Basis Data

Semester 2 - Wajib

Kode Mata Kuliah Beban Studi (sks) Mata Kuliah Pra-syarat

SID201 3 (2 Kuliah + 1 Tutorial) -

Capaian Pembelajaran

Mahasiswa mampu membuat model basis data relasional secara benar dan tepat sesuai studi kasus tertentu.

Deskripsi Mata Kuliah

Pengantar basis data; Model data relasional; Langkah-langkah dalam mendesain basis data, meliputi ER-diagram, Conceptual Data Model (CDM), Physical Data Model (PDM), dan mapping dari ER-diagram ke CDM dan PDM; Skema dan konsep normalisasi; Structured Query Language (SQL) dasar; SQL lanjut: Complex Query, Trigger, View, Function, Procedure, Package; Database Security (Pengontrolan Akses User); Pengontrolan Transaksi Database; Backup dan Recovery Database.

Atribut Soft Skills

Sikap Positif, Kesopanan, Bertanggung Jawab, Kerja sama, Etos Kerja, dan *Critical Thinking/Problem Solving*.

Metode Pembelajaran

Ceramah, Tugas Terstruktur, Diskusi, Studi Kasus.

Media Pembelajaran

LCD Proyektor, Laptop, Software DBMS, E-Learning, dan Papan Tulis.

Penilaian Hasil Belajar

Tugas (20%), Kuis (15%), UTS (30%), UAS (30%), Soft Skill (5%).

Dosen

Army Justitia, S. Kom., M. Kom.; Purbandini, S. Si., M. Kom.

Referensi Wajib

- [1] Raghu Ramakrishnan and Johannes Gehrke, Database Management Systems, 3rd Edition, McGraw-Hill, 2003.
- [2] Ramez Elmasri and Shamkant B. Navathe, Fundamentals of Database Systems, 3rd Edition, Addison-Wesley, 2000.
- [3] Thomas Connolly, Carolyn Begg and Anne Strachan, Database Systems: A Practical Approach to Design, Implementation, and Management, 3rd Edition, Addison-Wesley, 2002

