

MT-522	Applied Database Techniques
	<p><u>Overview of Database Managements:</u> Operational data, Data independence, Architecture for a database system.</p> <p><u>Database Models and Query Processing:</u> Relational approach, Hierarchical approach, Network approach, Relations, Domains and attributes, Keys, Relational algebra, Relation calculus and SQL.</p> <p><u>Functional Dependencies and Database Design:</u> Functional dependence, Normal forms, Relations with more than one candidate key.</p> <p><u>Artificial Intelligence and Fuzzy Logic:</u> Overview of AI, Prolog, Introduction and trends to fuzzy logic and fuzzy databases, From user requirement to evaluation strategies of flexible queries in databases, On the versatility of fuzzy sets for modelling flexible queries, Customizable flexible querying for classical relational database.</p> <p><u>Reference Books:</u></p> <ol style="list-style-type: none">1. Galindo J, <i>Handbook of Research on Fuzzy Information Processing in Database</i>, British Council Lib, 2009.2. Yen J and Langari R, <i>Fuzzy Logic: Intelligence, Control and Information</i>, Pearson, 2009.3. Colko J, <i>SQL for Smarties, Advanced SQL Programming</i>, San Francisco, Morgan Kaufmann Publishers, 1995.