UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF MATHEMATICS EDUCATION

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Bachelor of Education in Mathematics

Module name:	ICT and Instructional Media for Mathematics
Module level, if applicable:	Undergraduate
Code:	PMA6201
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	1th
Module coordinator:	Kuswari Hernawati, M.Kom.
Lecturer(s):	Kuswari Hernawati, M.Kom.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory course
Teaching format / class hours per week during the semester:	100 minutes lectures and 100 minutes structured activities per week.
Workload:	Total workload is 90.67 hours per semester which consists of 100 minutes lectures, 100 minutes structured activities, and 120 minutes self-study per week for 16 weeks..
Credit points:	2
Prerequisites course(s):	-
Course outcomes:	After taking this course the students have ability to: CO1. Demonstrate collaborative attitude and independence in carrying out individual tasks and group assignments CO2. Mastering the concepts of computer work systems and latest developments in Information Technology

	CO3. Use application programs for documentation application compilersand media presentations
	CO4. Develop applications on numerical calculations by applying syntax and appropriate programming rules to solve mathematical problems.
	CO5. Make a simple program project.
Content:	This course discusses the computer work systems, the use of application programs for documentation application compilers, numerical calculations and media presentations and knowing the latest developments in Information Technology.
Study/examachievements:	CO1: Attitude assessment is carried out at each meeting by observation and / or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.

The final mark will be weight as follow:

No	CO	Assesment Object	Assessment Techniques	Weight
1	CO 2	Presentation	Observation	10%
2	CO 3 and CO 4	a. Individual assignments	Written test	10%
		b. group assignments		10%
		c. MID		25%
		d. Final Exam		30%
3	CO 5	Presentation and Project	Observation	15%
			Total	100%

| Forms of media: | Board, LCD Projector, Laptop/Computer |
| Literature: | 1. Kuswari Hernawati. 2015. Teknologi Informasi dan Komunikasi . Hand Book |

	2. Brookshear, J. Glenn (2007) ,Computer Science, An Overview, New York : Pearson Addison Wesley
	3. Khanna, Rajiv (2008), Basics of Computer Science, New Delhi , New Age International (P) Ltd., Publishers
	4. Dale, Nell and Lewis, John(2002), *Computer science illuminated*, United States of America : Jones and Bartlett Publishers, Inc.
	5. Solomon Negash, Michael E. Whitman, Amy B. Woszczynski , Ken Hoganson, Herbert Mattord (2008), Handbook of Distance Learning for Real-Time and Asynchronous Information Technology Education, United States of America : Information Science Reference
	6. Custom guide(2008), *Computer Basics*: *Student Edition Complete,* Minneapolis, USA, Custom Guide Inc
	7. David S. Metcalf, John M. De Marco (2006), *mLearning: Mobile Learning and Performance in the Palm of Your Hand,* Massachusetts, HRD Press, Inc

PLO and CO mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO1 0	PLO1 1	PLO1 2
CO 1		✓										
CO 2				✓								
CO 3					✓							
CO 4								✓				
CO 5										✓		