



**UNIVERSITY COLLEGE OF ENGINEERING
(KAKATIYA UNIVERSITY)**

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No: 07/Admn/UCE/KU/2022

Date: 10-01-2022

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Engineering (K.U.)
KOTHAGUDEM-507 101

Encl: List of Text books



B Tech (Mining) 3rd year 1st

Sem
ROCK MECHANICS

1. Deb D and Verma AK "Fundamental and application of rock mechanics", PHI publication
2. Debasis Deb, "Finite element method: concepts and application in geo mechanics"
3. SP Timoshenko, JN. Goodier, "Theory of Elasticity"
4. V Singh and B P Khare, "Rock Mechanics and ground control"
5. Obert and Duvall, "Rock Mechanics and design of structures in rock"
6. Jumikis, "Rock Mechanics"
7. Goodman, "Introduction to Rock Mechanics"
8. Bieniawski ZT, "Engineering rock mass classification"
9. Singh & Goel, "Rock mass classification"

UNDERGROUND MINING METHODS (COAL)

1. Mathur SP, "Coal Mining in India", Sahyog Prakashan, Chhattisgarh
2. Singh JG, "Underground Coal Mining Method". Braj Kalpa Publishers, Varanasi
3. Samir Kumar Das, "Modern Coal Mining Technology". Lovely Prakashan, Dhanbad
4. Vorobjev BM & Deshmukh RT, "Advance Coal mining Vol – I & II"
5. Woodrooff CD, "Methods of working coal and metal mines" Vol - III

MINE HAZARDS & RESCUE

Text / Reference books:

1. Ramulu MA, "Mine Fires explosions, rescue, recovery and illuminations",
2. Kaku Fifes in coal mines "
3. DJ Deshmukh, "Elements of Mining Technology" Vol. -II

MINING MACHINERY

1. Karelin, "Mine Transport".
2. DJ Deshmukh, "Elements of Mining Technology" Vol. -III
3. Rakesh and Lele, "Selection and installation of mine pumps"
4. Hartmen, "Introduction to Mining Engineering"
5. Statham, "Coal Mining Practice"

MINING INSTRUMENTATION AND AUTOMATION

1. Hustrulid, "Underground Mining Methods Handbook" SME NY, 1994
2. Society of Mining Engineering Handbooks –Vol. I and II
3. Peng, S.S., "Longwall Mining", John Wiley and Sons
4. Ervin, M.C., In situ testing for geotechnical investigations, A. A. Balkema, 1983.
5. Hunt, R.E., "Geotechnical Engineering investigation manual", CRC Press, 2005
6. R. Ulusay, "The ISRM Suggested Methods for Rock Characterization, Testing and Monitoring", 2007-2014, Springer, 2016.
7. Ian F. Akyildiz, "Wireless Sensor Networks", A John Wiley and Sons, Ltd, Publication
8. David J. Daniels, "Ground penetrating radar", Institution of Engineering and Technology, 2004

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1. Obert and Duvall, "Rock Mechanics and design of structures in rock".
2. Peng, "Coal mining Ground control"
3. Jager and cook, "Fundamentals of rock mechanics "

UNDERGROUND MINING METHODS (METAL)

Text / Reference books:

1. Woodroof SC, "Methods of working coal and metal mines" Vol. III
2. Shevyakov, "Mining and mineral deposits"
3. DJ Deshmukh, "Elements of Mining Technology" Vol. -II
4. Peele, "Mining Engineers handbook". Vol. I & II
5. Popov, "Working of Mineral Deposits"

**SURFACE MINING
METHODS**

1. SK Das, "Surface Mining Technology"
2. Mishra GB, "Surface Mining".
3. Hustruid W and Kuchta M, "Open Pit Mine Planning & Design". Vol.-I
4. Hustruid W, McCarter MK and Van Zyl D, "Slope Stability in Surface Mining"
5. Deshmukh RT & Khare BP, "Sciences & Technology of Opencast Mining"

MINING MECHANIZATION

1. Karelin, "Mine Transport "
2. DJ Deshmukh, "Elements of Mining Technology" Vol-III
3. Walker, "Mine winding and transport"
4. John Pipenger and Tyler Hicks, "Industrial Hydraulics"
5. Statham, "Coal Mining Practice"
6. Chang & Peng, "Longwall Mining"

FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE

1. Elaine rich, Kevin knight and Shivashankar B Nair "Artificial Intelligence", Third Edition, McGraw Hill, ISBN No: 978-0-07-008770-5, 2015
2. Deepak Khemani, "A First Course in Artificial Intelligence" First Edition, McGraw Hill Education, ISBN No: 978-1259029981, 2013
3. Patterson, "Introduction to Artificial Intelligence" First Edition, 2000, Pearson Education India, ISBN No: 978-8120307773, 2015.
4. Russell, "Artificial Intelligence" Third Edition, Pearson Education India, ISBN No: 978-9332543515, 2015.

