SILABUS MATAKULIAH
PROGRAM MAGISTER MANAJEMEN INFORMASI

MMI 640 Model dan Sistem Informasi (3 SKS)
Sistem Informasi Organisasi dan individu, teknologi sistem informasi, komponen sistem informasi manajemen, aplikasi SIM pada bidang bisnis: produksi, pemasaran, keuangan, sumber daya, decision support system, computing and future trends in information technologi.
Buku teks :
1. Kroenke, David M., 1992, "Management Information Systems", McGraw Hill.
2. McLeod, Raymond, 1995, "Management Informations Systems : A Study of CBIS", Prentice Hall.

MMI 631 Sistem Operasi (3 SKS)
Prinsip sistem operasi pada beberapa arsitektur komputer seperti: komputer mikro, mini, dan sistem komputer besar (mainframe), bahasa C, sistem call, proses, komunikasi antar proses, I/O, deadlock, pengolahan memori: swapping, segmentasi, paging, sistem file: proteksi dan security, study kasus: UNIX, XENIX, LINUX, DOS, O/S 2, AIX, Windows, Windows-NT, Windows 95.

Buku teks :
1. Stallings, W., 1995, "Operating Systems", Prentice Hall.
2. Galvin, P.B. and A. Silberschatz, 1994, "Operating System Concepts", Addison-Wesley Publ. CO., Reading, Massachusetts.
3. Tanenbaum, A.S., 1992, "Modern Operating Systems", Prentice Hall.

MMI 643 Sistem Manajemen Basis Data (3 SKS)
Model data: relational, network, hierarchical, organisasi file, penelusuran data, metode akses, perencanaan sistem basis data:dependensi fungsional, multi-valued dependency, query processing and optimization.

Buku teks :
1. Ozkarahan, Esen, 1990, "Database Management: Concepts, Design and Practice", Prentice Hall., Englewoods.
2. Date, C.J., 1987, "An Introduction to Database Systems", Vol. I, Addison Wesley.
3. Ullman, J.D., 1988, "Principles of Database and Knowledge Base Systems", Vol. I, Computer Science Press.

MMI 645 Teknologi Informasi (3 SKS)
Komputer sebagai alat manipulasi simbol, representasi data, pemrosesan data, pemecahan masalah, penyajian informasi, pembuat alternatif keputusan, komputer sebagai sumber informasi (information retrieval), media tanya-jawab, diagnosa, pemakaian komputer untuk bidang pendidikan, hukum, bisnis, kedokteran, dan administrasi.
Buku teks :
1. Frenzel, Carrol W., 1992, "Management of Information Technology", Masachusetts : Boyd and Fraser.
2. Senn, J.A., 1995, "Information Technology in Business", Prentice Hall.

MMI 662 Telematika (3 SKS)
Sistem pengkodean data secara analog dan digital, multiplexing, switching paket dan rangkaian, model ISO, protokol komunikasi, paket HDLC, cara pendeteksian kesalahan bit, jaringan internet, interface: EIA, 232D, X.21, LAN, transmisi paket radio dan satelitenskripsi data, ISDN, ATM, kinerja jaringan.
Buku teks :
1. Stallings, William, 1994, "Data and Computer Communications", McMillan Pub. Co, Singapore.
2. Tanenbaum, Andrew S., 1988, "Computer Networks", Prentice Hall, 2nd edition.

MMI 745 Manajemen Sains (3 SKS)
Konsep probabilitas, distribusi probabilitas, pemrograman linier dan formulasi model, solusi grafis dari problem pemrograman linier, metode simpleks, model jaringan PERT/CPM, model pemrograman integer, model deterministik (inventory analysis), model antrian dan model kuantitatif lainnya.
Buku teks :
1. Markland, Robert E., 1987, "Quantitative Methods for Management Decisions", John Wiley & Sons.

MMI 748 Sistem Pendukung Pengambilan Keputusan (3 SKS)
Sistem pengambilan keputusan berbasis komputer, beberapa model kuantitatif, komponen sistem pendukung keputusan, aspek user and machine interface, rekayasa pengembangan sistem pendukung pengambilan keputusan, sistem informasi dan peranannya untuk manajemen.
Buku teks :
1. Gray, P., 1994, "Decision Support and Executive Information Systems", Prentice Hall.
2. Turban, E., 1995, "Decision Support and Expert Systems", Prentice Hall.

