

Course Contract 2017

Department of Mechanical & Biosystem Engineering – Faculty of Agric. Technology
Bogor Agricultural University
TMB332 – Teknik Informatika Pertanian (Agriculture Informatics Engineering) 2 (2-0)

Description: Learn the basic concepts of information systems (IS) and information technology (IT) which includes definitions, resources, activities of IS, roles of IS for organizations, classification and development trend of SI and TI. Database management systems, internet and multimedia technology. The development of IS applications in the field of agriculture.

Lecturers : 1. Prof. Dr. Kudang B. Seminar, M.Sc (KBS) 2. Dr.Ir. Setyo Pertiwi, MAgr (STP)
3. Dr.Ir. M. Solahudin, MS (SOL) 4. Dr.Ir. Liyantono, MS (LYN)

Metoda Evaluasi: 1. Mid Test/UTS (35%)
2. Final Test/ UAS (40%)
3. Assignment (25%)

Jadwal Kuliah: Kelas Paralel 1 (Bhs Indonesia) **Selasa : 07:00-08:40 di Ruang V02.2**
Kelas Paralel 2 (Bhs Inggris) **Rabu: 13:00-14:40 di Ruang H102 (a)**

References :

1. James A. O'Brien, and George Marakas (2007). Management Information Systems, 8th ed. Boston, MA:McGraw-Hill, Inc., ISBN: 13 9780073323091
2. Seminar, K.B., Pramudya, B., Solahudin, M., Pertiwi, S., Liyantono, Supriyanto. (2014). Peran Kritis Teknologi dan Sistem Informasi untuk Pertanian Presisi. Di dalam: Strategi Pengembangan Teknologi Pertanian di Era Global, hal 284-298, IPB Press.
3. Post, Gerald V. (1999). Database Management Systems – Designing and Building Bussiness Applications. International Edition, Mc Graw-Hill.
4. Turban, Efraim (1993). *Decision Support and Expert System : 3rd edition*, Macmillan Inc.
5. <http://kseminar.staff.ipb.ac.id/TMB332>

Course Agenda

Meeting	Topic of discussions	Lecturers
1	Definitions of IT & IS. Resources & Activities of IS. Roles of IS for organizations	SOL
2	Hardware Technologies: CPU, I/O Devices, and Memory Devices	SOL
3	Categories of IS applications: operational & managerial	SOL
4	Software Technologies : System, application & development software	LYN
5	Multimedia Technologies	LYN
6	Web & Mobile Technologies	LYN
7	Database Management Systems (DBMS)	SOL
	MID-TEST	KBS/SOL/LYN/
8	IS Development Methods	KBS
9	GIS Applications for Agriculture	KBS
10	Decision Support System (DSS)	STP
11	Expert System (ES)	STP
12	IS Applications for E-Commerce & E-Business	STP
13	IS Support for Precision Agriculture	KBS
14	High Performance Computing (Parallel Computing) for Agriculture	KBS
	FINAL TEST	KBS/SOL/LYN/STP

Student Representative Bogor, February 2017

Coordinator



Name:

Prof.Dr.Ir. Kudang B. Seminar, MSc