B.Tech. (MECHANICAL ENGINEERING)

ME- 201 THERMAL ENGINEERING – I

1. Engineering Thermodynamics by P.K.Nag, Tata Mcgraw Hill Publishing
2. Engineering Thermodynamics byRogers, Pearson Education.
3. Thermodynamics by Kenneth Wark, Mcgraw-hill Book Company.
4. Engineering Thermodynamics by Gordon Rogers and Yon Mayhew, Pearson
5. Fundamentals of Classical Thermodynamics by Van Wylen and Sonntag, John Wiley & Sons Inc.
6. Fundamentals of Engineering Thermodynamics by Moran and Shaprio, John Wiley & Sons, Inc.
7. Thermodynamics: An Engineering Approach by Cengel and Boles, The McGraw-Hill Companies.
8. Applied Thermodynamics for Engineering TechnologistsbyT.D. Eastop, Longman publisher.
9. Treatise on Heat Engineering by V. P.Vasandani and D.S. Kumar, Metropolitan Book Co. (p) Ltd.

ME-202ENGINEERING MATERIALS AND METULLURGY

1. Material Science & Engineering,V**.**Raghavan Prentice Hall India 2001.
2. Material Science Processes,R.B. Gupta, SatyaPrakashan, N Delhi, 2000.
3. Materials & Processes in Manufacture, Degarmo E. Paul et.al PHI, 2001.
4. Engineering Metallurgy Part 1,Raymond A Higgim., PHI, 1998.
5. Principles of Engineering Metallurgy, L. Krishna Reddy, New Age
6. Engineering Materials & Properties,.Buduisky et al, " PHI, 2004
7. Physical Metallurgy,PeterHaasten, Cambridge Univ. Press, 1996

ME-203 NUMERICAL TECHNIQUES

1. Applied Numerical Analysis: Curtis F. Gerald and Patrick G. Wheatley- Pearson, Education Ltd.
2. Numerical Method: E. Balagurusamy T.M.H.
3. Numerical Methods for Scientific and Engg. Computations: M.K.Jain, S.R.K. Iyenger and R.K. Jain- Wiley Eastern Ltd.
4. Introductory Methods of Numerical Analysis: S.S.Sastry, P.H.I.
5. Advance Engineering Mathematics, Vol 2, H.C. Taneja , I.K. International

ME-204 Quantitative Techniques

1. Quantitative Methods by J K Sharma, MacMillan Publishers.
2. Quantitative Methods for Business by Anderson, Cengage Learning
3. Business statistics by Bajpai, Pearson India

ME-205 ENGINEERING MECHANICS

1. FeMechanics for Engineers: Statics, rdinand P Beer and E Russel Johnson. Tata Mcgraw hill Publishing Company Limited.
2. Engineering Mechanics: Statics; Meriam and Kraige, John Willey & Sons.
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4. S.Timoshenko and D.H.Young; Engineering Mechanics", McGrawHill.
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ME-206 ENGINEERING ECONOMICS AND ACCOUNTANCY

1. Engineering Economy, Sullivan, Wicks, and Koelling, Pearson International

2. Macroeconomics: Understanding the Wealth of Nations by David Miles and Andrew Scott, Wiley

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1. Engineering Thermodynamics by Gordon Rogers and Yon Mayhew, Pearson
2. Thermal Engineering by S. Domkundwar, DhanpatRai& Co (p) Ltd
3. Applied Thermodynamics by Onkar Singh, New Age International (p)
4. Gas Turbines by Cohen & Rogers, Pearson Prentice Hall
5. Fundamentals of Gas Dynamics By Robert D. Zucker and Oscar Biblarz, John Wiley & Sons, Inc.
6. Fundamentals of Gas Dynamics by Robert P. Benedict, John Wiley & Sons,

ME- 212 FLUID MECHANICS

1. Introduction to Fluid Mechanics and Fluid Machines,Som.S.K&Biswas.G Tata McGraw-Hills Publishing Company Limited (2003)
2. Fluid Mechanics, Cengel&Cimbala, , Tata McGraw-Hills Publishing
3. Fluid Mechanics, White.F.M, Tata McGraw-Hill Publishing Company
4. Fluid Mechanics & Machinery Agarwal.S.K, Tata McGraw-Hill
5. Fluid Mechanics & Fluid Power Engineering, Dr.D.S.Kumar, S.K.Kataria&Sons(2008).
6. A Text Book of Fluid Mechanics & Hydraulic Machines, Bansal.Dr.R.K, , Laxmi Publications(P) Ltd., New Delhi.

ME213 : INSTRUMENTATION AND CONTROL ENGINEERING

1. Mechanical Measurements- Beckwith, Marangoni, Lienhard, Pearson Education
2. Measurement systems Application and Design – Doebelin, Tata McGraw
3. Book" System dynamics & control – EroniniUmez-Eronini, Thomson Press.

ME- 214 KINEMATICS OF MACHINES

1. The Theory of Machines, Thomas Beven, CBS publishers and distributers
2. Theory of Machines, Rattan.S.S,McGraw-Hills Ltd.
3. Kinematics and Dynamics of Machinery, R.L.Norton,Tata McGraw-Hill
4. Theory of Machines and Mechanisms, John.J.UickerJr, Gordon Pencock,JosephE.Shigley, Oxford University press.

