

# ISPITNA LITERATURA

STRUČNI DIPLOMSKI STUDIJ  
**INFORMACIJSKI SUSTAVI**

# **STRUČNI DIPLOMSKI STUDIJ**

# **INFOMRACIJSKI SUSTAVI**

## **ISPITNA LITERATURA**

- 3 Analiza i dizajniranje informacijskih sustava**
- 3 Arhitekture informacijskih sustava**
- 4 ASP web-programiranje**
- 4 Autorizacija i autentifikacija**
- 5 Baze podataka u Internetskom okruženju**
- 5 Distribuirane baze podataka**
- 5 Infrastruktura informacijskih sustava**
- 6 Inovacije i nove tehnologije u informacijskim sustavima**
- 6 Interakcija čovjeka i računala**
- 7 Metodologija istraživačkog rada**
- 7 Napredno web programiranje**
- 8 Nekonvencionalni računalni postupci**
- 8 Objektno orijentirano programiranje**
- 9 Očuvanje podataka i neprekidnost poslovanja**

# STRUČNI DIPLOMSKI STUDIJ

## INFOMRACIJSKI SUSTAVI

### ISPITNA LITERATURA

- 10 **Performanse informacijskih sustava**
- 10 **PHP web-programiranje**
- 11 **Programiranje u JAVA jeziku**
- 11 **Sigurnost na WEB-u**
- 12 **Strategije upravljanja informacijskim sustavima**
- 12 **Sustavi za potporu u odlučivanju**
- 13 **Sustavi za upravljanje bazama podataka**
- 13 **Sustavi za upravljanje bazom znanja**
- 14 **Upravljanje procesima u poslovanju**
- 14 **Upravljanje projektima**
- 15 **Web aplikacije u Javi**

## Analiza i dizajniranje informacijskih sustava

### Obvezna literatura

Information Systems Development, Mar 1, 2006 by David Avison and Guy Fitzgerald

Modern Systems Analysis and Design, Publisher: Prentice Hall; 6 edition (January 13, 2010),

### Preporučena literatura

Systems Analysis and Design, Publisher: Course Technology; 9 edition (March 7, 2011)

Systems Analysis and Design, Publisher: Prentice Hall; 8 edition (January 13, 2010)

Systems Analysis and Design Methods, Publisher: McGraw-Hill/Irwin; 7th edition (November 22, 2005)

## Arhitekture informacijskih sustava

### Obvezna literatura

Svyatoslav Kotusev: The Practice of Enterprise Architecture: A Modern Approach to Business and IT Alignment, SK Publishing, 2nd edition

Gerben Wierda: Mastering Archimate Edition 3.1: A serious introduction to the Archimate(R) enterprise architecture modelling language, Publisher: R&A, April 2021

### Preporučena literatura

Van Haren Publishing: The TOGAF Standard, Version 9.2, April 2018

Enterprise Architecture at Work: Modelling, Communication and Analysis, Publisher: Springer; 2nd ed. edition (September 18, 2009)

Guide to Enterprise IT Architecture (Springer Professional Computing), Publisher: Springer; (May 26, 2011)

Enterprise Architecture As Strategy: Creating a Foundation for Business Execution, Publisher: Harvard Business Review Press (August 1, 2006)

An Introduction To Enterprise Architecture, Publisher: AuthorHouse; 2 edition (September 6, 2005),

## ASP web-programiranje

### Obvezna literatura

Jesse Liberty, Dan Hurwitz: Programiranje ASP.NET, O'Reilly, Dobar plan d.o.o (Prijevod), 2006

### Preporučena literatura

A.Troelsen, P.Japikse: Pro C# 9 with .NET 5, Tenth Edition, 2021, Apress

Dino Esposito, Programming Microsoft ASP.NET 4

Dino Esposito, ASP.NET and AJAX Architecting Web Applications

Jesse Liberty, Dan Hurwitz: Programiranje ASP.NET, O'Reilly, Dobar plan d.o.o (Prijevod), 2006

Russell Jones: ASP. NET sa C#, Kompjuter biblioteka (prijevod), 2003

## Autorizacija i autentifikacija

### Obvezna literatura

Gerald Carter: LDAP System Administration, O'Reilly Media, 2003

Roberta Bragg, Mark Rhodes-Ousley, Keith Strasberg: 'Network security: the complete reference', McGraw-Hill Professional, 2004

URL: [http://en.wikipedia.org/wiki/Kerberos\\_\(protocol\)](http://en.wikipedia.org/wiki/Kerberos_(protocol))