MINERAL EXPLORATION & RESERVE ESTIMATION

1. M S Krishnaswamy, "Mineral Deposits"
Arogyaswamy, "A Text book of Mining Geology"
William I Smith, "Remote sensing application in mineral exploration"

MINE SURFACE ENVIRONMENT MANAGEMENT

1. Hartman HL. Mine ventilation and air conditioning. Wiley, Newyork. 1999.

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2. Mishra GB. Mine environment and ventilation. Oxford University Press. 1992.
3. Mackenthun KM. Basic concepts in environmental management. Lewis publications, London. 1998.
4. Shyam D and Armin R. Environmental law and policy in India. Oxford University Press, New Delhi. 2001.

ROCK EXCAVATION ENGINEERING

1. Cummings AB and Given IV. SME mining engg. vol. I and II, America. 1992.
2. Hartman HL. Introductory mining engineering. John Wiley and Sons, New York. 1987.
3. Chugh CP. Diamond drilling. Oxford-IBH. 1984.
4. Clark GB. Principles of rock fragmentation. John Wiley and Sons, New York. 1987.

B Tech (Mining) 4th year 1st Sem

MINE PLANNING

1. Jayanth Bhattacharya, Principles of Mine Planning-Allied Publishers, Delhi 2003.

NUMERICAL MODELLING IN MINING

1. Desai CS and Abel JF. Introduction to the finite element method. Van Nostrand Riehl Co., New York. 1983.
2. D Deb. Finite element method: concepts and application in geo-mechanics. PHI publishers. 2012.

MINERAL PROCESSING

1. Malleswar Rao, 'Introduction to mineral processing Vol. I and II

HUMAN RESOURCE MANAGEMENT

1. Gary Dessler, Biju Varkkey, Human Resource Management, 4e, Pearson 2017

CYBER LAW AND ETHICS

1. Cyber Laws: Intellectual property & E Commerce, Security- Kumar K, dominant Publisher
2. Cyber Ethics 4.0, Christoph Stuckelberger, Pavan Duggal, by Globethic
3. Information Security policy & Implementation Issues, NIIT, PHI
4. Computers, Internet and New Technology Laws, Karnika Seth, Lexis Nexis Butterworths Wadhwa Nagpur.

INTELLECTUAL PROPERTY RIGHTS

1. Deborah E. Bouchoux: "Intellectual Property". Cengage learning, New Delhi
2. Kompal Bansal & Parishit Bansal "Fundamentals of IPR for Engineers", BS Publications (Press)

B Tech (Mining) 4th year 2nd Sem

MINE LEGISLATION AND SAFETY

1. Mines Act 1952, lovely Prakashan, Dhanbad, 1995.
2. Coal Mine Regulations, 1961, lovely Prakashan, Dhanbad, 1995.
3. Metal Mine Regulations, 1961, lovely Prakashan, Dhanbad, 1995.

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4. DGMS Circulars, By National Council of Safety in Mines, Dhanbad, 1995.
5. The Mines Rescue Rules, 1986, lovely Prakashan, Dhanbad, 1995.
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MINE ECONOMICS

1. Deshmukh RT – Mineral Economics, Meera Publishers, Nagpur
2. Sharma N L – Mineral Economics

MARINE MINING

2. Herbich, J.B., Coastal and Deep Ocean Dredging, Gulf Publishing Co. Houston, 1975.
3. Murthy, T.K.S., Mining the Ocean, CSIR Golden Jubilee Series, CSIR Publications, New Delhi

MINE SUBSIDENCE ENGINEERING

1. Peng, Coal Mine Ground Control
2. Surface Subsidence Engineering: Theory and Practice

ROCK FRAGMENTATION ENGINEERING

1. Pradhan G K., Ghosh A K `Drilling & Blasting` Mine Technology
2. Sastry V R “Advanced in Drilling and Blasting”

REMOTE SENSING & GEOGRAPHICAL INFORMATION SYSTEM

1. Anji Reddy M. Remote sensing and geographical information systems. 3rd edition. 2008.

ROCK SLOPE ENGINEERING

1. Singh, R.N. and Ghose, A.K., Engineered Rock Structures in Mining and Civil Construction, A.A.Balkema, Netherlands, 2006.
2. Rock Slope Engineering: Civil and Mining by Duncan C. Wyllie.

