Yarmouk University

Faculty of Educational Sciences

Ph.D. in Science Curriculum and Instruction

Program Overview

The doctoral program in science curriculum and instruction aims to prepare specialists and researchers who possess deep knowledge and high competence in designing and developing science curricula and innovating effective teaching methods. The program focuses on enhancing students' research and theoretical capabilities and enables them to use the latest techniques and technology in science education. Through comprehensive courses covering curriculum theory, advanced teaching methods, and applications of technology in education, the program seeks to improve the quality of science education. This program provides graduates with job opportunities in academic circles, including

developing curricula, teaching in schools and universities, educational consulting, and preparing training programs for teachers, all of which contribute to raising the level of scientific education and achieving sustainable development in society.

Program Vision

Leadership and creativity by preparing specialists in the field of science curricula and teaching methods.

Program Mission

The program aims to cultivate graduates who can function effectively in multicultural societies, while also fostering their cognitive and professional growth, enabling them to conduct and publish research in their areas of expertise and communicate effectively across all platforms. Educational leaders and qualified professional and research cadres in the field of curricula and science teaching methods are being prepared to meet the needs of educational institutions at both local and Arab levels.

Program Objectives

The doctoral program in science curriculum and instruction aims to:

- Enabling graduates with specialized knowledge and skills in the field of science curricula and teaching methods.
- Providing creative scientific research that contributes to solving problems related to science curricula and teaching methods.
- Meeting the community's needs for specialists in the field of curricula and science teaching methods.
- Providing distinguished educational and advisory services to beneficiaries.

Program Outcomes

After completing his studies in the PhD program in Science Curriculum and Instruction, the student is expected to be able to:

- Using and generating teaching models and evaluation strategies based on modern educational theories.
- Analyzing and developing science curricula in light of global trends and technological innovations in the field of educational technology.

• Using scientific research skills to produce distinguished applied educational research
• Generating ideas to solve problems and providing educational consultations on science curricula and methods of teaching and evaluating them.
• Represents scientific values and trends in his professional and research practices.
• Criticizing and evaluating ideas, finding appropriate alternatives, and independence in making judgements.
• Employing modern technologies in science curricula and teaching methods.

Program Importance

The program's importance stems from its ability to cover a wide range of sciences and topics, as well as its flexibility in providing opportunities for students to enhance their self-development. This is achieved by immersing learners in the educational process and making them the focal point of the educational process. It also contributes to helping students conduct research of various kinds, due to the nature of the scientific content presented to students. The nature of the educational topics it includes helps learners diversify the research presented in terms of quantity and quality. Due to the close connection between the subjects, it is also crucial to assist learners in applying the knowledge they have acquired in their field of specialization to novel situations. Science and real life.

Targeted Groups and Accepted Majors

Applicants for admission to this program are required to:

1. He must have a bachelor's degree in one of the natural, medical, or agricultural sciences, or a teacher in the field of general sciences, engineering specializations, or any specialization deemed appropriate by the Graduate Studies Committee in the Department of Curriculum and Teaching Methods.
2. He must have a master's degree in science curricula and teaching methods, natural sciences, or general curricula, provided that the subject of the master's thesis is in the specialty. Master's degree holders in relevant medical and agricultural specializations may be considered for admission.
3. Passing the foreign language exam in accordance with the decisions of the Higher Education Council.
4. Any other conditions approved by the relevant committees and councils.

Job Areas

- Universities.
- Ministry of Education: teachers, supervisors, trainers, research and development.
- Research centers in formal and informal institutions.

Credit Hours and Tuition Fees

The program requires students to successfully complete (54) credit hours.

The cost per credit hour is:

For Jordanian students is 100 Jordanian dinars.

For non-Jordanian students is 350 US dollars.

Study Plan Overview

The program requires students to complete (36) credit hours from courses at the doc-toral level (700 level), in addition to any additional courses deemed necessary by the department that were not covered in the student's previous studies. Additionally, stu-dents are required to pass a comprehensive examination after completing the courses. Furthermore, students are required to register for the thesis, comprising (18) credit hours, during which they conduct field research, prepare the thesis, and successfully defend it. Before defending their thesis, students must also pass the acceptance for publication of a research paper in one of the university's peer-reviewed and approved journals, derived from their theses.

Contact Information

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