JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY

4TH YEAR 2ND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS AND SCIENCE)

YEAR 4 SEMESTER 2 REGULAR (SEPTEMBER-DECEMBER, 2017)

KISUMU CAMPUS- REGULAR

COURSE CODE: PSY 410

COURSE TITLE: TESTS AND MEASUREMENT

TIME: 2 HOURS **DECEMBER, 2017.**

INSTRUCTIONS

Answer Question ONE (Compulsory) and any other TWO questions

Question One

a) Define the following terms
   i) Validity (1marks)
   ii) Power test (1marks)
   iii) Instructional objectives (1marks)
   iv) Variance (1marks)

b) State four factors affecting validity of a test (4 marks)

c) Briefly explain six functions of evaluation and assessment (6 marks)

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 x	66	70	25	56	51	61	41	30
Marks in Maths y	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 teachers should observe in the management of examinations (10marks)

b) Give a critical analysis of tests used in evaluation and assessment of learners (10marks)

Question Five

a) Discuss four types of tests (8marks)

b) List and explain six steps involved in test development (12marks)

Question Six

Discuss item response theory of measurement (20marks)

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COURSE CODE: PSY 410

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%