DISASTER MANAGEMENT

1. T. Bhattacharya,” Disaster Science and Management” McGraw Hill Education (India) Pvt. Ltd Wiley 2015
2. Mrinalini Pandey, “Disaster Management” Wiley 2014
3. Manual on Disaster Management, National Disaster Management, Agency Govt of India
4. N. Pandharinath, CK Rajan,” Earth and Atmospheric Disasters Management” BS Publications 200

OPERATION RESEARCH

1. J K Sharma,” Operation research ” MacMilan Publications
2. A. M. Natarajan, P. Balasubramaniam, A. Tamilarasi,” Operation research ” Pearson Publications
3. P Rama Murthy, ” Operation research ” New Age International Publishers

HUMAN VALUES AND PROFESSIONAL ETHICS

1. D.R. Kiran, *Professional Ethics and Human Values*, New York: McGraw Hill, 2013.
2. Govindarajan. M, Natarajan. S, Senthil Kumar. V.S, *Professional Ethics and Human Values*, New Delhi: Prentice Hall of India, 2013.
3. Mike Martin and Roland Schinzinger, *Ethics in Engineering*, 4th ed. New York: McGraw Hill, 2014.
4. Charles D. Fleddermann, *Engineering Ethics*, 4th ed. New Delhi: Prentice Hall, 004.

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B. Tech. (CE&IT) 3rd year 1st Sem

DATABASE MANAGEMENT SYSTEMS

1. Database Management Systems, Raghurama Krishnan, Johannes Gehrke, Tata McGraw Hill 3rd Edition
2. Database System Concepts, Silberschatz, Korth, Mc Graw hill, V edition
3. Database Systems design, Implementation, and Management, Peter Rob & Carlos Coronel, 7thEdition
4. SQL The Complete Reference, James R. Groff, Paul N. Weinberg, 3rd Edition,
5. Database Systems Using Oracle: A Simplified guide to SQL and PL/SQL, Shah, PHI

THEORY OF COMPUTATION

1. John E. Hopcroft, Rajeev Motwani and Jeffrey D. Ullman, Introduction to Automata Theory, Languages, and Computation, Pearson Education Asia, 3rd Edition, ISBN: 978-1292039053, 2013
2. Mishra K.L.P., Chandrasekaran N, "Theory Of Computer Science: Automata, Languages and Computation", PHI Learning Pvt. Ltd., 3rd Edition, ISBN: 978-81-203-2968-3, 2012
3. Harry R. Lewis and Christos H. Papadimitriou, Elements of the Theory of Computation, Pearson Education Asia, 2nd edition, ISBN: 978-0132624787, 1998.
4. Michael Sipser, Introduction to the Theory of Computation, PThomson South-Western, 3rd Edition, ISBN: 1133187811, 2012.
5. John Martin, Introduction to Languages and The Theory of Computation, Tata McGraw- Hill Education Pvt. Ltd., 4th Edition, ISBN: 9780073191461, 2010
6. Dexter C. Kozen, Automata and Computability, Undergraduate Texts in Computer Science, Springer, 1stEdition, ISBN: 9781461273097, 2012.

WEB PROGRAMMING

1. Steven Holzner, "HTML Black Book", DreamTech press
2. Web Technologies, Black Book, DreamTech Press
3. Web Applications: Concepts and Real World Design, Knuckles, Wiley-India
4. Internet and World Wide Web How to program, P.J. Deitel & H.M. Deitel Pearson.

