

**IKI 40000 Komputer dan Masyarakat  
(Computers and society)  
Odd semester 2004/2005**

**Prerequisite** The course is targeted for 3<sup>rd</sup> year or later students to ensure that students have enough understanding on the computer's aspect to be able to discuss the social issues on the use of computers. Since English will be used as the language of instruction, students are expected to have adequate English proficiency.

**Lecturers** Widijanto S. Nugroho  
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**Objectives** This course is being offered to provide students with awareness and sensitivity toward social and economic issues surrounding the application of computer's technology in everyday life. Students are expected to be able to positively respond to the existing societal problems within the context of their discipline i.e. the computer science discipline. It is, therefore, most issues to be discussed are social issues, particularly dilemmas. Students are encouraged to analyze the issue and come up with possible contribution within the context of IT perspective. Other objectives include,

- a) Discuss issues related to social, ethics, and profession aspects
- b) Provide general survey of cultural impacts of technology, particularly computer technology, and stimulate reflections upon the social and ethical issues
- c) Enable students to make informed value judgment in their profession
- d) Develop professional responsibilities

**Topics to be discussed**

Topics are selected from recent social, economic, and political problems. Topics could be drawn from domestic issues as well as international ones, including

- a) Understanding the history and origin of computing
- b) Understanding the social impacts of computer's technology
- c) Understanding computer scientists' responsibility
- d) Dealing with evolving new technology
- e) Understanding the intellectual property issues

**Reading materials** (see also [www.cs.ui.ac.id/kuliah/IKI40000](http://www.cs.ui.ac.id/kuliah/IKI40000) )

It should be realized that recent and up to date reading materials cannot be prepared too early before it is discussed in the class. However, the following materials could be used to enrich students' understanding:

- a) K.W. Bowyer, Ethics and computing, 1996
- b) JA Senn, Information technology in business, 1995
- c) MA Arbib, Computers and the cybernetic society, 1983
- d) L. Long, Computers and information system, 4<sup>th</sup> ed., 1994
- e) Current newspapers, magazines, and other newsletters

<b>Grading</b>	paper assignment (2)	30%
	Midterm test	30%
	Class participation	10%
	Final examination	30%

**Office hour** by appointment  
**Class schedule** Wed 08:00-09:40