URL: <http://en.wikipedia.org/wiki/Authentication>

URL: <http://en.wikipedia.org/wiki/Ldap>

URL: <http://en.wikipedia.org/wiki/RADIUS>

URL: [www.isi.edu/gost/brian/security/kerberos.html](http://www.isi.edu/gost/brian/security/kerberos.html)

### Preporučena literatura

Carlisle Adams, Steve Lloyd: Understanding PKI: Concepts, Standards, and Deployment Considerations (2nd Edition)

John R. Vacca: Public Key Infrastructure: Building Trusted Applications and Web Services, Auerbach Publications, CRC Pres LLC, 2004

W. Stallings: Network Security Essentials, Prentice Hall, 2002

## Baze podataka u Internetskom okruženju

### Obvezna literatura

Robert Nixon: Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5 (Learning PHP, MYSQL, Javascript, CSS & HTML5), O'Reilly, 2018.

Luke Welling: PHP and MySQL Web Development (Developer's Library) 5th Edition, Addison-Wesley, 2017.

### Preporučena literatura

Janet Valade: PHP & MySQL For Dummies, 4th Edition, Wiley Publishing, 2010.

## Distribuirane baze podataka

### Obvezna literatura

Saeed K. Rahimi, Frank S. Haug: Distributed Database Management Systems: A Practical Approach, Wiley and Sons Inc. Publication, 2010.

### Preporučena literatura

Foster, The Physiology of the Grid: An Open Grid Services Architecture for Distributed Systems Integration, 2002.

Coulouris, G., Dollivnore, J., Kindberg, T.: Distributed Systems- Concepts and Design, 3rd Ed. Edison-Wesley, 2000.

M.Tamer Ozsu, Patrick Valduriez, and Patrick Viladuriez: Principles of Distributed Data Base Systems, Secend Ed. Prentice Hall

## Infrastruktura informacijskih sustava

### Obvezna literatura

IT Infrastructure Architecture: Infrastructure building blocks and concepts, Publisher: Lulu.com (November 5, 2011)

Klaus Schmidt: High Availability and Disaster Recovery - Concepts, Design, Implementation, Springer, 2006.

Ivanka Menken: Itil® Foundation Complete Certification Kit -Study Book and eLearning Program 4th Edition, (2012)

Web stranice Cisco akademije: [www.netacad.com](http://www.netacad.com)

### Preporučena literatura

IT Systems Management, Publisher: Prentice Hall; 2 edition (February 7, 2010),

Internet stranice proizvođača računalne opreme

## Inovacije i nove tehnologije u informacijskim sustavima

### Obvezna literatura

Virtual Team Success: A Practical Guide for Working and Leading from a Distance, Publisher: Pfeiffer; 1 edition (October 19, 2010)

E-Commerce 2012, Publisher: Prentice Hall; 8 edition (November 26, 2011)

Cisco Networkin Academy IoT courses

### Preporučena literatura

Internet stranice proizvođača računalne opreme

Social Media at Work: How Networking Tools Propel Organizational Performance, Publisher: Jossey-Bass; 1 edition (October 19, 2009),

## Interakcija čovjeka i računala

### Obvezna literatura

AlenDix & all , Human-Computer Interaction, Publisher: Prentice Hall; 3rd edition (December 20, 2003)

### Preporučena literatura

Gerard Jounghyun Kim: Human-Computer Interaction: Fundamentals and Practice, Auerbach Publications, 2015

Research Methods in Human-Computer Interaction, Publisher: Wiley; 1 edition (February 16, 2010)

Designing the User Interface: Strategies for Effective Human-Computer Interaction, Publisher: Addison Wesley; 5 edition (March 8, 2009)

## Metodologija istraživačkog rada

### Obvezna literatura

Čendo Metzinger, T., Toth, M., Metodologija istraživačkog rada za stručne studije. Velika Gorica: Veleučilište Velika Gorica, 2020

Žugaj, Miroslav; Dumčić, Ksenija; Dušak, Vesna. Temelji znanstvenoistraživačkog rada : Metodologija i metodika. Varaždin : Fakultet organizacije i informatike, 2006.

### Preporučena literatura

Silobrčić, Vlatko. Kako sastaviti, objaviti i ocijeniti znanstveno djelo. Zagreb : Medicinska naklada, 1998.

Vujević, Miroslav. Uvođenje u znanstveni rad u području društvenih znanosti. Zagreb : Školska knjiga, 2006.

Zelenika, Ratko. Metodologija i tehnologija izrade znanstvenog i stručnog djela. Rijeka : Ekonomski fakultet, 2000.