ADVANCED JAVA

1. Herbert Schildt, Java Complete Reference Tenth Edition, McGraw Hill.
2. JDBC, Servlets and JSP black book, Dreamtech Publishers
3. Uttam K. Roy, Advanced Java programming, Oxford University Press.
4. Bert Bates, Kathy Sierra and, Bryan Basham, "Head First Servlets & JSP", O'Reilly
5. Sharanam Shah, Vaishali Shah, Java EE 7 for Beginners
6. Cay S. Horstmanns, Gray Coronell, Core Java Vol. II – Advanced Features
7. Joel Murach, Michael Urban, Java Servlets and JSP, 3rdEdition, 2014
8. Cay S. Horstmann, Core Java Volume I – Fundamentals, Pearson, 2019
9. Joel Murach, Java Programming, 5thEdition, 2017

DOTNET TECHNOLOGIES

1. VB.NET Complete Reference – Jeffrey R. Shapiro – Tata McGrawHill – 2006 20
2. Mastering Visual Basic. NET – Evangelos Petroustos – BPB Publications - 2005 20
3. ADO.NET Complete Reference – Michael Otey , Denielle Otey, Tata McGrawHill, 2005 10
4. Mastering Visual Basic. NET Database Programming– Evangelos Petroustos , Ali Bilgin– BPB Publications – 2002 10
5. Pro C# with .NET 3.0 – Andrew Troelsen – Special Edition 20

ADVANCED DATA STRUCTURES

1. Mark Allen Weiss, Data Structures and Algorithm Analysis in C++, 2nd Edition, Pearson, 2004.
2. M T Goodrich, Roberto Tamassia, Algorithm Design, John Wiley, 2002. Vikas Gupta
3. Mark Allen Weiss, "Data Structures and Algorithm Analysis in Java", Third Edition, Published by Addison-Wesley, 2012, ISBN: 0-132-57627-9 / 9780132576277.
4. Mark Allen Weiss, "Data Structures and Problem Solving Using Java", Fourth Edition, Published by Addison-Wesley, 2010, ISBN: 0-321-54140-5.
5. Goodrich, Tamassia, Goldwasser, "Data Structures and Algorithms in Java", Sixth Edition, Wiely, 2014, ISBN-13 : 978-8126551903.
6. Michael T. Goodrich, Roberto Tamassia, "Algorithm Design and Application", Fourth Edition, Wiely, 2014, ISBN: 978-1-118-33591-8.

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COMPILER DESIGN

1. A.V. Aho, M.S. Lam, R. Sethi and J.D. Ullman, "Compilers: Principles, Techniques and Tools", 2nd edition, Pearson Education, 2007.
2. Allen I. Holub, "Compiler Design in C", 1st edition, Prentice Hall of India, 2003.
3. C. N. Fischer and R. J. LeBlanc, "Crafting a compiler with C", 1st edition, Benjamin Cummings, 2003.
4. J.P. Bennet, "Introduction to Compiler Techniques", 2nd edition, Tata McGraw-Hill, 2003.
5. Henk Alblas and Albert Nymeyer, "Practice and Principles of Compiler Building with C", 3rd edition, Pearson/Prentice Hall India, 2001.
6. Kenneth C. Loudon, "Compiler Construction: Principles and Practice", 1st edition, Thompson Learning, 2003.
7. K. Muneeswaran "Compiler Design" 1st edition. Oxford University press, 2012.

COMPUTER NETWORKS

1. Computer Networks -- Andrew S Tanenbaum, 4th Edition, Pearson Education.
2. Data Communications and Networking – Behrouz A. Forouzan, Fourth Edition TMH, 2006.
3. An Engineering Approach to Computer Networks-S.Keshav, 2nd Edition, Pearson Education
4. Understanding communications and Networks, 3rd Edition, W.A. Shay, Cengage Learning.
5. Computer and Communication Networks , Nader F. Mir, Pearson Education
6. Computer Networking: A Top-Down Approach Featuring the Internet, James F. Kurose, K.W. Ross, 3rd Edition, Pearson Education.

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SOFTWARE ENGINEERING

1. Roger S. Pressman, "Software Engineering, A Practitioner's Approach", 6th Edition, McGraw-Hill International Edition.
2. Ian Sommerville, "Software Engineering", 7th Edition, Pearson Education
3. Grady Booch, James Rumbaugh, Ivar Jacobson, "The Unified Modeling Language User Guide", Pearson Education
4. James F. Peters, Witold Pedrycz, "Software Engineering: An Engineering Approach", John Wiley.
5. Waman S. Jawadekar, "Software Engineering Principles and Practice", The McGraw-Hill Companies.

