Enterprise Resource Planning (ERP) Courses
Offered by the Department of Business & Information Technology
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ERP 246 - Introduction to Enterprise Resource Planning (ERP)
Prerequisite: IST 50
Fundamentals of enterprise resource planning (ERP) systems concepts, and the importance of integrated information systems in an organization. The focus of this course is on illustrating procurement, production, and sales business processes using ERP software. Use of SAP’s ERP Business Suite as an example ERP system.

ERP 301 - ERP Systems in Health Care Industry
Prerequisite: IST 50
Specialization of ERP systems and concepts to the field of Health Care, with special emphasis on Business Process Integration in this environment.

ERP301/ERP310 - ERP Enterprise Resource Planning in Small and Mid-size Enterprises
Prerequisite: (BUS120 AND ERP246) or ERP346
The course provides an overview of enterprise applications for small and midsize companies. SAP Business One is introduced to illustrate the enterprise-wide application for entrepreneurs, which manage business functions across sales, operation, and financials, all in a single integrated system.

ERP341 Enterprise Portal and Mobile Application
Prerequisites: Programming knowledge and either ERP 246 or preceded or accompanied by ERP 346
This course provides conceptual foundation and hands on experience in web based applications development deployed through an Enterprise Portal and Mobile platform. SAP Netweaver Enterprise Portal and tools including Visual Composer, Web Dynpro, and Sybase Unwired Platform will be used for apps. Prerequisite:

ERP 342 Customer Relationship Management in ERP Environment
Prerequisite: ERP 246 or preceded or accompanied by ERP 346
The course emphasizes identification (targeting), acquisition, retention, and development (expansion) of (profitable) customers, as well as effective and efficient management of customers, using information technology. SAP CRM, SAS BI tools, and Sybase mobile application development are used.

ERP 345 - Use of Business Intelligence
Prerequisites: (IST 223 or equivalent) and (ERP 246 or preceded or accompanied by ERP 346)
This course introduces data-oriented techniques for business intelligence. Topics include Business Intelligence architecture, Business Analytics, and Enterprise Reporting. SAP Business Information Warehouse, BusinessObjects, or similar tools will be used to access and present data, generate reports, and perform analysis.

Prerequisites: IST 50
This course provides a technical overview of Enterprise Resource Planning Systems and their impact on organizations. SAP’s ERP system is introduced to illustrate the concepts, fundamentals, framework, general information technology context, the technological infrastructure, and integration of business enterprise-wide applications.

ERP 347: Supply Chain Management Systems
Prerequisite: ERP 246 or preceded or accompanied by ERP 346
The course studies the need for supply chain integration and the challenges of managing complex interfaces using the systems approach for the planning, analysis, design, development, and evaluation of supply chain. SAP’s ERP ECC, SCM, BW, and Sybase Unwired Platform are used to deploy SCM apps.
ERP 348: Performance Dashboards, Scorecard, Data Visualization
Prerequisite: ERP 246 or preceded or accompanied by ERP 346
This course will study different performance management systems including dashboards, management cockpit, scorecards, and strategy maps in an organization. SAP's BW, Business Objects Xcelsius, Crystal Reports, Sybase Unwired Platform will be used to develop the applications.

ERP 301/ERP358: ERP Enabled Sustainability Management Systems
Prerequisites: IST 50
The course addresses how sustainability management systems can be used to reduce compliance costs and business risks and to establish Green IT practices. SAP's EHS Management, Sustainability Analytics, Carbon impact, or similar are used to enhance learning experience.

ERP 349 ERP System Administration
Prerequisites: ERP 346
System administration and performance monitoring practices for an Enterprise Resource Planning (ERP) system will be studied. Students will install an instance of an ERP system and establish user management attributes and system security.

ERP 442 Advanced Customer Relationship Management
Prerequisite: ERP 246 or preceded or accompanied by ERP 346
Identification (targeting), acquisition, retention, and development (expansion) of (profitable) customers. Effective and efficient management of customers, using IT. SAP CRM, SAS BI tools, and Sybase mobile application development are used. Research paper and presentation required.

ERP 444/IST444 Essentials of Data Warehouses
Prerequisite: IST 223 or Comp Sci 304 or equivalent relational database experience
This course presents the topic of data warehouses and the value to the organization. It takes the student from the database platform to structuring a data warehouse environment. Focus is placed on simplicity and addressing the user community needs.

ERP 446 Enterprise Resource Planning (ERP) Systems Configuration and Integration
Prerequisite: ERP 346
Implementation and design practices for business processes in Enterprise Resource Planning (ERP) systems. The course will examine and apply techniques used in SAP ERP system for system configuration and integration, with a focus on Financial Accounting, logistics, Controlling, and production.

ERP 448 Enterprise Performance Dashboard Prototyping
Prerequisite: ERP346 and (ERP444 or IST 444)
This course will study implementation and design practices for enterprise performance management and monitoring systems with a focus on dashboards, balanced scorecard, and value based management. SAP's Strategic Enterprise Management (SEM), Business Object Xcelsius, or similar tools will be used for project implementation.