Kuhn, Thomas. Struktura znanstvenih revolucija. Zagreb: Naklada Jesenski I Turk I Hrvatsko sociološko društvo, 2013.

Oraić Tolić, Dubravka. Akademsko pismo. Zagreb: Naklada Ljevak, 2011.

Verčić Tkalac, Ana; Sinčić Čorić Dubravka; Pološki Volić, Nina. Priručnik za metodologiju istraživačkog rada : Kako osmisiliti, provesti i opisati znanstveno i stručno istraživanje. Zagreb : MEP, 2010.

## Napredno web programiranje

### Obvezna literatura

Šimec Alen; Programiranje i optimizacija Internet stranica u HTML5 okruženju; Tehničko veleučilište u Zagrebu; 2015.

Masee Mark; REST API Design Rulebook; O'Reilly Media; 2012

Richardson Leonard; Amundsen Mike; Ruby Sam; RESTful Web APIs: Services for a Changing World O'Reilly Media, 2013

### Preporučena literatura

Šimec, Alen; Uvod u HTML, XHTML i CSS; Tehničko veleučilište u Zagrebu; 2011

Nixon, Robin; Learning PHP, MySQL, JavaScript, CSS & HTML5, 3rd Edition; O'Reilly Media; 2014.

Seyed M.M. "Saied" Tahaghoghi; Hugh E. Williams; Learning MySQL; O'Reilly Media; 2007.

S. Sumathi, S. Esakkirajan; Fundamentals of Relational Database Management Systems; Springer; 2007

## Nekonvencionalni računalni postupci

### Obvezna literatura

Igor Livishin: Artificial Neural Networks with Java: Tool for Building Neural Network Applications, Publisher: Apress, 1st edition (April 2019)

Introduction to Neural Networks with Java, Publisher: Heaton Research, Inc. (November 25, 2005)

Programming Neural Networks with Encog3 in Java, Publisher: Heaton Research, Inc. (October 3, 2011)

### Preporučena literatura

Neuro-Fuzzy and Soft Computing: A Computational Approach to Learning and Machine Intelligence, Publisher: Prentice Hall; 1 edition (September 26, 1997)

Timothy J. Ross: Fuzzy Logic with Engineering Applications, Wiley, 4th edition

## Objektno orijentirano programiranje

### Obvezna literatura

Dennis de Champeaux, Douglas Lea, and Penelope Faure: Object-Oriented System Development, Addison Wesley, 1993.

J. Albahari, B. Albahari: C# 5.0 in a Nutshell, Fifth edition, 2012.

### Preporučena literatura

C. Petzold: .NET Book Zero, 2007

T. L. Thai, H. Lam: .NET Framework Essentials, Second edition, 2002.

Sarić, S., C#, Pro-mil , 2007.

Marcus Fontoura, Wolfgang Pree, Bernhard Rumpe: The UML Profile for Framework Architectures, Addison Wesley, First Edition December 01, 2001

## Očuvanje podataka i neprekidnost poslovanja

### Obvezna literatura

Martin Wieczorek, Uwe Naujoks, Robert Bartlett:  
Business continuity: IT risk management for  
international corporations, Distributed Springer, 2002

Baća, M.: „Uvod u računalnu sigurnost”, Narodne  
novine, Zagreb, 2004.

Anderson, R.: Security Engineering: A Guide To  
Building Dependable Systems (vodeći međunarodni  
udžbenik o sigurnosti sustava). Prvo izdanje dostupno  
je u pdf formatu (URL:  
<http://www.cl.cam.ac.uk/~rja14/book.html>)

### Preporučena literatura

ISO/IEC 27001:2005 Information technology --  
Security techniques - Information security  
management systems

Requirements (ISO/IEC 27001:2005), First edition,  
2005.

HRN ISO/IEC 27001:2006 Informacijska tehnologija  
- Sigurnosne tehnike - Sustavi upravljanja  
informacijskom sigurnošću

Zahtjevi (ISO/IEC 27001:2005), Zagreb, Hrvatski  
zavod za norme, 2006.

Radošević, I.: „Model procjene rizika zaštite  
informacijskih sustava u funkciji mjera ljudskih  
resursa”, - izvorni znanstveni rad, VII. Konferencija i  
Zbornik radova: Menadžment i sigurnost – M&S  
2012.

Radošević, I.: „Procjena rizika provedbe planiranih  
mjera zaštite glavnih resursa informacijskih sustava  
primjenom metode ankete”, - izvorni znanstveni rad,  
VII. Međunarodna Konferencija i Zbornik radova:  
„Dani kriznog upravljanja“, 2014.

Zakon o informacijskoj sigurnosti (Narodne novine,  
79/07).