ARTIFICIAL INTELLIGENCE

1. Elaine Rich, Kevin Knight and Shivashankar B. Nair, "Artificial Intelligence", Third Edition, McGraw-Hill, ISBN No: 978-0-07-008770-5, 2015.
2. Deepak Khemani, "A First Course in Artificial Intelligence", First Edition, McGraw Hill Education, ISBN No: 978-1259029981, 2013.
3. Patterson, "Introduction to Artificial Intelligence" First Edition, 2000, Pearson Education India, ISBN No: 978-8120307773, 2015

DISTRIBUTED DATABASES

1. M. Tamer Özsu and Patuck Valduriez: Principles of Distributed Database Systems, Pearson Edn. Asia, 2001.
2. Stefano Ceri and Giuseppe Pelagatti: Distributed Databases, McGraw Hill
3. Hector Garcia-Molina, Jeffrey D. Ullman, Jennifer Widom: "Database Systems: The Complete Book", Second Edition, Pearson International Edition

MOBILE APPLICATION DEVELOPMENT

1. Professional Android 4 Application Development, Reto Meier, Wiley India, (Wrox), 2012
2. Android Application Development for Java Programmers, James C. Sheusi, Cengage Learning, 2013
3. Beginning Android 4 Application Development, Wei-Meng Lee, Wiley India (Wrox), 2013

ADVANCED DATABASE MANAGEMENT SYSTEMS

1. Raghu Ramakrishnan and Johannes Gehrke, "Database Management Systems", Third Edition, McGraw Hill Education, ISBN No: 978-9339213114, 2014.
2. Ramez Elmasri and Shamkant B. Navathe, "Fundamentals of Database Systems", Seventh Edition, Pearson Education, ISBN No: 978-9332582705, 2017.
3. Stefano Ceri, Giuseppe Pelagatti, "Distributed Databases: Principles and Systems", McGraw Hill Education, ISBN No: 978-0070265110, 2017.
4. M. Tamer Özsu, "Principles of Distributed Database Systems", Pearson Education, ISBN No: 978-8177581775.

ADVANCED OPERATING SYSTEMS

1. Advanced Concepts in Operating Systems, Mukesh Singhal, Niranjana G. Shivaratri, Tata McGraw Hill Edition 2001

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2. Distributed Systems: Andrew S. Tanenbaum, Maarten Van Steen, Pearson Prentice Hall, 2nd Edition, 2007
3. Sinha, Distributed Operating Systems Concepts and Design, IEEE Computer Society Press, 1997

COMPUTER GRAPHICS

1. Steven Harington , "Computer Graphics", TMH.
2. Foley, Van Dam, Feiner, Hughes, "Computer Graphics: Principles and Practice in C", 2nd Edition, Pearson Education
3. Donald Hearn and M.Pauline Baker, "Computer Graphics C Version", Pearson Education
4. David F Rogers, "Procedural Elements For Computer Graphics", 2nd Edition Tata Mc Graw Hill
5. Neuman and Sproul, "Principles of Interactive Computer Graphics", The Mc Graw Hill
6. Shalini Govil, "Principles of Computer Graphics", 2005, Springer.

B. Tech. (CSE, IT) 4th year 1st Sem **PYTHON PROGRAMMING**

1. Learning Python, Fifth Edition by Mark Lutz, Published by O_Reilly Media, ISBN: 978-1-449-35573-9.
2. Yashavant Kanetkar, Let Us Python (1 ed.), BPB Publishers, 2019. ISBN 978-9388511568.
3. Chun, J Wesley, Core Python Programming, 2nd Edition, Pearson, 2007 Reprint 2010.
4. C. Dierbach, Introduction to Computer Science Using PYTHON: A Computational Problem-Solving Focus (1 ed.), Wiley, 2015. ISBN 978-8126556014. b)
5. Martin C. Brown, Python: The Complete Reference (1 ed.), McGraw-Hill, 2001. ISBN 978-0072127188.
6. Programming Python, 4TH Edition by Mark Lutz, O'Reilly

SOFTWARE TESTING

1. Software Testing techniques – Boris Beizer, Dreamtech, second edition.
2. The craft of software testing - Brian Marick, Pearson Education.
3. Software Testing, 3rd edition, P.C.Jorgensen, Aurbach Publications(Dist.by SPD).3.Software Testing,N.Chauhan,Oxford University Press.
4. Introduction to Software Testing, P.Ammann&J.Offutt, Cambridge Univ. Press.5.Effective methods of Software Testing, Perry, John Wiley, 2nd Edition, 1999.
5. 6.Software Testing Concepts and Tools, P.Nageswara Rao, dreamtech Press. 7.Software Testing, M.G.Limaye, TMH.
6. Software Testing, S.Desikan, G.Ramesh, Pearson.
7. Foundations of Software Testing, D.Graham & Others, Cengage Learning.10.Software Testing Tools – Dr.K.V.K.K.Prasad, Dreamtech.

