

Ministry of Higher Education and Scientific research



Department of Physics

College of Education

University of Salahaddin/ Hawler

Subject: Measurement and Evaluation

Course Book –Third Year Student

Lecturer's name: Prof.Dr. Waad Mohammed

Najat Sabri

Academic Year: 2023/2024

Second Semester

Course Book

1. Course name	Measurement & Evaluation
2. Lecturer in charge	Prof. Dr. Waad Mohammed Najat Sabri
3. Department/ College	physics / Education
4. Contact	e-mail:waad.najat@su.edu.krd Tel: 07504492917
5. Time (in hours) per week	Theory: 3 Hours Practical
6. Office hours	18 hrs.
7. Course code	EdPh1306
8. Teacher's academic profile	BSC. in Physics MSc in Methods of Physics Teaching PhD in Methods of Physics Teaching
9. Keywords	Measurement, Evaluation
10. Course overview ;	<p>This course is part of the requirements for preparing the teacher to carry out the teaching process, how to prepare questions, conduct exams, and provide feedback to students after taking each exam to achieve general and specific teaching goals in the cognitive, emotional, and skill fields. The course also includes introducing students to the types of essay questions and objective questions, such as true-false questions, multiple choice, matching, filling in the blanks, classification, and reordering. Students are also taught how to prepare achievement tests, how to analyze items such as, difficulty, and discriminatory power of the items, and to find effective incorrect alternatives to multiple-choice questions. . The course also includes how to measure mental abilities, such as measuring students' intelligence according to international standards.</p>

11. Course objective: The students able to:

- 1- Definition concepts of measurement & evaluation.
- 2- Known Kinds of Measurements and Evaluations.
- 3- Clarify advantage and disadvantage of each kinds of questions
- 4- Analyze the items of tests to find difficulty and easley, discrimination power, effectiveness of error response for multiple questions.
- 5- Describe tendency measurement mean, median, mode.
- 6- Interpretate Scattering Measurement Range, Standard scores, standard deviation.
- 7- Treatment errors in measurement, systematic error, random ally error.
- 8- Using intelligence scales to determine degree of intelligence for the students.

12. Student's obligation; .

- 1- Attendance at the lectures,
- 2- Participation in classroom activities.
- 3- Preparation of reports.
- 4- Conducting midterm and final exams.

13. Forms of teaching:

- 1- Lecture Method.
- 2- Discussion Method.
- 3- Reciprocal Teaching.

4- Cooperative Learning.

16. Course Reading List and References:

- 1- Lindfel, Measurement and Evaluation Technique in Education and Learning, Franklin Press, Newyork, 1998.
- 2- Zakaria, Thaher & etal. Principles of Measurement and Evaluation in Education, Cultural House publisher. Amman, 1999.
- 3- Alshebly, Ibrahim & etal. Evaluation of Teaching Process, Mustansria University. Baghdad, 2005

Internet sites

- 4- www.htm measurement&evaluation.com
- 5- www.htm educational evaluation.com

17. The Topics:

- 1- Measurement and Evaluation concepts.
- 2- Importance of Measurement and Evaluation concepts
- 3- Differences between both of Measurement and Evaluation.
- 4- Application fields for Measurement and Evaluation.
- 5- Kinds of Evaluations:
A-Initial Evaluation. B-Diagnostic Evaluation.
C-Formative Evaluation. D- Summative Evaluation.
- 5- Principles of Measurement and Evaluation.
- 6- Tests Methods:
A- Tests Techniques:

<p>a- Essay Test.</p> <p>b- Objectivity Tests:</p> <p>b-1- True and False Questions. b-2- Multiple Choice Questions. b-3- Completion Questions.</p> <p>b-4- Matching Questions</p> <p>b-5- Classification Questions.</p> <p>b-6- Re arrangement Questions.</p> <p>c- Oral Tests.</p> <p>d- Performance Tests.</p> <p>B- Non Test Techniques:</p> <p>a- Observation b- Interview</p> <p>c-discussion d- Report preparation</p> <p>e- Questionnaire f- Scales</p> <p>7- Methods of decreasing estimation in objectivity test by:</p> <p>A- Correct the errors</p> <p>B- Using estimation formula</p> <p>8- Analyses items of objectivity tests involve the following:</p> <p>a- Easily and difficulty coefficient</p> <p>b- Discrimination power</p> <p>c- Effectiveness of error response</p> <p>9- Intelligence scales</p> <p>10- Stanford- Bineah scale for intelligence.</p> <p>11- Kinds of errors in measurement A- sy systematic error B- Random ally error/</p>	
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<p>12- Central tendency measurement, Mean, Median and Mode.</p> <p>13- Dispersion measurement</p>	
<p>19. Examinations:</p> <p style="text-align: center;">The Midterm exams: 25%</p> <p style="text-align: center;">Classroom participation and assignments: 10%</p> <p style="text-align: center;">Attendance 5% Final exam: 60% Total Mark: 100</p>	
<p>20. Extra notes: Not applicable</p>	
<p>21. Peer review پیداچوونہوہی ھاوہل</p> <p>This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section. <i>(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).</i></p> <p>ئەم کۆرسبووکە دەبێت لەلایەن ھاوہلیکی ئەکادیمیەوہ سەیر بکەیت و ناوہرۆکی بابەتەکانی کۆرسەکە پەسەند بکات و جەند ووشەیک بنووسیت لەسەر شیاوی ناوہرۆکی کۆرسەکە و واژووی لەسەر بکات. ھاوہل ئەو کەسەیکە زانیاری ھەبێت لەسەر کۆرسەکە و دەبێت پلەیی زانستی لە مامۆستا کەمتر نەبێت.</p>	

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