

SYLLABUS

NAME OF SUBJECT	: TECHNOLOGY AND EDUCATIONAL TEORY
KODE	: MAT-2124
CREDIT	: 2 SKS
GRADE	: III
DEPARTMENT	: MATHEMATICS EDUCATION
TEACHER	: 1. Dr. M. Lasut, MS 2. Navel O. Mangelep, M.Pd

I. GOAL :

To understand mathematics instruction media and their use, can develop and use mathematics instruction media, software and hardware.

II. DESCRIPTION:

Concept and kinds of mathematics instruction media, developing and using mathematics instruction media, software and hardware..

III. REFERENCES

1. Nievergelt, Jay. 1986. *Interactive Computer Program for Education Philosophy, Techniques and Examples*. Addison-Wesley Publishing Company.
2. Lathrop, Ann. 1983. *Courseware in the Classroom. Selecting, Organizing and Using Educational Software*.
3. Sharon, etl. 2008. *Intruactional Technology and Media for Learning*. Pearson : Ohio

IV. LEARNING STRATEGY:

1. Dialogue
2. Discussion
3. Assignment

V. TOOLS : LCD, Note Book, Internet

VI. EVALUATION:

Independent task, Task Structured, Mid-Semester Exam (UTS), End Semester Examination (UAS)

VII. TOPICS

Meeting	Topics	Method
1St	Introduction	Dialogue
2nd	Learning Foundations : The Pervasiveness of indtruactional technology ; technology, media, and learning	Discussion
3rd	Learning Foundations : Instructional Systems	Discussion
4th	Learning Foundations : The Assure Model: Creating the learning experience	Discussion
5th	Learning Foundations : Visual Principles	Discussion
6th	Digital Envirenments : Computers	Discussion
7th	Digital Envirenments : Multimedia	Discussion
8th	Digital Envirenments : Distance Education	Discussion
9th	Middle Examination	

10th	Digital Environments : Online learning	Dialogue and Discussion
11th	Traditional Media : Instructional Materials and Displays	Discussion
12th	Traditional Media : Visuals	Discussion
13th	Traditional Media : Audio	Discussion
14th	Traditional Media : Video	Discussion
15th	Trend in Technology and Media	Discussion
16th	Final Test	

Evaluation Process and Learning Outcomes:

Aspects - aspects are assessed:

1. Structured task (TS) with a weight of 2.
2. Independent Task (TM) with a weight of 2.
3. Mid-Semester Exam (MS) with a weight of 3.
4. End of Semester Exam (AS) with a weight of 3.

With the end goal should follow the formula:

$$NA = ((2 * TS) + (2 * TM) + (3 * MS) + (3 * AS)) / 10$$

With the following classifications:

- A : 3.60 - 4.00
- B : 3.00 - 3.59
- C : 2.00 - 2.99
- D : 1.00 - 1.99
- E : 0.00 - 0.99

Tondano, August 2013
Team Teaching ,

1. Dr. M. Lasut, MS
2. Navel O. Mangelep, M.Pd