

## EXAMEN DE LICENȚĂ IULIE 2021

Prezentul material conține tematica și bibliografia recomandată pentru lucrările de licență elaborate în cadrul Facultății de Informatică Managerială, în anul universitar 2020-2021.

TEMA	BIBLIOGRAFIA RECOMANDATĂ
Dezvoltare de aplicații informatice bazate pe programare în limbaj C (C++, C# etc.)	<ol style="list-style-type: none"> <li>1. Stanley B. Lippman, Josee Lajoie, Barbara E. Moo, C++ Primer, Addison-Wesley Professional Ed. (2012)</li> <li>2. Cretan Adina, Analiza și proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>3. Bjarne Stroustrup, The C++ Programming Language, Addison-Wesley Professional Ed. (2013)</li> <li>4. Crișan D.A., Programarea aplicațiilor folosind limbajul C# și platforma .NET, volumul I. Limbajul C#, Ed Prouniversitaria (2015)</li> <li>5. Andrew Troelsen, Philip Japikse, C# 6.0 and the .NET 4.6 Framework (2015)</li> <li>6. <u>John Sharp</u>, Microsoft Visual C# Step by Step, 8th Edition, Developer Reference, (2015)</li> </ol>
Dezvoltare de aplicații informatice bazate pe programare în limbaj Java (Java, Kotlin, Scala, JVM-generic etc).	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza și proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>2. Java The Complete Reference – ISBN: 978-1260440232 - Herbert Schildt (2018)</li> <li>3. Core Java Volume I--Fundamentals – ISBN 978-0135166307 – Cay Horstmann (2018)</li> <li>4. Core Java, Volume II--Advanced Features – ISBN 978-0135166314– Cay Horstman (2019)</li> <li>5. Beginning Jakarta EE Web Development: Using JSP, JSF, MySQL, and Apache Tomcat for Building Java Web Applications – ISBN: 978-1484258651 – Luciano Mineli, Giulio Zambon (2020)</li> </ol>
Dezvoltare de aplicații informatice bazate pe programare în limbaj Python	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza și proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> </ol>

	<ol style="list-style-type: none"> <li>2. Python Crash Course, 2nd Edition: A Hands-On, Project-Based Introduction to Programming – ISBN: 978-1593279288 – Eric Matthes (2019)</li> <li>3. Guide to The Python Programming Language: Start Your Engines and Code: Python Programming for The Absolute Beginner – ISBN/ASIN: B09156FK9H - Akiko Cregin (2021)</li> <li>4. Learning Python: A Crash Course to Learn Coding &amp; Programming with Python In A Week: Learn Coding From Scratch – ISBN/ASIN: B0914CZ7C4 - Tim Sukovaty (2021)</li> <li>5. How to Use MySQL, PHP and Python to Make Practical and Effective Projects – ISBN/ASIN: B09134RFD5 – Angel Johnson (2021)</li> </ol>
<p>Dezvoltare de aplicații informatice bazate pe programare în limbaj Swift</p>	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza si proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>2. Mastering Swift 5: Deep dive into the latest edition of the Swift programming language, 5th Edition – ISBN/ASIN: B07RD3P9PY – Jon Hoffman (2019)</li> <li>3. Mastering Swift 5.3: Upgrade your knowledge and become an expert in the latest version of the Swift programming language – ISBN: 978-1800562158 – Jon Hoffman (2020)</li> <li>4. iOS 14 Programming Fundamentals with Swift: Swift, Xcode, and Cocoa Basics – ISBN: 978-1492092094 – Matt Neuburg (2020)</li> <li>5. iOS 14 Programming for Beginners: Get started with building iOS apps with Swift 5.3 and Xcode 12 – ISBN: 978-1800209749 – Ahmad Sahar (2020)</li> </ol>
<p>Dezvoltare de aplicații informatice bazate pe programare în limbaj VisualBasic</p>	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza si proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>2. Learn Visual Basic, ISBN/ASIN: B07YQ8BVPZ, Philip Conrod (2019)</li> <li>3. Starting Out with Visual Basic, ISBN: 978-0135204658, Tonny Gaddis, Kip Irvine (2019)</li> <li>4. Visual Basic 2019 Handbook: A Concise Guide to VB2019 Programming, ISBN/ASIN: B08PJWJWL1, Liew Voon Kiong (2020)</li> <li>5. Visual Basic .Net and Database: Practical Tutorials, ISBN/ASIN: B08MC57J86, Vivian Siahaan, Rismon Hasiholan Sianipar (2020)</li> </ol>
<p>Dezvoltare de aplicații informatice în domeniul rețelelor de calculatoare</p>	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza si proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> </ol>