OBJECT ORIENTED ANALYSIS AND DESIGN

1. Grady Booch, James Rumbaugh, Ivar Jacobson: The Unified Modeling Language User Guide, Pearson Education 2nd Edition.
2. Object-Oriented Analysis and Design with the Unified Process By John W. Satzinger, Robert B Jackson and Stephen D Burd, Cengage Learning.

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3. Meilir Page-Jones: Fundamentals of Object Oriented Design in UML, Pearson Education.
4. Pascal Roques: Modeling Software Systems Using UML2, WILEY-Dreamtech India Pvt. Ltd.
5. Atul Kahate: Object Oriented Analysis & Design, The McGraw-Hill Companies.
6. Mark Priestley: Practical Object-Oriented Design with UML, TMH.
7. Applying UML and Patterns: An introduction to Object – Oriented Analysis and Design and Unified Process, Craig Larman, Pearson Education.
8. Object Oriented Analysis, Design and Implementation, B. Dathan, S. Ramnath, Universities Press.

MACHINE LEARNING

1. Machine Learning. Tom Mitchell. First Edition, McGraw- Hill, 1997.
2. Machine Learning: An Algorithmic Perspective, Stephen Marshland, Taylor & Francis

SOFT COMPUTING

1. Soft Computing – Advances and Applications - Jan 2015 by B.K. Tripathy and J. Anuradha – Cengage Learning
2. James A. Freeman and David M. Skapura, –Neural Networks Algorithms, Applications, and Programming Techniques, Pearson Edn., 2003.
3. S. N. Sivanandam, S. Sumathi and S. N. Deepa, –Introduction to Fuzzy Logic using MATLAB, Springer, 2007
4. S.N.Sivanandam · S.N.Deepa, –Introduction to Genetic Algorithms, Springer, 2007.
5. David E. Goldberg, –Genetic Algorithms-In Search, optimization and Machine learning, Pearson Education.
6. J. S. R. Jang, C.T. Sun and E.Mizutani, –Neuro-Fuzzy and Soft Computing, Pearson Education, 2004.
7. G.J. Klir & B. Yuan, –Fuzzy Sets & Fuzzy Logic, PHI, 1995.
8. Melanie Mitchell, –An Introduction to Genetic Algorithms, PHI, 1998.
9. Timothy J. Ross, –Fuzzy Logic with Engineering Applications, McGraw- Hill International editions, 1995

CRYPTOGRAPHY AND NETWORK SECURITY (PE4106CS)

1. Cryptography and Network Security by William Stallings 5th Edition, Pearson Education.
2. Information Security, Principles and Practice by Mark Stamp, Wiley India.
3. Applied Cryptography by Bruce Schneier, 2007.
4. Cryptography and Data Security, Denning D, Addison Wesley, 1982.
5. Cryptography and Network Security : Forouzan, Mukhopadhyay, MC Graw Hill, 2nd Edition.

CLOUD COMPUTING

1. Cloud Computing (Principles and Paradigms) :Rajkumar Buyya, James Broberg, Andrzej Goscinski, John Wiley & Sons, Inc
2. Mastering Cloud Computing: Rajkumar Buyya, Christian Vecchiola and S. Thamarai Selvi, McGrawHill Education 978-1259029950
3. Cloud computing for dummies- Judith Hurwitz , Robin Bloor , Marcia Kaufman ,Fern Halper, Wiley Publishing, Inc, 2010
4. Cloud computing a practical approach - Anthony T.Velte , Toby J. Velte Robert Elsenpeter,

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TATAMcGraw- Hill , New Delhi – 2010

5. Cloud Computing: Web-Based Applications That Change the Way You Work and Collaborate

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DATA SCIENCE

1. Cathy O'Neil and Rachel Schutt. Doing Data Science, Straight Talk from The Frontline. O'Reilly.
2. Jure Leskovek, Anand Rajaraman and Jeffrey Ullman. Mining of Massive Datasets. v2.1, Cambridge University Press.

