

Proposed Domains and Priorities for Research in Education, Year 2023 (1402)

1-Domain of Curriculum Planning

- Educational design
- Educational needs assessment
- Competency-based education
- Educational strategies
- Inter professional education
- Hidden curriculum
- Curriculum management
- Responsive education

Research Priorities

- Identifying the hidden curriculum of Ardabil University of Medical Sciences
- Study of educational needs of faculty members at Ardabil University of Medical Sciences
- Educational needs of medical students in the field of complementary and alternative medicine
- Degree of adaptation of the educational program to professional needs
- Study of quality and quantity of educational programs
- Qualitative and quantitative factors affecting the educational performance of faculty members
- Design of new educational curricula
- Evaluation of the degree of adaptation of educational programs to the educational objectives of the discipline and department
- Development and revision of educational programs based on skill needs required in the workplace
- Evaluation of professional competence of graduates

2-Domain of Student Assessment

- Written and oral exams
- Practical and clinical exams
- Test analysis and quality assurance

Research Priorities

- Development of a codified program for monitoring the quality of exams held at the university

- Quantitative and qualitative analysis of non-multiple-choice exams of educational departments of the university
- Standardization of new assessment methods
- Implementation of portfolio for use in clinical education
- Use of standardized clinical exams in student evaluation
- Comprehensive evaluation system

3-Domain of Program and Faculty Evaluation

- Evaluation system
- Evaluation methods
- Evaluation approaches
- Accreditation
- Meta-evaluation

Research Priorities

- Evaluation of the quality of general medical education at the university based on national and international standards
- Evaluation of the educational curriculum of the basic sciences stage using needs assessment from students
- Revision of qualitative evaluation processes of faculty members' performance in the field of education
- Evaluation of the effectiveness of new educational methods in evaluating residents, interns, and trainees
- Use of new evaluation methods in evaluating specialized residents in order to improve the quality of internal evaluations and the validity and reliability of these exams
- Evaluation of professors by students and its effectiveness in improving the educational process
- Evaluation of educational quality in basic and clinical educational departments

4-Domain of Educational Management and Leadership

- Educational policymaking
- Characteristics and skills of educational leaders
- Use of opinions of community health stakeholders in promoting medical education
- Challenges and problems of faculty members in medical education
- Solutions for creating motivation in faculty members and students

- Organizational factors affecting the competence of clinical instructors
- Study of the motivation and encouragement system in education
- Change leadership
- Management and empowerment of human resources
- Education economics

Research Priorities

- Study of effective methods in improving the educational level by professors
- Evaluation of programs and effective methods in the growth and development of exceptional talents students
- Design, implementation, and evaluation of a short-term course on medical and professional ethics for faculty members of the university
- Development of a community-based needs assessment model for curriculum in medical education with emphasis on outcome-based education
- Compliance with World Federation for Medical Education (WFME) standards
- Estimation of direct and indirect costs of per capita education in different disciplines and levels
- Estimation of the costs of training medical students and providing solutions to reduce costs

5-Domain of Student Counseling and Support

- Student counseling
- Student affairs services
- Mentoring
- University educational atmosphere
- Student satisfaction
- Quality of educational services

Research Priorities

- Role of educational and welfare facilities of students in educational quality
- Role of advisor professors and student counseling in academic progress
- Structural evaluation of educational environments (physical space, facilities, and equipment)
- Quality and quantity of providing welfare services to students and professors in clinical environments

6-Domain of Teaching-Learning

- Learning arenas
- Methods and models
- Motivation, attitude, and learning styles
- Learning theories
- Teacher and learner
- Ethics in learning environments
- Evidence-based education
- Peer learning

Research Priorities

- Design, implementation, and evaluation of a course on critical thinking, clinical reasoning, and evidence-based medicine for students
- Design, implementation, and evaluation of active teaching methods (team-based learning, problem-based learning, small group learning, e-learning, peer learning, etc.) in presenting the desired educational content in accordance with educational objectives
- Medical ethics in research and education
- Pathology of educational activities (teaching and learning of professors and students)
- Appropriateness of teaching methods with learning objectives designed for each course and discipline
- Study of the effect of educational interventions in improving the quality of education
- Study of obstacles and challenges of implementing new teaching models at the university
- Measurement of motivation of students and faculty members
- Learning styles in medical sciences students
- Study of educational motivation in the teaching-learning process (professors, students, and residents)
- Pathology of clinical education and evaluation of clinical skills of graduates working in clinical fields

- Solutions for creating effective educational interactions between medical and paramedical professors in clinical environments
- Evaluation and study of the gap between theoretical and practical educational units

7-Domains of Electronic Learning

- Content in e-learning
- Electronic learning systems
- New approaches to e-learning
- Mobile learning

Research Priorities

- Faculty members' attitude toward e-learning
- Level of electronic literacy of students
- Study of obstacles and challenges of virtual education at the university level
- Design, presentation, and evaluation of an effective e-learning model in medical sciences
- Design of appropriate teaching methods and techniques in e-learning environments
- Design of quality assurance models in e-learning in medical sciences
- Design of various methods of student evaluation in e-learning environments
- Localization of processes related to e-learning
- Evaluation of online exams and study of existing challenges in holding exams from the perspective of students, professors, and educational services staff
- Ethics, professionalism, and intellectual property in e-learning
- Virtual education and cost-effectiveness

8-Modern Educational Technologies

Application of Modern Methods and Technologies in Student Education

Research Priorities

- Application of artificial intelligence in education

- Simulation in education
- Augmented reality and virtual reality in education
- New educational systems
- Mobile learning
- Online educational platforms
- Educational robots
- Gamification