Zakon o zaštiti osobnih podataka (Narodne novine,  
103/03).

Internetske stranice iz područja informacijske i  
podatkovne sigurnosti i zaštite.

## Performanse informacijskih sustava

### Obvezna literatura

M. Harcol-Balter: Performance Modeling and Design of Computer Systems: Queueing Theory in Action, Cambridge University Press, 2013.

Z. Krakar i suradnici: Korporativna informacijska sigurnost, Fakultet organizacije i informatike Sveučilište u Zagrebu, 2014.

### Preporučena literatura

ISO/IEC 25010:2011 Systems and software engineering — Systems and software Quality Requirements and Evaluation (SQuaRE) — System and software quality models

ISO/IEC/IEEE 12207:2017 Systems and software engineering — Software life cycle processes

ISO/IEC 27034-1:2011 Information technology — Security techniques — Application security — Part 1: Overview and concepts

## PHP web-programiranje

### Obvezna literatura

Šimec, Alen; Uvod u HTML, XHTML i CSS; Tehničko vеleučilište u Zagrebu; 2011.

Šimec Alen; Programiranje i optimizacija Internet stranica u HTML5 okruženju; Tehničko vеleučilište u Zagrebu; 2015

Rochkid Marc; Expert PHP and MySQL: Application Design and Development; Apress; 2013

### Preporučena literatura

Nixon, Robin; Learning PHP, MySQL, JavaScript, CSS & HTML5, 3rd Edition; O'Reilly Media; 2014

Seyed M.M. "Saied" Tahaghoghi; Hugh E. Williams; Learning MySQL; O'Reilly Media; 2007.

S. Sumathi, S. Esakkirajan; Fundamentals of Relational Database Management Systems; Springer; 2007.

PHP ([www.php.net](http://www.php.net))

MySQL ([www.mysql.com](http://www.mysql.com))

W3C preporuke ([www.w3c.org](http://www.w3c.org))

W3Schools Online Web Tutorials ([www.w3schools.com](http://www.w3schools.com))

## Programiranje u JAVA jeziku

### Obvezna literatura

Herbert Schildt: Java: The Complete Reference, 12th edition, McGraw Hill, November 2021

Kishori Sharan: Learn JavaFX 17: Building User Experience and Interfaces with Java, Apress, January 2022

### Preporučena literatura

Joshua Bloch: Effective Java, 3rd edition, Addison-Wesley Professional, December, 2017.

Herbert Schildt: Java: A Beginner's Guide, 9th edition, McGraw Hill, January 2022.

## Sigurnost na WEB-u

### Obvezna literatura

Krakar Z. I dr.: Korporativna informacijska sigurnost, FOI 2016.

Harding L.: Snowden dosjei, insajderska priča o najtraženijem čovjeku svijeta EPH Media 2014.

### Preporučena literatura

Vlada Republike Hrvatske, Nacionalna strategija kibernetičke sigurnosti, Vlada Republike Hrvatske, 2016

ISO norma, ISO Standard 27001 revizija 2013, International Organization for Standardization, 2013.

Dr. M.A.C. Dekker, Dimitra Liveri, Cloud Security Guide for SMEs, European Union Agency for Network and Information Security (ENISA), 2015.

Louis Marinos, Adrian Belmonte, Evangelos Rekleitis, ENISA Threat Landscape 2015, European Union Agency for Network and Information Security, 2016

Ministarstvo Gospodarstva, NACIONALNI PKI, Ministarstvo Gospodarstva, 2013

Zakon o električkom potpisu, električkoj trgovini, zaštiti osobnih podataka, i sl.

Dragan Pleskonjić, Nemanja Maček, Borislav Đorđević, Marko Carić; Sigurnost računarskih sistema i mreža, Mikro knjiga, Beograd 2007

## Strategije upravljanja informacijskim sustavima

### Obvezna literatura

Laudon & Laudon: Management Information Systems, 14th ed., Pearson Education, 2016

Klasić, K., Klarin, K. (2009): „Informacijski sustavi – načela i praksa“, Visoka škola za informacijske tehnologije, Zagreb, 2009.

Pavlić, M. (2011): „Informacijski sustavi“, Školska knjiga, Zagreb, 2011.

Radošević, I.: Projektiranje poslovnih informacijskih sustava, VERN, Zagreb 2020.

### Preporučena literatura

Pearlson, K.E., Saunders, C.S.: Managing and Using Information Systems: A Strategic Approach, 4th ed., John Wiley & Sons, Inc., 2010.

