



UNIVERSITAS NEGERI YOGYAKARTA
FAKULTAS MIPA

SILABI

FRM/FMIPA/063-01
18 Februari 2011

Fakultas	: Matematika dan Ilmu Pengetahuan Alam
Program Studi	: Pendidikan Matematika
Mata Kuliah/Kode	: Bahasa Inggris Matematika
Jumlah SKS	: Teori=2; Praktek=0
Semester	: 3
Mata Kuliah Prasyarat/kode	: Bahasa Inggris
Dosen	: Endah Retnowati, Ph.D.

I. Course description

During the lecture, four main literacy skills in English: reading, writing, listening and speaking, are covered. These are focused on mathematics context. Selected articles or research publications on mathematics are used to practice not only pronouncing symbols in English but effective reading and comprehension. Writing tasks include short essays on facts (i.e., graphs, charts, tables), mathematics word problems and the solutions, and review of mathematics research results. Listening and speaking skills are integrated during discussions on reading or writing tasks. These skills are particularly facilitated through presentations about mathematics theorist and their prominent theory to communicate ideas, raise questions and respond to other comments.

II. Standard of Competence

This lecture contains an advanced English uses for Mathematics students. By the end of the lecture, it is expected that students achieve higher level of reading, writing, listening and speaking skills specifically to communicate their comprehension written or verbally within mathematics contexts.

Basic competencies can be found in the table of activities planning below.



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III. Activity planning

Meeting	Basic Competency	Main material	Lecture strategy	Assessment aspect
1	Understand the study contract Fluently express daily conversations	Syllabus and contract Daily conversations	Classroom discussion Prior-knowledge test Practice speaking	Students participation
2	Explain the meaning of to-be-read articles	Effective reading and comprehension on articles	Every individual reads an assigned paragraph for the whole classroom then articulate it using own words Completing questions on the reading	Pronunciation, generated meaning, completed questions Listening to the other when reading
3.	Explain the meaning of to-be-read articles	Effective reading and comprehension on articles	Every individual reads an assigned paragraph for the whole classroom then articulate it using own words Completing questions on the reading	Pronunciation, generated meaning, completed questions Listening to the other when reading
4.	Perform short essays on facts (i.e., charts, tables, graphs)	Writing short essays on facts (i.e., charts, tables, graphs)	Individual work and peer assessment Writing homework	Attention on essay writing strategy, completed writing task
5	Perform various mathematical word problems and the solutions	Writing mathematics word problems and the solutions	Individual work on the writing and discussion with peers	Mathematics word problems based on algebra, arithmetics, geometry and statistics (or



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				combined) and the solutions
6	Perform various mathematical word problems and the solutions	Writing mathematics word problems and the solutions	Individual work on the writing and discussion with peers	Mathematics word problems based on algebra, arithmetics, geometry and statistics (or combined) and the solutions
7	Explain the meaning of to-be-read mathematics texts	Effective reading and comprehension on mathematics texts	Every individual reads an assigned paragraph for the whole classroom then articulate it using own words Completing questions on the reading	Pronunciation, generated meaning, completed questions Listening to the other when reading
8	Explain the meaning of to-be-read mathematics texts	Effective reading and comprehension on mathematics texts	Every individual reads an assigned paragraph for the whole classroom then articulate it using own words Completing questions on the reading	Pronunciation, generated meaning, completed questions Listening to the other when reading
9		Mid-term exam		Reading comprehension Writing short essay
10	Perform 250 word essay of a critical review of an opinion	Writing critical review of an opinion	Individual work and peer assessment Writing homework	Attention on essay writing strategy, completed writing task
11	Perform 250 word essay of a critical review of an opinion	Writing critical review of an opinion	Individual work and peer assessment Writing homework	Attention on essay writing strategy, completed writing task
12	Write review of mathematics	Writing review of	Individual work and peer assessment	Attention on essay writing



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	research result	mathematics research result	Writing homework	strategy, completed writing task
13.	Write review of mathematics research result	Writing critical review of mathematics research result	Individual work and peer assessment Writing homework	Attention on essay writing strategy, completed writing task
14	Express idea, raise questions, and respond to comments	Talk about mathematics theorists and their prominent theory	Small group work preparing the talk	Expressing idea, raising question and responding comments
15	Express idea, raise questions, and respond to comments	Talk about mathematics theorists and their prominent theory	Small group presentations and whole classroom discussions	Expressing idea, raising question and responding comments
16	Express idea, raise questions, and respond to comments	Talk about mathematics theorists and their prominent theory	Small group presentations and whole classroom discussions	Expressing idea, raising question and responding comments

End of term exam will be scheduled by the Faculty.



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IV References

There is no main references. Students are encouraged to read:
Mathematics handbooks or textbooks in English.
International journal articles on mathematics education.
English-English dictionary.
English grammar books.
And any reading, video or recording in English

P3B. 2008. *Classroom english for bilingual instruction*. Yogyakarta: Universitas Negeri Yogyakarta.

Slater, S., Millen, D., & Tyrie, P. (2006). *IELTS on tract: Test practice academic*. Adelaide, South Australia: Language Australia.

V Assessment

No	Component	Weight (%)
1	Classroom participation (complete tasks every meeting and homeworks)	30
2	Presentations	30
3	Mid term test	20
4	End of term test	20
Total		100

Sighted
Ketua Jurusan Pend. Matematika

Yogyakarta, 1 September 2014
Lecturer

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