MMI 653 Sistem Basis Data Tersebar (3 SKS)
Topik pada Sistem Manajemen Basisdata Tersebar meliputi transaction manajement, concurrency control, deadlocks, replicated database management, query processing reliability, and surveys of commercial systems and research prototypes.

MMI 645 Teknologi Informasi (3 SKS)
Komputer sebagai alat manipulasi simbol, representasi data, pemrosesan data, pemecahan masalah, penyajian informasi, pembuat alternatif keputusan, komputer sebagai sumber informasi (information retrieval), media tanya-jawab, diagnosa, pemakaian komputer untuk bidang pendidikan, hukum, bisnis, kedokteran, dan administrasi.
Buku teks :
1. Frenzel, Carrol W., 1992, "Management of Information Technology", Masachusetts : Boyd and Fraser.
2. Senn, J.A., 1995, "Information Technology in Business", Prentice Hall.

MMI 654 Data Mining dan Warehousing (3 SKS)

Topik pada Data Mining dan Warehouse meliputi:
data mining; demands, potential and major issues, Classification of data minig techniques, Generalization, summarization and characterization, Discovery and analysis of patterns, trends and deviations, Mining knowledge in advanced or specialized database systems, Data mining models (decision trees, genetic algorithms, neural net, etc.), Data mining process (data preparation, defining a study, data cleaning, prediction, Enabling data mining through data warehouse, Integration of data mining tools with database systems, Data mining in distributed heterogeneous database systems, Data mining applications, Conclusions and future research issues.

Buku teks :

1. Data Warehousing in the Real World, Anahory/Murray, Addision-Wesley.

MMI 655 Teknologi e-Bisnis (3 SKS)

Definisi dan Evalusi E-Bisnis, Protokol TCP/IP, Jaringan Nilai-Tambah, Teknologi Client/Server, Httpd, Html, Javascript, Perl, Cookies, Shopping Cart, Java, Wireless Networking, Wireless Application Protocol.

Buku teks :

1. Goddard, Peter : BITWEN – Web Engineering
   http://ironbark.Bendigo.Latrobe.au/courses/subjects/bitwen
2. December, J., 1996 : HTML and CGI Unleashed, SAMS Publishing.
3. Wall, Christiansen, and Schwartz, 1996 : Programming Perl, O'Reilly & Asociates.
4. Gundavaram, S., 1996 : CGI Programming on the World Wide Web, O'Reilly & Asociates.
5. Berbagai bahan hasil download dari internet mengenai pemrograman web berikut contoh-contoh.
6. O'Brien, T.A, Introduction to information Systems, Prentice Hall.

MMI 747 Informasi dan Sistem Multi-media (3 SKS)

Konsep Multomedia, Kompresi Audio, Video, Jpeg, Mpeg, Manajemen Berkas, Manajemen Buffer, Sin lronisasi, Multimedia dan Internet, Security.

Buku teks :

1. Nahrstedt, K, 1997: Multimedia computing and communications, John Willey and Sons

MMI 740 Keamanan Data dan Informasi (3 SKS)

Dimensi Data & Informasi, Kriptografi: Klasik Dan Modern, Bilangan Acak, Enkrips Kunci Publik, Tanda Tangan Digital dan Algoritma Hash, Pengelolaan Kunci, Security dalam Praktek, Protokol Antentikasi, Trusted Computer Systems.

Buku teks :

1. Menezes, A, P. Van Ooschot, dan S. Vanstase, 1996, Handbook of Applied Crypography, CRC Press.
2. Brown, L, 2001, Crptography and Computer Security, Australian Defense National Academy.

MMI 799 Tesis (sm III, 6 SKS)

Penulisan mengenai suatu bidang spesialisasi komputer yang diakhiri dengan penulisan tesis sebagai tugas akhir program S-2. Tesis diharapkan mengandung unsur keaslian dalam cara mahasiswa merumuskan, menangani danm menyelesaikan masalah-masalah penelitian yang timbul.