D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

*Office hours are offered to students, 10 office hours per week dedicated to students. Part of this office hours is academic advising and the other part is for counseling in any difficulties in the course. Office hours are posted on the office door.*

*Types of feedback and consultations are proceeded through LMS and emails as well.*

## E Learning Resources

|   |
|---|
| <p>1. List Required Textbooks</p> <ul style="list-style-type: none"> <li>- Keith, S. <b>Working Drawings Handbook</b>, Architecture Press, Oxford, 1998.</li> <li>- <b>Working Drawings Handbook, Fourth Edition</b> (Paperback), by Keith Styles, Andrew Bichard, 2004</li> <li>- Stitt, F. A. (1999) <b>Construction Specification Portable Handbook</b>, N.Y McGraw Hill</li> <li>- The Professional Practice of Architectural Working Drawings, Sep 25, 2017, by Osamu A. Wakita and Nagy R. Bakhoun</li> <li>- Architectural Working Drawings 3rd Edition, by Ralph W. Liebing October 22, 2016</li> </ul> |
| <p>2. List Essential References Materials (Journals, Reports, etc.)</p> <p>N/A</p>  |
| <p>3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.</p> <p><a href="https://www.firstinarchitecture.co.uk/where-to-find-construction-details-on-the-web/">https://www.firstinarchitecture.co.uk/where-to-find-construction-details-on-the-web/</a></p>  |
| <p>4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.</p> <p>None</p>   |

## F. Facilities Required

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|--|
| <p>Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access, etc.)</p>   |
| <p>1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)</p> <p><i>Studios with movable drawings tables and adjusted chairs supplied with data show, speakers and sufficient electricity plugs for student's personal laptops.</i></p> |
| <p>2. Technology resources (AV, data show, Smart Board, Software and IT resources needed, etc.)</p> <p><i>Data show in class lecture</i></p>   |
| <p>3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)</p> <p>None</p>   |

## G Course Evaluation and Improvement Processes

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| <p>1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching</p> <p><i>University Student course exist survey online for obtaining Student Feedback on Effectiveness of Teaching</i></p>   |
| <p>2. Other Strategies for Evaluation of Teaching by the Instructor or by the Department</p> <ul style="list-style-type: none"> <li>✓ <i>Class observation or peer review for the instructor to evaluate the teaching strategies</i></li> <li>✓ <i>Informal feedback from students during the term through discussion and conversation.</i></li> </ul> |
| <p>3. Processes for Improvement of Teaching</p> <ul style="list-style-type: none"> <li>✓ <i>Self-development for the instructor in teaching and learning through workshops and research to develop the methods and strategies of teaching</i></li> </ul>   |

- ✓ Collaborative efforts between instructors to update and improve the teaching, specially through coordinating with the related courses that are pre-requisite or co-requisite to make sure that the CLO is delivered and all topics need to be covered are discussed already.
- ✓ Update the textbook each few years to make sure that the course is following the most recent and updated material.

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

- ✓ Exchanging assessment criterial and rubrics of evaluation with our colleagues from other universities to verify the student achievement standards.
- ✓ Reviewing the assessment criteria and rubrics of evaluation with our colleagues within the department.
- ✓ Reviewing the standards of student achievement of the chairperson and dean for verifying and feedback.

5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

- ✓ Reviewing the course file including the results and the surveys through the Quality Assurance committee for periodically revision to decide any actions required or updates needed.
- ✓ Arranging for student work exhibits and inviting different stakeholders and colleagues and peers from different universities as well to take their feedback and know where our students are standing between the similar program in Riyadh.
- ✓ Updating the course activities and tasks each term and connect them more with all co-requisite and related courses and compare results to make sure which types of activities are giving the best achievements.

Name of Course Instructor: Dr. Mayas Ahmad Taha

Signature:  Date Specification Completed: 9-2-2019

Program Coordinator: \_\_\_\_\_

Signature: \_\_\_\_\_ Date Received: \_\_\_\_\_