

## Courses Description

**College:** Prince Alhusein Bin Abdullah The Second For Information Technology

**Department:** Information Technology

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**Course ID:** 2010041240      **Description:** Information Systems for Small and Medium-sized Enterprises

**Full Course Description:** This course introduces the enterprise architecture and information systems in small-to-medium-sized enterprises. The focus is on the cost-based tools that enable the business flow where the resources and budget are available for small-to-medium scale businesses such as national enterprises. Mainly, the focus would be on Open-source and/or low-cost software such as but not limited to, Microsoft Office products; Excel, Access, and publisher in managing enterprise data, Google products and analytics, open-source tools for meetings, project development tracking, data organization, what-if analysis, goal seekers, and basic data modeling and organization techniques.

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**Course ID:** 2010041250      **Description:** Busniess Data Analytics

**Full Course Description:** This course introduces the fundamental concepts and practice of descriptive, predictive, and prescriptive analytics to identify and analyze business data. The course also covers part of Python libraries of data science to make sense of the collected data on the business websites and pages on social networks such as Facebook and/or Twitter, sentiment analysis, and customer opinion on products trends through text analysis techniques.

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**Course ID:** 2010041330      **Description:** Managing and Developing Business Databases

**Full Course Description:** This course introduces the concepts of databases in the context of the electronic business environment by applying knowledge related to databases and using the appropriate tools to apply them to real cases. Topics include user requirements analysis, logical and physical database design, relational and object-oriented databases. Basic concepts for designing, creating and using relational data models as well as how to use databases to support website operations through various programming tools such as Oracle, SQL Server, Java A selected DB Language such as Oracle

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**Course ID:** 2010041351      **Description:** AI Applications in Busniess

**Full Course Description:** This course covers transferring and cross-referencing data; updating enterprise files, consumer behavior forecasting and product recommendations, fraud detection, personalized advertising and marketing messaging, customer service via telephone or chatbots, Intelligent Conversational Interfaces, Reduced Energy Use And Costs, Market Prediction.

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**Course ID:** 2010041360      **Description:** E-Marketing

**Full Course Description:** This course introduces the fundamental concepts of marketing and how information technology can increase product sales. The course will cover products and goods marketing on social networks; concepts, methods, and ethics, search engine marketing (SEM), Search Engine Marketing Ad Auction, spamming, websites evaluation metrics, basic Ad technology, and design, and analysis and design of smart marketing information systems.

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**Course ID:** 2010041361      **Description:** E-Services

**Full Course Description:** The course covers mainly focuses on two integral e-services; e-government and e-commerce. It introduces principles and models of e-government, e-democracy, e-participation, and e-voting. It also covers the steps and procedures followed in executing e-government projects and its benefits for government, citizens and business organizations. The second part presents an overview of Information Systems and Electronic Commerce, E-Marketplaces, Retailing and Consumer behavior, Multi-stage channel of E-Commerce Model, B2B E-Commerce, B2B Exchange and E-Supply chain

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**Course ID:** 2010041431      **Description:** Electronic Business Security

**Full Course Description:** This course introduces the principles, techniques, and methodologies necessary to design and evaluate information security in a complex electronic business environment. The course is designed to include topics that cover issues such as the nature of electronic business security, information security services for electronic business systems, enterprise security design, design of security protocols for e-business, security tools and programming techniques, the perimeter security of these technologies such as firewalls, systems to detect and prevent intrusion technology, Security requirements, and the humanitarian factors that affect e-business security.

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**Course ID:** 2010041441      **Description:** Decision Support Systems

**Full Course Description:** The course establishes a foundation for understanding and analyzing information and information systems in organizations. It also provides an overview of technical and organizational aspects of decision support systems (DSS), including individual, group, and organizational DSS as well as executive information systems (EIS). Management of DSS and EIS within the end-user computing environment is also discussed.

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**Course ID:** 2010041442      **Description:** Knowledge Management

**Full Course Description:** This course describes the fundamental concepts of knowledge, the knowledge-centric organization, building knowledge management solutions, and the KM cycle, knowledge representation, and implementation. It also covers knowledge management tools, portals, and social intelligence networks. It provides a study on knowledge management models and programs and the technology and communication tools used to implement such models such as the structured controversy.

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**Course ID:** 2010041452      **Description:** Business Intelligence

**Full Course Description:** The course gives an overview of how business intelligence technologies can support decision making across any number of business sectors. These technologies have had a profound impact on corporate strategy, performance, and competitiveness and broadly encompass decision support systems, business intelligence systems, and visual analytics. Modules are organized around the business intelligence concepts, tools, and applications, and the use of data warehouse for business reporting and online analytical processing, for creating visualizations and dashboards, and for business performance management and descriptive analytics.

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**Course ID:** 2010041470      **Description:** Enterprise Resource Planning Systems

**Full Course Description:** This course will explore the concepts, principles, and state-of-the-art methods in successfully integrating Enterprise Resource Planning (ERP) systems into extant enterprise architectures. The course will help both functional area and IT managers understand the respective role of users, enterprise architects, developers, and managers in the selection, preparation, implementation and management of large and complex enterprise applications. This course is a precursor to deeper involvement in ERP management, implementation and, if desired, administration.

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**Course ID:** 2010041490      **Description:** Practical Training

**Full Course Description:**

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**Course ID:** 2010041491      **Description:** Project In Business Information Technology (1)

**Full Course Description:**

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**Course ID:** 2010041492      **Description:** Project In Business Information Technology (2)

**Full Course Description:**

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**Course ID:** 2010041493      **Description:** Special Topics In Business Information

**Full Course Description:**

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**Course ID:** 2010041494      **Description:** Research Methods in Information Technology

**Full Course Description:** This course provides students with practical perspectives on how research can be applied in real information technology environments. This covers the skills of reading, reviewing, and developing research papers, perform a literature review, describe sampling methods, measurement scales and instruments, research publishing ethics, and demonstrate how educational research contributes to the university and country objectives.

