

Admission Exam Announcement for PhD Program

Information Systems Department

The Faculty of Computing and Information Technology announces the admission exam schedule for the PhD program in the Information Systems Department. Please find the details below:

Exam Date and Time:

The exam will take place on Monday, 4/3/1448 AH (17/8/2026) from 11:00 AM to 1:00 PM.

Exam Location:

- **For Male students:**
 - Location: Lab No. L0-14, Ground Floor, Faculty of Computing and Information Technology (FCIT), Building 080B – King Abdulaziz University (KAU), Jeddah.
- **For Female students:**
 - Location: Lab No. 122G and 123G, Ground Floor, Female Campus, Building 61 – King Abdulaziz University (KAU), Jeddah.

Contact Information:

- Program Director – Dr. Tawfiq Hasanin: thasanin@kau.edu.sa

Exam Syllabus:

The table below lists each subject with its suggested textbook and the specific chapters.

Subject	Suggested Textbook	Chapters
Big Data	Groff & Jones, Introduction to Knowledge Management (Routledge, 1st ed., 2016) Han, Kamber & Pei, Data Mining: Concepts and Techniques (Elsevier, 3rd ed., 2012)	Knowledge Management: Ch. 1 – Introducing KM Ch. 4 – Organize and Secure Ch. 5 – Analysis and Collaborate Data Mining: Ch. 1 – Introduction Ch. 2 – Getting to Know Your Data
Information Systems	Turban, Sharda & Delen, Decision Support and Business Intelligence Systems (Prentice Hall, 9th ed., 2011)	Ch. 1 – Decision Support Systems and Business Intelligence Ch. 2 – Decision Making, Systems, Modeling, and Support Ch. 3 – Decision Support Systems: Concepts, Methodologies, and Technologies: An Overview
Security	Pfleeger & Pfleeger, Security in Computing (Prentice Hall, 5th ed., 2015)	Ch. 1 – Introduction Ch. 2 – Toolbox: Authentication, Access Control, and Cryptography Ch. 4 – The Web—User Side Ch. 6 – Networks
Software Engineering	Satzinger, Systems Analysis and Design in a Changing World (Course Technology, 6th ed., 2012)	Ch. 1 – From Beginning to End: An Overview of Systems Analysis and Design Ch. 2 – Investigating System Requirements Ch. 6 – Essentials of Design and the Design Activities Ch. 7 – Designing the User and System Interfaces Ch. 8 – Approaches to System Development
Systems Architecture	Lankhorst, Enterprise Architecture at Work (Springer, 2nd ed., 2009)	Ch. 2 – State of the Art Ch. 3 – Foundations Ch. 4 – Communication of Enterprise Architectures

Subject	Suggested Textbook	Chapters
Database	Elmasri & Navathe, Fundamentals of Database Systems (Addison-Wesley, 7th ed., 2016)	Ch. 1 – Databases and Database Users Ch. 2 – Database System Concepts and Architecture Ch. 5 – The Relational Data Model and Relational Database Constraints Ch. 6 – Basic SQL Ch. 7 – More SQL: Complex Queries, Triggers, Views, and Schema Modification
Networking	Forouzan, Data Communications and Networking (McGraw-Hill, 5th ed., 2012)	Ch. 1 – Introduction Ch. 2 – Network Models Ch. 7 – Transmission Media Ch. 13 – Wired LANs: Ethernet
Operating Systems	Silberschatz, Galvin & Gagne, Operating System Concepts (Wiley, 9th ed., 2013)	Ch. 1 – Introduction Ch. 2 – Operating-System Structures Ch. 3 – Processes Ch. 4 – Threads Ch. 6 – CPU Scheduling Ch. 8 – Main Memory
Programming	Liang, Introduction to Java Programming, Comprehensive Version (Pearson, 10th ed., 2015)	Ch. 2 – Elementary Programming Ch. 4 – Mathematical Functions, Characters, and Strings Ch. 5 – Loops Ch. 6 – Methods Ch. 8 – Multidimensional Arrays Ch. 9 – Objects and Classes Ch. 11 – Inheritance and Polymorphism Ch. 13 – Abstract Classes and Interfaces