Arthur M. Langer Analysis and Design of Information Systems, Third Edition

Dobrović, Ž. : „Strategijsko planiranje, poslovna i informacijska arhitektura“ , CASE 12, Opatija, 2000.

Pališčuk, J.: Informacioni sistemi, Sveučilište Podgorica.

## Sustavi za potporu u odlučivanju

### Obvezna literatura

G. Klepac, L. Mršić, Poslovna inteligencija kroz poslovne slučajeve, Lider, Tim Press, Zagreb, 2006.

Klepac, Goran; Panian, Željko. Poslovna inteligencija. Masmedia. Zagreb. 2003.

### Preporučena literatura

URL: [http://en.wikipedia.org/wiki/Decision\\_support](http://en.wikipedia.org/wiki/Decision_support)

A.B. Whinston: Decision Support Systems and Electronic Commerce, ELSEVIER

Decision Support and Business Intelligence Systems (8th Edition). Prentice Hall. 2006. Ralph Kimball, Joe Caserta.

The Data Warehouse ETL Toolkit: Practical Techniques for Extracting, Cleaning. John Wiley & Sons. 2004.

Dimensional Modeling: In a BI Environment, C.Ballard, D.M.Farell, redbooks

## Sustavi za upravljanje bazama podataka

### Obvezna literatura

Date, C. J.: Database Systems, Addison-Wesley, 2000.

Jeffrey A. Hoffer, Mary Prescott, Fred McFadden: Modern Database Management, 9e, Prentice Hall, 2008

### Preporučena literatura

URL:  
[http://wps.prenhall.com/bp\\_hoffer\\_mdm\\_7/21/5498/1407564.cw/index.html](http://wps.prenhall.com/bp_hoffer_mdm_7/21/5498/1407564.cw/index.html)

Larry Ullman: MySQL, Published by Peachpit Press, 2006

Više autora: SQL Server 2005, O'Reilly, Dobar plan (prijevod), 2006

Mark A. Linsenbardt i M. Shane Stigler: SQL SERVER 7 – Administracija

Database Systems Concepts A. Silberschatz, H.F. Korth, S. Sudarshan McGraw-Hill 2005

## Sustavi za upravljanje bazom znanja

### Obvezna literatura

The New Edge in Knowledge: How Knowledge Management Is Changing the Way We Do Business

Knowledge Management in Theory and Practice, Publisher: The MIT Press; second edition edition (March 4, 2011)

### Preporučena literatura

The Complete Guide to Knowledge Management: A Strategic Plan to Leverage Your Company's Intellectual Capital, Publisher: Wiley; 1 edition (February 8, 2011)

Knowledge Management, Publisher: Capstone; 2 edition (April 3, 2006)

## Upravljanje procesima u poslovanju

### Obvezna literatura

Simone Fiorini, Arun V Gopalakrishnan: Mastering jBPM6, Publisher: Packt Publishing, June 2015

John Jeston: Business Process Management: Practical Guidelines to Successful Implementations, 4th edition, Routhledge, January 2018

### Preporučena literatura

Matt Cumberlidge: Business Process Management with JBoss jBPM, Packt Publishing, July 2007

## Upravljanje projektima

### Obvezna literatura

A Guide to Project Management Body of Knowledge (PMBOK Guide) – Sixth edition, PMI, 2017.

PMI Combined Standard Glossary lokalozirana verzija – hrvatski, Verzija 1.1, PMI Ogranak Hrvatska

### Preporučena literatura

A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Seventh edition, PMI, 2021.

Vodič kroz znanje o upravljanju projektima (Vodič kroz PMBOK), četvrto izdanje, hrvatski prijevod, 2011.

Project Management Case Studies H. Kerzner Willey 2004.

## Web aplikacije u Javi

### Obvezna literatura

Craig Walls: Spring in Action, 6th Edition, Publisher: Manning Publications, March 2022.

### Preporučena literatura

Grupa autora: Beginning Hibernate 6: Java Persistence from Beginner to Pro, Apress, October 2021, ISBN

Greg L. Turnquist: Learning Spring boot 2.0 – Second Edition: Simplify the development of lightning fast applications based on microservices and reactive programming, Packt, November 2017

A. Bampakos, M. Thompson: Angular Projects: Build modern web apps by exploring Angular 12 with 10 different projects and cutting-edge technologies, 2nd edition, Publisher: Packt, July 2021

**Veleučilište Velika Gorica**  
Zagrebačka 5, 10 410 Velika Gorica

Tel: 01/6222-501  
e-mail: [info@vvg.hr](mailto:info@vvg.hr)  
[www.vvg.hr](http://www.vvg.hr)