



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF EDUCATION
UNIVERSITY DRAFT EXAMINATION FOR BACHELOR OF EDUCATION
2017/2018 ACADEMIC YEAR Y1 S2**

KISUMU CAMPUS

COURSE CODE: PSY 410

COURSE TITLE: TESTS & MEASUREMENTS

EXAM VENUE:

DATE:

MODE:

TIME: 2 HOURS

EXAMINATION SESSION:

Instructions:

1. Answer question 1 (Compulsory) and ANY other 2 questions.
2. Candidates are advised not to write on the question paper.

Candidates **MUST** hand in their answer booklets to the invigilator while in the examination room.

Question One

- a) Define the following terms
 - i) Standard deviation (1mark)
 - ii) Power test (1mark)
 - iii) Reliability (1mark)
 - iv) Variance (1mark)
- b) Identify four factors affecting validity of a test (4 mark)
- c) Analyze six functions of evaluation and assessment (6 mark)
- d) In a class of 8 students, the following scores were achieved in a mathematics and physics examination.

Student No	1	2	3	4	5	6	7	8
Marks in Physics	66	70	25	56	51	61	41	30
Marks in Maths	58	56	39	59	65	58	38	37

From the above data

- i) Compute the Pearson Product Moment Correlation coefficient for the two sets of scores (12marks)
- ii) Interpret the r scores (1mark)
- iii) Explain any three levels of measurement (3marks)

Question Two

- a) Explain how test- retest is used to determine reliability of a given test (10marks)
- b) List and explain any four types of validity (8marks)
- c) In a given test, the reliability of a half test was 0.6, what is the reliability of the full test (2marks)

Question Four

- a) Discuss five ethical practices which may enhance the quality of examinations in the public universities in Kenya (10marks)
- b) Give a critical analysis of tests used in evaluation and assessment of learners (10marks)

Question Four

- a) Discuss the four main types of tests (8marks)
- b) List and explain six steps involved in test development (12marks)

Question five

Discuss the history of measurement and evaluation in the 19th century

(20marks)



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COURSE TITLE: EDUCATIONAL TESTS AND MEASUREMENT

YEAR 4 SEMESTER 1 SCHOOL BASED (AUGUST-DECEMBER, 2017)

KISUMU CAMPUS

LECTURER: Owino Joshua

0722-421696

COURSE OUTLINE

Contact Hours: 42

Credit Hours: 3

Prerequisite: None

Course Purpose

The purpose of the course is to introduce students to concepts of measurement, its historical and relevance in the education system and equip the learners with principles and practices for classroom assessment and evaluation perspectives of Human Growth and Development.

Expected Learning Outcomes

By the end of the course students will be able to:

1. Describe the History development of measurement and evaluation
2. Explain the role of measurement and evaluation in the education system
3. Apply the Theories of evaluation and measurement in the classroom situation
4. Apply the domains of educational objectives in developing objectives and tests
5. Construct and use different instruments of evaluation
6. Apply the basic statistical methods of evaluation and measurements for classroom testing and in research

Course Content

1. Overview of Measurement and evaluation
 - i. Definition and purposes of Measurement and evaluation
 - ii. Importance and functions of tests in Education
2. Educational objectives
 - i. Educational objectives
 - ii. Bloom's Taxonomy of educational objectives
 - a. The affective domain
 - b. The psychomotor domain
 - c. The cognitive domain
3. Tests
 - i. Types of tests

- ii. Tests dev/construction
- iii. The administration and scoring tests
- iv. Interpreting tests scores
- 4. Quality of tests
 - i. Reliability
 - ii. Validity
- 5. Item analysis
- 6. Scaling theory
- 7. Basic statistical methods of evaluation and measurement
 - i. Measures of central tendency
 - ii. Measures of dispersion
 - iii. Correlation
 - iv. Regression

Teaching Methods

- (a) Lectures
- (b) Group activities
- (c) Individual presentations
- (d) Tutorials

Teaching Materials

- (a) Over-head projectors
- (b) VCD
- (c) Chalk/whiteboards

Assessment Methods

- (a) Continuous Assessment Tests- 30%
- (b) End of Semester Examination- 70%,
- (c) TOTAL= 100%