	<ol style="list-style-type: none"> <li>2. Computer Networking Problems and Solutions: An Innovative Approach to Building Resilient, Modern Networks, ISBN: 978-1587145049, Russ White, Ethan Banks (2018)</li> <li>3. Beej's Guide to Network Programming: Using Internet Sockets, ISBN: 978-1705309902, Brian "Beej Jorgensen" Hall (2019)</li> <li>4. Hands-On Network Programming with C# and .NET Core: Build robust network applications with C# and .NET Core, ISBN: 978-1789340761, Sean Burns (2019)</li> <li>5. Computer Networking, ISBN/ASIN: B08KF4RQ5N, James F. Kurose, Keith Ross (2020)</li> </ol>
<p>Dezvoltare de aplicații informatice pe baza infrastructurii tehnice .Net</p>	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza si proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>2. Botezatu M.A, G Carutasu, Botezatu C, Managementul proiectelor informatice, Editura ProUniversitaria, București (2016)</li> <li>3. Kenneth E. Kendall, Julie E Kendall, Systems Analysis and Design, 10th Edition, Publisher: Pearson, ISBN 13: 978-0-13-481736-1 (2019)</li> <li>4. Pro C# 8 with .NET Core 3: Foundational Principles and Practices in Programming, ISBN: 978-1484257555, Andrew Troelsen, Phil Japikse (2020)</li> <li>5. Clean architecture with programming in Dot net Programming: Learn by simulation and Dot net Programming practice with experts Learn code by doing, ISBN/ASIN: B08Z8H49FW, Ken Lonsdale (2021)</li> </ol>
<p>Dezvoltare de aplicații informatice pe baza infrastructurii tehnice cu alte baze de date SQL (MariaDB, PostgreSQL, IBM Db2, Hive etc.)</p>	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza si proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>2. Tratat baze de date, vol. II, Sisteme de gestiune a bazelor de date, ASE, București (2015)</li> <li>3. Botezatu M.A, G Carutasu, Botezatu C, Managementul proiectelor informatice, Editura ProUniversitaria, București (2016)</li> <li>4. Kenneth E. Kendall, Julie E Kendall, Systems Analysis and Design, 10th Edition, Publisher: Pearson, ISBN 13: 978-0-13-481736-1 (2019)</li> <li>5. Learn SQL Database Programming: Query and manipulate databases from popular relational database servers using SQL, ISBN: 978-1838984762, Josephine Bush (2020)</li> </ol>



<p>Dezvoltare de aplicații informatice pe baza infrastructurii tehnice cu baze de date Microsoft (MS Access, SQL Server etc.)</p>	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza si proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>2. Alexander M., Kusleika R. – <i>Access 2016 Bible</i>, Wiley, (2015)</li> <li>3. Tratat baze de date, vol. II, Sisteme de gestiune a bazelor de date, Ion Lungu, ASE, București (2015)</li> <li>4. Botezatu M.A, G Carutasu, Botezatu C, Managementul proiectelor informatice, Editura ProUniversitaria, București (2016)</li> <li>5. Finnegan K.T., Oja D., Vodnik S., Shellman M. – <i>New Perspectives Microsoft Office 365 &amp; Access 2016: Comprehensive</i>, Cengage Learning (2016)</li> <li>6. Pierce J. – <i>Exam 77-730 – MOS 2016 Study Guide for Microsoft Access</i>, Microsoft Press (2016)</li> <li>7. Kenneth E. Kendall, Julie E Kendall, Systems Analysis and Design, 10th Edition, Publisher: Pearson, ISBN 13: 978-0-13-481736-1 (2019)</li> <li>8. SQL Server Database Programming with Visual Basic.NET: Concepts, Designs and Implementations, ISBN: 978-1119608509, Ying Bai (2020)</li> </ol>
<p>Dezvoltare de aplicații informatice pe baza infrastructurii tehnice cu baze de date non-SQL (MongoDB, Redis, DynamoDB, CouchDB, CosmosDB etc.)</p>	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza si proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>2. Tratat baze de date, vol. II, Sisteme de gestiune a bazelor de date, ASE, București (2015)</li> <li>3. Botezatu M.A, G Carutasu, Botezatu C, Managementul proiectelor informatice, Editura ProUniversitaria, București (2016)</li> <li>4. Kenneth E. Kendall, Julie E Kendall, Systems Analysis and Design, 10th Edition, Publisher: Pearson, ISBN 13: 978-0-13-481736-1 (2019)</li> <li>5. Learn MongoDB 4.x: A guide to understanding MongoDB development and administration for NoSQL developers, ISBN: 978-1789619386, Doug Bierer (2020)</li> </ol>
<p>Dezvoltare de aplicații informatice pe baza infrastructurii tehnice cu baze de date Oracle</p>	<ol style="list-style-type: none"> <li>1. Tratat baze de date, vol. II, Sisteme de gestiune a bazelor de date, Ion Lungu, ASE, București (2015)</li> <li>2. Botezatu M.A, G Carutasu, Botezatu C, Managementul proiectelor informatice, Editura ProUniversitaria, București (2016)</li> <li>3. Dennis Alan, Systems Analysis and Design, 7th Edition, Wiley, ISBN-13 978-1119496502 (2018)</li> </ol>



