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Form Title

Achievement File (Portfolio)

Excellence Award in University Education Development (TAJ)

For more information about the award, its conditions, criteria, and timetable, please visit the following link:

<https://www.iau.edu.sa/en/administration/deanships/deanship-of-academic-development/excellence-award-in-university-education-development>

Guidelines for completing the current Achievement File

- This form (Achievement File) is a prerequisite to apply for the award.
- The Achievement File must be completed according to the current template and without adding or deleting any parts in the template.
- **Only the fields colored in “white” should be completed.**
- **The number of words should not exceed 500 words “per field” unless indicated otherwise.**
- **The focus must be on one or a maximum of two practices.**
- **Certificates and evidence must be collected in a separate file as appendices or attached to the end of the current file. The evidence shall be mentioned in the appropriate fields of this file with a specific number (e.g., write: “see samples of students’ work attached in Appendix 5”).**
- The submitted file must be in one language only: Arabic or English.
- Only one of the following font types should be used: Arial or Times New Roman.
- The font size should not exceed 12 points, and the line spacing should not exceed 2 (2 points).
- The “Achievement File” must be submitted in PDF format.
- The file must be complete by the applicant.
- The applicant must choose only one category from the categories specified for the award cycle.
- In conducting evaluations, the Award Committee relies on the conditions and criteria announced for the award.

For Inquiries

Please contact the Deanship of Academic Development (Building D27)

Email Address: ded@iau.edu.sa

Phone: 013-333-2877

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Pledge

I declare that all information and data in this form are correct, and I have respected the intellectual property rights of all parties.

I agree

I understand that if it was announced that I was the winner of the award, and then the award committee decided to cancel the winning due to incorrect information/data, or forged documents that were discovered later, the cancellation will be announced in the same media through which the winning was announced.

I agree

If I am nominated as a winner, I agree to share my "Achievement File" with the academic community to benefit from my experience through the Deanship of Academic Development at Imam Abdulrahman bin Faisal University while preserving my intellectual property rights.

I agree

Summary of the Educational Practice

Thank you for your interest in participation. Please focus on one or a maximum of two practices.

Write a summary of the practice implemented, its importance, main results, impact, and recommendations for improvement.

(Not to exceed 2000 words)

The selected course for this award is called "fire protection in buildings and life safety". This course is one of the elective courses provided by the building engineering department in the college of architecture and planning. The course designed for Understanding the practice of safety design in the different types of buildings. Apart of this, A mixed method of teaching were used to deliver the required knowledge, skills, and values. namely, problem based, and project-based module were embedded in the different stages of the named module. Therefore, the course content and assessments were designed to align these teaching approaches in cooperation with a consultation engineering company.

During the problem-based portion of the exercise, groups engaged in open discussion to identify issues with actual structures and propose methods to enhance their safety. The ability of students to comprehend concepts is assessed through written examinations. During the construction of several course levels, the safety design technique and all essential requirements, such as the Saudi Building Code 801, the NFPA, and the IBC, were adhered to. Therefore, the design challenge must be completed for students to practice using codes to evaluate both their group and individual abilities.

For this assignment, students were required to redesign one of their previous building designs in conformance with national and international fire regulations. Please submit revised group projects alongside combined documents illustrating the various design phases. In addition, the selected engineering company will evaluate every piece of work presented in public seminars. Consequently, the revised work will be included in the project bundle alongside the finalized poster for the college's annual international civil defense day display. In addition, it linked market practitioners with specialists in other disciplines. The

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students discovered four apprenticeship opportunities during the summer; eight were employed by the company that sheltered them after graduation.

The study first enhanced students' conversational abilities. Additionally, it linked market specialists with outside experts. Students discovered four summer internship opportunities, and the housed company hired eight after graduation.

What are the novelty and innovation aspects of this practice in general?

Instructors and engineering firm experts will evaluate the subsequent practice in the designated course.

1. Idea

Thank you for your interest in participation. Please focus on one or a maximum of two practices.

Problem(s)

- Lack of interaction with regional engineering firms
- Enhance students' soft skills

Solution(s)

- 1- Share course assignments with a consulting office for engineering.
- 2- The inquiry course is taught using a combination of traditional lectures and creative classes.

Applied Strategies (Practices)

Students can engage with subject matter experts using problem-based and project-based module strategies evaluated by the identified engineering firm.

Pedagogical basis for applied strategies (practices)

- Improving group collaboration and leadership skills
- Preparing senior students for the job market and exploring decision-making in practice

College

Architecture & Planning

Academic Program

Building Engineering

Academic Year

5th year

Course Title

Fire Protection and Life Safety

Course Code

BSTC-585

Language of instruction

English

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Lesson Title(s)
1- Introduction to Fire Protection & Life Safety 2- Classification of Fire, Hazards, and Fire Code 3- Passive Fire Protection 4- Active Fire Protection 5- Fire Safety Topics in Practice: Part I 6- Mean of egress 7- Fire Safety Topics in Practice: Part II 8- Site Design for Fire Safety Requirements
Number of instructors or assistants in teaching the course
1
Student level (example: Fourth Year)
4 th & 5 th year students
Number of students (Direct beneficiaries)
15
Participating entities from and outside the university (if any)
Saudi Aramco – ACKAD Consultant company
Duration of implementation
4 weeks
What are the novelty and innovation aspects of the idea/solution? -If any-
Sharing the course management with external expertise

2. Academic and professional qualifications

Have you ever attended training programs on active learning? (Yes or No)
 If yes, please write the title and duration for each training program, and then attach the relevant certificates/evidence (maximum of 10 training programs only)

No

What are the resources (scientific and professional) that benefited/informed the active learning practices you have implemented (maximum of 10 resources)?

