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Courses Description

College: Prince Alhussein Bin Abdullah The Second For Information Technology

Couse ID: 1002799 Description: Thesis
Full Course Description: a
Couse ID: 31002799 Description: 3
Full Course Description: 222
Couse ID: 61002799 Description:
ش :Full Course Description
Couse ID: 91002799 Description: Thises
Full Course Description: aa
Couse ID: 121002721 Description: Network Systems Management
Full Course Description:
Couse ID: 121002731 Description: Creativity and Innovation in Digital Technologies
Full Course Description: کك
Couse ID: 121002734 Description: Innovation in Software Development
Full Course Description: نن
Couse ID: 121002751 Description: Data Mining
Full Course Description: KM
Couse ID: 121002752 Description: Information Retrieval Systems
لال Full Course Description: ال
Couse ID: 121002761 Description: e-Commerce and Marketing
Full Course Description: 11
Couse ID: 121002771 Description: Information Security
Full Course Description: fj
Couse ID: 121002790 Description: Comprehensive Exam
Full Course Description: 10
Couse ID: 121002791 Description: Scientific Research Methodology
لل Full Course Description:
Couse ID: 121002795 Description: Selective Topics
Full Course Description: بب
Couse ID: 121002798 Description: Research Project
فف : Full Course Description
Couse ID: 121002799 Description: Thesis
Full Course Description: اف

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College: Prince Alhussein Bin Abdullah The Second For Information Technology

Couse ID: 2010021711	Description: Information security
Full Course Description:	Information Security is a comprehensive study of the principles and practices of computer system $\ \square$
	security including operating system security, network security, software security and web security.
	Topics include common attacking techniques such as virus, trojan, worms and memory exploits;
	the formalisms of information security such as the access control and information flow theory; the \Box
	common security policies such as BLP and Biba model; the basic cryptography, RSA, cryptographic hash function, and password system. The real system implementations, with case
	study of UNIX, SE-Linux, and Windows; network intrusion detection; software security theory;
	web security; legal and ethical issues in computer security.
Couse ID: 2010021712	Description: Wireless Network and Mobile Systems Security
Full Course Description:	The course is an advanced course of security in mobile communication systems, including \Box mobile/cellular telephony, wireless Internet, mobile ad hoc, IoT systems and sensor networks. The \Box
	course covers protocols and configurations for realizing authentication, key distribution, integrity,
	confidentiality and anonymity in wireless networks. The course introduces an overview of security
	principles in several generations of mobile networks, from GSM (2G), UMTS (3G) up until LTE
	(4G). Security models of popular mobile device platforms are also introduced including IOS, Android and the Windows Phone. Security in mobile services, such as VoIP, text messaging, WAP □
	and mobile HTML are also introduced.
Couse ID: 2010021730	Description: Digital Forensics
Full Course Description:	This course presents an overview of the principles and practices of digital investigation. The objective of this class is to emphasize the fundamentals and importance of digital forensics. Students will learn different techniques and procedures that enable them to perform a digital \Box
	investigation. This course focuses mainly on the analysis of physical storage media and volume \Box
	analysis. It covers the major phases of digital investigation such as preservation, analysis. This \Box
	course will provide theoretical and practical knowledge, as well as current research on Digital
	Forensics. Upon completion of the course, students can apply open-source forensics tools to \Box
	perform digital investigation and understand the underlying theory behind these tools.

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Couse ID: 2010021731	Description: Ethical Hacking
Full Course Description:	Introduction to the principles and techniques associated with the cybersecurity practice known as \square
	ethical hacking. The course covers planning, reconnaissance, scanning, exploitation, postexploitation, and result reporting. The student discovers how system vulnerabilities
	can be exploited and learns to avoid such problems. The course will provide the fundamental information
	associated with each of the methods employed and insecurities identified. In all cases, remedial \square
	techniques will be explored. Students will develop an excellent understanding of current cybersecurity issues and ways that user, administrator, and programmer errors can lead to exploitable insecurities.
Couse ID: 2010021732	Description: Hacking Techniques
Full Course Description:	This course helps students understand malicious, black hat attackers' tactics and strategies in detail.
	The course also teaches students how to use the same hacking techniques to perform a white-hat, \square
	ethical hack, on their organization. It teaches students how hackers undermine systems and how $\hfill\square$
	to prepare, detect, and respond to computer incidents. The course covers fundamentals of hacking,
	the latest information and strategies in penetration testing, footprinting, vulnerability scanning and \square
Couse ID: 2010021733	exploits, and network traffic analysis. Description: Penetrating Testing
Full Course Description:	This course enhances the business skills needed to identify protection opportunities and optimize
	security controls in an organization. In this course, students will learn how to use ethical hacking \Box
	to discover weakness in their organization and how to gather intelligence by employing reconnaissance, published data, and scanning tools. In this course, students will go through a
	complete penetration test and create assessment reports using latest tools such as Saint, Metasploit
	through Kali Linux and Microsoft PowerShell.
Couse ID: 2010021734	Description: Cryptography
Full Course Description:	This course will cover the cryptography and crypto-analysis techniques. It will introduce the symmetric and asymmetric encryption, private and public key encryption, key distribution, □ cryptographic hash functions stream ciphers, zero-knowledge proof systems, cryptanalytic □ attacks and brute-force attacks.