	<ol style="list-style-type: none"> <li>4. Kenneth E. Kendall, Julie E Kendall, Systems Analysis and Design, 10th Edition, Publisher: Pearson, ISBN 13: 978-0-13-481736-1 (2019)</li> <li>5. Understanding Oracle APEX 20 Application Development: Think Like an Application Express Developer, ISBN: 978-1484261644, Edward Sciore (2020)</li> <li>6. Kim Berg Hansen, Practical Oracle SQL - Mastering the Full Power of Oracle Database, Apress, ISBN 978-1-4842-5617-6 (2020)</li> </ol>
<p>Dezvoltare de aplicații informatice pe baza infrastructurii tehnice PHP/MySQL (standard și/sau framework-uri specifice)</p>	<ol style="list-style-type: none"> <li>1. Manualul tau de PHP – ISBN 978-973-750-282-8 – Traian Anghel (2012)</li> <li>2. MySQL Cookbook: Solutions for Database Developers and Administrators – ISBN: 978-1449374020 – Paul DuBois (2014)</li> <li>3. Botezatu M.A, G Carutasu, Botezatu C, Managementul proiectelor informatice, Editura ProUniversitaria, București (2016)</li> <li>4. Learning PHP, MySQL &amp; JavaScript: With jQuery, CSS &amp; HTML5, ISBN: 978-1491978917, Robin Nixon (2018)</li> <li>5. Beginning PHP and MySQL: From Novice to Professional – ISBN: 978-1430260431 – Frank M. Kromann (2018)</li> </ol>
<p>Dezvoltarea de aplicații web bazate pe infrastructură JavaScript (front-end/back-end, standard și/sau framework-uri specifice)</p>	<ol style="list-style-type: none"> <li>1. Cretan Adina, Analiza si proiectarea sistemelor informatice, ISBN: 978-606-647-799-4, Editura Pro Universitaria (2013)</li> <li>2. Tratat baze de date, vol. II, Sisteme de gestiune a bazelor de date, Ion Lungu, ASE, București (2015)</li> <li>3. Botezatu M.A, G Carutasu, Botezatu C, Managementul proiectelor informatice, Editura ProUniversitaria, București (2016)</li> <li>4. New Perspectives HTML5 and CSS3: Comprehensive – ISBN 978-1305503939 – Patrick M. Carey (2017)</li> <li>5. Web Programming with HTML5, CSS, and JavaScript – ISBN 978-1284091793 – John Dean (2018)</li> <li>6. Kenneth E. Kendall, Julie E Kendall, Systems Analysis and Design, 10th Edition, Publisher: Pearson, ISBN 13: 978-0-13-481736-1 (2019)</li> <li>7. HTML5, CSS, and JavaScript: Learn the Basics of HTML5, JavaScript, &amp; CSS with Practical Exercises of Computer Programming Languages – ISBN 978-1694550262 – Brandon Cooper (2019)</li> </ol>



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