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**Course ID:** 2010042101      **Description:** Discrete Mathematics

**Full Course Description:**

## Courses Description

**College:** Prince Alhuseein Bin Abdullah The Second For Information Technology

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**Course ID:** 2010042210      **Description:** Introduction to Data Science

**Full Course Description:**

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**Course ID:** 2010042211      **Description:** Data Engineering

**Full Course Description:**

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**Course ID:** 2010042220      **Description:** Introduction to Artificial Intelligence

**Full Course Description:**

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**Course ID:** 2010042250      **Description:** Programming for Data Science and Artificial Intelligence

**Full Course Description:**

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**Course ID:** 2010042271      **Description:** Information Retrieval

**Full Course Description:**

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**Course ID:** 2010042300      **Description:** Algorithms Analysis and Design

**Full Course Description:**

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**Course ID:** 2010042312      **Description:** Data Mining

**Full Course Description:** Data mining is concerned with the extraction of novel knowledge from large amounts of data. This course introduces and studies the concepts, issues, tasks and techniques of data mining. Topics include data preparation and feature selection, association rules, classification, clustering, evaluation and validation, scalability, spatial and sequence mining, and data mining applications. The practical side of this course will introduce students to learn and use the open-source Weka data mining tool.

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**Course ID:** 2010042313      **Description:** Time Series analysis

**Full Course Description:**

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**Course ID:** 2010042314      **Description:** Data Security

**Full Course Description:**

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**Course ID:** 2010042321      **Description:** Machine Learning

**Full Course Description:**

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**Course ID:** 2010042322      **Description:** Digital Image Processing

**Full Course Description:**

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**Course ID:** 2010042323      **Description:** Neural Networks & Deep Learning

**Full Course Description:**

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**Course ID:** 2010042340      **Description:** Robot Programming

**Full Course Description:**

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**Course ID:** 2010042341      **Description:** Introduction to Mobile Robots

**Full Course Description:**

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**Course ID:** 2010042351      **Description:** Advanced Programming for Data Science and Artificial Intelligence

**Full Course Description:**

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**Course ID:** 2010042352      **Description:** Data Science Tools

**Full Course Description:**

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**Course ID:** 2010042360      **Description:** Big Data

**Full Course Description:**

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**College:** Prince Alhuseein Bin Abdullah The Second For Information Technology

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**Course ID:** 2010042362      **Description:** cloud-computing

**Full Course Description:**

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**Course ID:** 2010042424      **Description:** Computer Vision

**Full Course Description:**

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**Course ID:** 2010042463      **Description:** High-Performance Computing

**Full Course Description:**

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**Course ID:** 2010042470      **Description:** Natural Language Processing and Text Mining

**Full Course Description:**

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**Course ID:** 2010042480      **Description:** Smart Cities

**Full Course Description:**

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**Course ID:** 2010042490      **Description:** Practical Training

**Full Course Description:**

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**Course ID:** 2010042491      **Description:** Project in data science and artificial intelligence(1)

**Full Course Description:**

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**Course ID:** 2010042492      **Description:** Project in data science and artificial intelligence(2)

**Full Course Description:**

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**Course ID:** 2010042493      **Description:** Special Topics

**Full Course Description:**

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**Course ID:** 2010043250      **Description:** Introduction to cybersecurity

**Full Course Description:**

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**Course ID:** 2010043251      **Description:** Cryptography

**Full Course Description:**

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**Course ID:** 2010043316      **Description:** Python Programming

**Full Course Description:**

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**Course ID:** 2010043360      **Description:** Information Security Protocols

**Full Course Description:**

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**Course ID:** 2010043371      **Description:** Database Management Systems and Security

**Full Course Description:**

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**Course ID:** 2010043380      **Description:** Network Monitoring and Documentation

**Full Course Description:**

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**Course ID:** 2010043381      **Description:** Ethical Hacking

**Full Course Description:**

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**Course ID:** 2010043382      **Description:** Ethical Hacking Lab

**Full Course Description:**

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**Course ID:** 2010043383      **Description:** Network Security and its Threats

**Full Course Description:**

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**Course ID:** 2010043452      **Description:** Cloud Computing Security

**Full Course Description:**

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**College:** Prince Alhusein Bin Abdullah The Second For Information Technology

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**Couse ID:** 2010043461      **Description:** Digital Forensics

**Full Course Description:**

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**Couse ID:** 2010043462      **Description:** Digital Forensics Lab

**Full Course Description:**

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**Couse ID:** 2010043472      **Description:** E-commerce Security

**Full Course Description:**

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**Couse ID:** 2010043484      **Description:** Information Hiding Techniques

**Full Course Description:**

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**Couse ID:** 2010043485      **Description:** Malicious Software

**Full Course Description:**

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**Couse ID:** 2010043486      **Description:** Integrated Penetration Protection

**Full Course Description:**

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**Couse ID:** 2010043487      **Description:** Special Topics in Cyber Security

**Full Course Description:**

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**Couse ID:** 2010043490      **Description:** Practical Training

**Full Course Description:**

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**Couse ID:** 2010043491      **Description:** Applied Project(1)

**Full Course Description:**

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**Couse ID:** 2010043492      **Description:** Applied Project(2)

**Full Course Description:**

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**Couse ID:** 2210041132      **Description:** enterepreurship and innovation

**Full Course Description:**