N/A

3. Implementation

Identify the Graduate Attributes intended to be enhanced.

PGAs1.

Update the knowledge of the latest concepts and applications of sustainable and high-performance building techniques.

PGAs2.

We are acquiring analytical and design skills to address actual challenges in the construction industry.

PGAs5.

Excellent interpersonal and decision-making skills.

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What teaching methods and activities were used (within practice/strategy) to enhance each Graduate Attribute mentioned above?

- Group work project
- Solving problem tutorials for safety design (real case buildings)
- Video conference discussion with safety engineering from the market

Identify the intended learning outcomes, and the type of each learning outcome (knowledge, skills, values).

1- Knowledge:

- 1.1 Explore the different international and local fire codes (Saudi Fire Code SBC 801) related to the building design.
- 1.2 Understanding the practice of safety design in the different types of buildings.
- 1.3 Considering the behavior of different construction materials and their application in fire safety design.

2- Skills:

- 2.1 Apply the gained knowledge in determining the different causes of fire incidents.
- 2.2 Understanding and analyzing firefighting system design and maintenance requirements.
- 2.3 Develop advanced skills to analyze buildings in the early and later stages of design and operation based on Saudi Fire Code SBC 801.

3-Values, autonomy, and responsibility:

- 3.1 Demonstrate interpersonal skills through group study, assignments, and discussion.

What teaching methods and activities were used (within practice/strategy) to achieve each learning outcome?

- Group work project
- Solving problem tutorials for safety design (actual case buildings)
- Video conference discussion with safety engineering from the market

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What teaching methods and activities are used (within practice/strategy) to increase student engagement in the learning process?

- Arranging technical workshops to discuss design problems and solve them.
- Hosting different professionals from the engineering field to share his experience

What teaching methods and activities are used (within practice/strategy) to meet learners' needs and enable different learning styles?

- Project method
- Facilitator method
- Tutorial method

What educational technologies are used (within practice/strategy)? -If any-

- Live Video conference technology (for shared classes with external experts)
- Using Smartboards (for analytical and solving problem activities)

What are the novelty and innovation aspects of the teaching methods and activities? -If any-

- Involving external expertise in course supervision and assessments
- Encouraging students to discover training opportunities in the field and take related professional courses in safety design for buildings

4. Results and verification

What are the most significant results achieved through current practice?

This course becomes a channel between the host program and the engineering companies in terms of academic support, training opportunities, and direct employment

What methods are used to assess the achievement of learning outcomes?

- Formative Assessments for project phase submission's part
- Summative assessments for the theoretical and principle's part

What methods are used to assess the effectiveness of the practice?

- Criteria – attributes of effective teaching.
- Evidence – documentation of teaching considered in the review process.
- Standards – expectations of quality and quantity.

What are the novelty and innovation aspects of assessment and evaluation methods? -If any-

Sharing course supervision and assessments with engineering companies

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5. Review and Improvement

What are the review and improvement procedures implemented to enhance the practice?

Updating the course report with any opportunities to develop the practice and enhance the quality of the given knowledge.

Have you conducted a peer observation -and/or- peer evaluation to improve the practice? (Yes or No)

If yes, please attach evidence (maximum of 10 documents)

Yes, short written quizzes were suggested to assess the students' skills in the course's principles and theoretical part.

***Please See Evidence number 7.1.1 & 7.1.2**

Have you measured student satisfaction with the practice? (Yes or No)

If yes, please attach the relevant evidence (maximum of 10 documents)

Yes, by using Students' Survey on LECTURING SKILLS (SLS form) by IAU Estibanah portal

***Please See Evidence number 7.2**

Have you conducted action research on the practice? (Yes or No)

If yes, please attach the relevant evidence (maximum of 10 documents)

No

Are there any "strong-relevant" research or studies that can be relied upon to improve this practice? (Yes or No)

If yes, please write the titles of the research and studies using APA referencing style (maximum of 10 documents)

No

What are the novelty and innovation aspects of review and improvement procedures? -If any-

N/A

6. Impact

What is the impact of the current practice?

The named course allows students to build close relations with market stockholders that help them find field training and employment after graduation.

Have you shared the practice with the academic community (colleagues, department, college, university, other)? (Yes or No)

If yes, please explain the methods through which you have shared with the academic community, attaching relevant evidence (maximum of 10 documents)

No, this file is part of my sharing plan for this practice inshallah.

Would you like to participate in the "Active Learning Forum" at the annual University Teaching and Learning Exhibition TLEX23? (Yes or No)

Yes, this will support me in sharing this practice with the entire academic community.

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Attach some outstanding “authentic” examples of students’ work achieved from the current practice, if any.
Please write a brief description of each work, and attach the relevant evidence as appendices (maximum of 10 forms)

***Please See Evidence number 7.3**

Attach videos and/or photos that reflect the practice or work of students, if any.
Please write a brief description of each work, and attach the relevant evidence as appendices (maximum of 10 files. Videos shall be attached as links –“unlisted” YouTube links are preferred).

***Please See Evidence number 7.4**

7. Evidence/Attachments

You can attach the appendices (evidence) on the next pages.

- 7.1 Evidence/Attachments (peer evaluation to improve the practice) ***
- 7.2 (student satisfaction with the practice SSLS survey) ***
- 7.3 (examples of students’ work achieved from the Practice) ***
- 7.4 (The practice or work of student’s reflection) ***
- 7.5 (supportive document 1: the course final exam cancelation process) ***
- 7.6 (supportive document 2: community service provided by the named course) ***

*** All labeled appendix above are attached on the shared folder linked.**