

COURSES OFFERED IN ENGLISH LANGUAGE

FALL SEMESTER 18-19

CS 425 Internet Technologies (7.5 ECTS)

Topics of Internet and World-Wide Web technologies, with an emphasis on WWW applications and Internet Programming. The foundations of WWW applications, including Hypertext, Navigation in Hyperspace, Hypertext Usability, Information Overload, Markup Languages and methodologies of WWW Application Design. System issues related to Internet programming and performance: Protocols, Servers, WWW interactivity, Internet-based distributed systems.

CS 434 Logic Programming and Artificial Intelligence (7.5 ECTS)

Basic principles of Logic programming and Implementation, using the Prolog Language. Relation of Logic Programming to modern considerations regarding Artificial Intelligence. Solving Application problems drawn from the fields of Artificial Intelligence and Databases, making use of Logic Programming and Constraint Logic Programming.

CS 445 Digital Image Processing (7.5 ECTS)

Binary Image Representation. Image Histogram and Point Operations. Discrete Fourier Transform. Linear Image Filtering. Non Linear Image Filtering Pipeling. Image compression. Image analysis I. Image Analysis II. Digital video processing.

CS 475 Network and Information Security (7.5 ECTS)

Introduction to security threats and attacks, Cryptographic Techniques (encryption, cryptanalysis, authentication, confidentiality), Identification and Authentication (Kerberos, PKI), Internet Application Security Protocols (PGP, SSL/TLS), Network Security (Firewalls, IDS), Defending against threats on End- systems, Checking of networks and applications for Vulnerabilities, Other issues in Network and Information Security (privacy, ethics, legal framework).

<http://www.ucy.ac.cy/publications/documents/Ekdoseispdf/Prospectuses/Undergr.Prosp.En16-18.pdf>

<http://www.ucy.ac.cy/cs/en/>

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