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Couse ID: 2010021741	Description: Big Data Analytic and Management
Full Course Description:	This course is an introduction to the concepts of "Big Data" and "data analysis". It provides an \square
	introduction to one of the most common frameworks, Hadoop, that has made big data analysis \Box
	easier and more accessible. At the end of this course, students are expected to first, describe the \square
	Big Data landscape including examples of real-world big data problems including the three key □
	sources of Big Data: people, organizations, and sensors. Second, explain the V's of Big Data \square
	(volume, velocity, variety, veracity, valence, and value) and why each impacts data collection, \square
	monitoring, storage, analysis, and reporting. Third, to have some Practical experience with some \square
	commonly used tools and techniques for (big) data processing. Forth, know the basics of distributed file systems, databases, and computing. Fifth, to have gained practical data processing
	skills with the MapReduce framework / Apache Hadoop.
Couse ID: 2010021742	Description: Cyber Defense Monitoring
Full Course Description:	This course concentrates on a number of important Cyber Defense Monitoring techniques and \square
	solutions. The course focuses on event logging and collection with syslog protocol, regular expression language and its applications to system/network monitoring, event correlation, and
	finally network intrusion detection and prevention. The course also discusses a number of opensource monitoring solutions, including UNIX rsyslog package, Simple Event Correlator, and Snort IDS/IPS.
Couse ID: 2010021743	Description: Cyber Security Risk Management
Full Course Description:	As organizations are vulnerable to different types of cyberattacks, and due to the limitations in \square
	organizational resources, the ability to perform risk management has become crucial for organizations to defend their system. This course will help students identify and analyze information security vulnerabilities and threats in their organizations. Students also will be able to
	develop risk mitigation strategies to respond to different types of cyberattacks including the appropriate legal and compliance steps that need to be undertaken.
Couse ID: 2010021744	Description: Disaster and Crises Management
Full Course Description:	This course covers topics related to disaster recovery and emergency planning and management as applied to the information-systems function in corporations. Topics include security risk evaluation and management, creation of threat profiles, continuity of operations planning, contingency planning, and incident reporting. A self-directed approach/tool for the conduct of
	□ information security risk evaluation is introduced. Projects include developing a security □ protection strategy and plan.

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Couse ID: 2010021761	Description: e-Commerce and e-Marketing
Full Course Description:	e-Commerce and e-Marketing :This course examines the advanced concepts, technology, and $\hfill\square$
	applications of electronic commerce, or e-commerce. Since users can engage in e-commerce \Box
	from a fixed device (e.g., PC) or from a mobile device (e.g., mobile phone) we will examine both
	traditional fixed e-commerce and mobile e-commerce or m-commerce. The course begins by \square
	setting the context for ecommerce within the domain of information systems. It examines security and payment in e-commerce. It explains the technological infrastructure needed to support an e-commerce system and describes how e-commerce systems are built. Next the course
	examines m-commerce in detail. It presents m-commerce concepts and discusses the technology
	needed for m-commerce. It examines the range of commerce applications and discusses mobile \square
	security and payment. The course concludes with a presentation on the future of e-commerce. \square
	The focus is on analytical skills during electronic businesses applications.
Couse ID: 2010021782	Description: Web technology
Full Course Description:	Web Technology: this course introduces World Wide Web Consortium (W3C) standard markup
	language and services of the Internet. It introduces the creation of web graphics using web graphics file types, optimization, RGB color, web typography, elementary special effects, transparency, animation, slicing, basic photo manipulation, and other related topics. In addition,
	it introduces W3C standard client-side Internet programming using developed programming languages. Finally, it includes the creation of web sites and applets using web development software. This course also gives an introduction to web intelligence (WI). WI is a
	combination of □ digital analytics, which examines how website visitors view and interact with a site's pages and □
	features, and business intelligence, which allows a corporation's management to use data on \square
	customer purchasing patterns, demographics, and demand trends to make effective strategic decisions.
Couse ID: 2010021792	Description: Research Methodology
Full Course Description:	This course has a vocational focus. It assists students to develop skills in research and scientific \square
	communication in the relevant discipline. Topics addressed include design and performance of \square
	experiments or action research, analysis and presentation of research data, and preparation of oral \square
	and written scientific reports that use these skills. The aim of the course is to prepare students to \square
	apply research focused on one of the following: □ ? Hacking techniques. □
	? Digital forensics. □ ? Security protocols. □
	? Monitoring the cyberspace.

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Courses Description

College: Prince Alhussein Bin Abdullah The Second For Information Technology

Department: Computer Information Systems(Cis)

Couse ID: 2010021794	Description: Special topics in Cyber Security
Full Course Description:	Topics will be assigned by the department on evolving techniques and related topics to support the $\hfill\square$
	study plan and to encourage further research by students.
Couse ID: 2010021799	Description: Thesis
Full Course Description:	Each student must complete, document, present and defend a thesis under the supervision of a $\hfill\square$
	faculty member in the fields of Information Systems Security and cyber security. Every candidate \square
	must complete a thesis (equivalent to 9 credit hours) describing research work of publishable \square
	quality. The thesis must be defended before a committee consisting of the supervisor and at least \square
	three other faculty members, one from outside the university, in the relevant fields. The thesis $\hfill\square$
	defense is open to all interested faculty and students. Upon the completion of 15 credits, a student \square
	is eligible to register for thesis.
Couse ID: 2010023799	Description: Thesis
Full Course Description:	
Couse ID: 2010026799	Description: Thesis
Full Course Description:	
Couse ID: 2010029799	Description: Thesis

Full Course Description: