

## مواصفات خريج برنامج نظم المعلومات طبقاً للمعايير الأكاديمية القومية

### **The graduates of Information System programs should be able to:**

1. Apply the fundamental theories and principles of computing and information applications.
2. Integrate and evaluate the computing tools and facilities.
3. Apply knowledge of mathematics and science.
4. Design a computing system, component and process to meet the required needs within realistic constraints.
5. Exploit the techniques, skills and up-to-date computing tools, necessary for computing and information practice.
6. Display professional responsibilities and ethical, societal and cultural concerns.
7. Use, compare and evaluate a range of formal and informal techniques, theories and methods to develop computing and information applications.
8. Consider and deal with the individual, social, environmental, organizational and economic implications of the application of computing and information.
9. Carry out a work plan with minimal supervision.
10. Communicate effectively.
11. Hold knowledge and skills required by the computing and information industry.
12. Engage in self and life-long learning and research in computing and information.
13. Fulfill requirements of potential employers.
14. Recognize problems that are amenable to computer information systems, and knowledge of the tools necessary for solving such problems.
15. Understand fundamentals of systems development life cycle (SDLC), information networks, information security, data mining, e-commerce, geographical information systems, and crisis management.

16. Managing and exploiting organizational data and information; designing data and information models, managing information systems development resources and projects.
17. Implement solutions, including use of appropriate programming languages, web-based systems and tools, design methodologies, and database systems.
18. Apply the principles of effective information management, information organization, information mining, and information-retrieval skills to information of various kinds, including text, images, sound, and video.
19. Know the fundamentals of intelligent information systems technologies.
20. Specify, design, and implement computer-based information systems, and evaluate them in terms of general quality attributes and possible tradeoffs presented within the given problem.
21. Apply IS solutions to functional, inter-organizational, operational, managerial, and executive problems and opportunities.
22. Describe characteristics of various components of information systems, use the appropriate tools and techniques to analyze, design, and construct information systems.
23. Communicate effectively by oral, written and visual means.
24. Work effectively as an individual and as a member of a team.
25. Perform independent and efficient time management.
26. Aware of key ethical issues affecting information systems and their responsibilities as information science professionals.

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منسق المعيار