BIG DATA ANALYTICS

1. Big Data and Analytics, Seema Acharya, Subhasinin Chellappan, Wiley publications.
2. Big Data, Black BookTM , DreamTech Press, 2015 Edition.
3. Business Analytics 5e , BY Albright |Winston
4. Rajiv Sabherwal, Irma Becerra- Fernandez, Business Intelligence –Practice, Technologies and Management, John Wiley 2011.
5. Lariss T. Moss, Shaku Atre, –Business Intelligence Roadmap, Addison-Wesley It Service.
6. Yuli Vasiliev, –Oracle Business Intelligence: The Condensed Guide to Analysis and Reporting, SPD Shroff, 2012.

IMAGE PROCESSING

1. Rafeal C Gonzalez and Richard E.Woods, –Digital Image Processing, 4th edition, Pearson Education/ PHI, 2018.
2. Milan Sonka, Vaclav Hlavac and Roger Boyle, –Image Processing, Analysis and Machine Vision, 4th edition, Cengage, 2015.
3. Alasdair McAndrew, –Introduction to Digital Image Processing with Matlab, Thomson Course Technology, 2004 Course Technology Press, Boston, MA, United States, 2004.
4. William K. Prat, —Digital Image Processing, 4th edition, Wiley-Interscience, A John Wiley & Sons, Inc., Publication, 2007.

PATTERN RECOGNITION

1. Pattern Classification by Richard O. Duda, Peter E. Hart, David G. Stork, Wiley, 2001.
2. Pattern Recognition : Sergios Theodoridis and Konstantinos Koutroumbas, Elsevier
3. Pattern Recognition and Machine Learning : Christopher Bishop, Springer
4. Pattern Recognition: An algorithmic approach: Murty, M.Narsimha, Devi, V. Susheela, Sringer Pub, 1stEd.

NON CONVENTIONAL ENERGY SOURCES

1. Rai G.D, Non-Conventional Sources of Energy, Khandala Publishers, New Delhi, 1999.
2. M.M. El-Wakil, Power Plant Technology. McGraw Hill, 1984.

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BASICS OF IoT

1. -Internet of Things - Converging Technologies for smart environments and Integrated Ecosystems, River Publishers.
2. Adrian McEwen, Hakim Cassimally, -Designing the Internet of Things, Wiley India Publishers
3. Daneil W lewies, -Fundamentals of embedded software: where C meets assembly, Pearson.
4. Arshdeep Bahga, -Internet of things -A hands on Approach Universities press.

BASICS OF ALLOY STEEL STRUCTURES

1. Introduction to Physical Metallurgy – SH Avner, TATA Mc GRAW HILL ,1997
2. Alloys Steels – Wilson
3. 1.Materials Science and Engineering, An introduction. WD Callister, Jr., Adapted by R. Balasubramaniam, John Wiley & Sons, NY, Indian edition, 2007

VLSI DESIGN

1. Essentials of VLSI circuits and systems – Kamran Eshraghian, Eshraghian Douglas and A. Pucknell, PHI, 2005 Edition
2. CMOS VLSI Design – A Circuits and Systems Perspective, Neil H. E Weste, David Harris, AyanBanerjee, 3rd Ed, Pearson, 2009.
3. VLSI Design – M. Michael Vai, 2001, CRC Press
4. Introduction to VLSI Systems: A Logic, Circuit and System Perspective – Ming-BO Lin, CRC Press, 2011
5. CMOS logic circuit Design - John .P. Uyemura, Springer, 2007.
6. Modern VLSI Design - Wayne Wolf, Pearson Education, 3rd Edition, 1997.
7. VLSI Design- K .Lal Kishore, V. S. V. Prabhakar, I.K International, 2009.
8. Introduction to VLSI – Mead & Convey, BS Publications, 2010.

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B. Tech. (EEE) 3rd year 1st Sem

Linear Control Systems

1. I.J.Nagrath & M.Gopal, Control System Engineering, 4th ed., New Delhi: New Age International Pvt. Ltd., 2012
2. B.C.Kuo - Automatic Control Systems, Wiley India edition, 7th Edition, 2002.
3. K.Ogata - Modern Control System, Prentice Hall of India, 4th edition, 2002.
4. N.C.Jagan - Control Systems, B.S Publications, 2nd edition, 2008.
5. S.Palani, Control Systems Engineering, 2nd ed., New Delhi: Tata McGraw Hill Education (India) Pvt.Ltd.
6. A.Anand Kumar, control systems, 2nd ed., New Delhi: Prentice Hall of India, 2014
7. A.Nagoorkani, Control Systems, 2nd ed., New Delhi: RBA Publications'.

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