UNIVERSITAS NEGERI YOGYAKARTA

POSTGRADUATE PROGRAM
DEPARTMENT OF ELECTRONICS AND INFORMATICS
ENGINEERING EDUCATION

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Master of Education in Electronics and Informatics Engineering   **MODULE HANDBOOK**

Module name:	Multimedia System
Module level,if applicable:	Postgraduate
Code:	PTEI8220
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	2nd
Module coordinator:	Dr. Priyanto, M.Pd.
Lecturer(s):	Dr. Priyanto, M.Pd.
Language:	Bahasa Indonesia
Classification within the curriculum:	Elective course
Teaching format / class Hours per week during the semester:	100 minutes lectures and 160 minutes structured activities per week.
Workload:	Total workload is 96 hours per semester which consists of 100 minutes lectures, 160 minutes structured activities, and 100 minutes self study per week for 16 weeks.
Creditpoints:	2
Prerequisites course(s):	-
Course outcomes:	After taking this course the students have ability to: CO1.Explain the concept of effective communication between communicators (humans and media) and communicants as well as multimedia products with communicants. CO2.Describe the concepts of multimedia, static media, and time-based media. CO3.Develop (plan, create, and present) multimedia, for learning purposes, product promotion, and community service campaigns.

Content:	The Multimedia System Course develops contextual thinking and develops multimedia elements to support the learning process and general purposes. The discussion will begin with the concept of effective communication which is the key to conveying messages from the media built by the communicator to the communicants. The material for this discussion includes effective communication, multimedia design (visual communication, multimedia page design, interface design and usability); static media (text, graphics, photography); time-based media (sound and video recording, time-based editing); models for the design and development of Multimedia projects; and measure the quality and feasibility of multimedia products. This lecture method includes presentations and discussions, scientific studies from international books and journals in the form of individual presentations, and the practice of making multimedia products. The product of this course is a static and time-based media design that has been tested scientifically and can be used to communicate learning concepts, product promotion, and community service campaigns.
Study/exam achievements:	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 therequirements 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: <table><tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td>1</td><td>CO1 CO2 CO3</td><td>Student Work</td><td>Assignment</td><td>50%</td></tr><tr><td>1</td><td>CO1 CO2 CO3</td><td>Student Work</td><td>Final Project</td><td>50%</td></tr><tr><td colspan="4">TOTAL</td><td>100%</td></tr></table>
Forms of media:	White Board, LCD Projector, Laptop/Computer

Literature:	1. Costello, V., Youngblood, S.A, and Youngblood, N.E. (2012). *Multimedia Foundations*. Oxford: Elsevier Inc.
	2. Ivers, K.S. and Barrob, A.E. (2002). *Multimedia projects in education: designing, producing, and assessing*. Westport: Libraries Unlimited.
	3. Lee, W.W. and Owens, D.L. (2004). *Multimedia-BasedInstructional Design*. San Francisco: Pfeiffer.
	4. Mayer, R.E. (2009). *Multimedia Learning*. Second Edition. Cambridge: Cambridge University Press.
	5. Priyanto. (2009). *Desain Visual Presentasi Multimedia*. Yogyakarta: UNY Press.
	6. Smaldino, S.E., Lowther, D.L. & Russell, J.D. (2015). *Instructional technology and media for learning*. New Jersey: Pearson Prentice Hall.
	7. Steinmetz, Ralf and Klara Nahrstedt. (2004). Multimedia Systems. New York: Springer; 2004th edition (March 11, 2004)

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12
CO1				✓								
CO2					✓	✓						
CO3							✓					