ME- 215 PRINCIPLE OF MANUFACTURING SYSTEMS

1. Fundamentals of Metal Cutting & Machine Tools by B.L.Juneja, G.S.Sekhon&Nitin Seth, New Age International Publications.
2. Manufacturing Technology: Metal Cutting & Machine Tools by P.N.Rao, Tata McGraw Hill Publications.
3. Introduction to Machining Science by G.K.Lal, New Age International
4. Workshop Technology Vol.2, by B.S.Raghuwanshi, DhanpatRai& Sons,
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ME- 216 PRODUCTION AND OPERATION MANAGEMENT -I

1. Operations Management, Jay Heizer, Barry Render; Pearson learning
2. Operations management for competitive advantage; Chase, Jacob, and Aquilano; TMH

Reference Book

1. Modern Production/Operations Management, Buffa and Serin, John Weily India.

2. Operation Management, Krajewski and Ritzwan, Pearson Education.
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ME-301 I.C. ENGINES

1. I.C Engines and Air Pollution by E.F.Obert, Intext Educational Publishers.
2. I.C Engines by Ferguson, John Wiley & Sons.
3. Fundamentals of I.C Engines by J.B Heywood, Tata McGraw-Hill Companies.
4. I.C Engines by Mathur& Sharma, DhanpatRai and Sons.
5. The Internal Combustion Engine - Theory and Practice Vols. I & II by C.F.Taylor, MIT Press.

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1. Introduction to Fluid Mechanics and Fluid Machines,Som.S.K&Biswas.G
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5. R.Pencock,Joseph, E.Shigley, Oxford University press.
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2. "Strength of Materials",SriNath L.S. et.al., McMillan, New Delhi,2001
3. "Strength of Materials",Sadhu Singh, Khanna Publishers, N Delhi, 2000.
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5. "Mechanics of Materials", Hibbler R.C Prentice Hall, New Delhi, 1994.
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ME-305 MANUFACTURING TECHNOLOGY-I

1. Manufacturing Technology by P.N.Rao, Tata McGraw Hill Publications
2. Manufacturing Processes and Automation by R.S.Parmar, Khanna
3. Workshop Technology Vol.1, by B.S.Raghuwanshi, DhanpatRai
4. Processes & Materials of Manufacture by R.A.Lindberg, Prentice Hall
5. Principle of Metal Casting by Heine & Rosenthal, Tata McGraw Hills
6. Welding Processes and Technology by R.S.Parmar, Khanna Publications
7. Welding & Welding Technology by Richard L Little, Tata McGraw Hill
8. Metal Forming Processes by G.R.Nagpal, Khanna Publications.

ME- 311 TRANSPORT PHENOMENON

1. Fundamentals of Engineering Heat and Mass Transfer by R.C.Sachdeva, New Age International Publishers.
2. Fundamentals of Heat and Mass Transfer by P Frank. Incropera and David P. DeWitt, John Wiley and Sons.
3. Heat Transfer by A. Bejan, John Wiley and Sons.
4. Heat Transfer by M.N. Ozisik, McGraw Hill Book Co.
5. Heat Transfer A Practical Approach by A.CenegelYunus, T McGraw Hill.
6. Engineering Heat and Mass Transfer by Mahesh M. Rathore, Laxmi Pub.
7. Heat and Mass Transfer by J.P Holman, Tata McGraw Hill.
8. Fundamentals of Momentum, Heat and Mass Transfer by James R.Welty; John Wiley & Sons (Pvt). Ltd.

ME -312 REFRIGERATION AND AIR CONDITIONING

1. Refrigeration and Air Conditioning by C. P. Arora, Tata McGraw Hill
2. Refrigeration and Air Conditioning by A. R .Trott and T. C. Welch, Butterworth-Heinemann
3. Refrigeration and Air ConditioningTechnology by Whitman, Jhonson and Tomczyk, Thomson Delmer Learning
4. Refrigeration and Air Conditioning by Abdul Ameen, Prentice Hall of India
5. Basic Refrigeration and Air Conditioning by P. N. Ananthanarayan, Tata McGraw Hill
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2. Fundamental of Machine Component Design, " Juvinall, R. C., and Marshek, K. M., John Wiley and Sons, 2000.
3. Fundamentals of Machine Elements Hamrock, B. J., Jacobson, B. Schmidt, S. R.,. McGraw Hill, 1999.
4. An Integrated Approach, Norton, R. L., Machine Design: Pearson Education, Indian Reprint-2001.
5. Machine Design Bhandari TMH
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ME- 314 POWER PLANT ENGINEERING

1. Power Plant Engineering by M.M. Elwakil, Tata McGraw Hill.
2. Power Plant Engineering by P.K Nag, Tata McGraw Hill.
3. Steam and Gas turbines by A Kostyuk and V Frolov, MIR Publishers.

Reference Books

1. Modern Power Plant Engineering by J Wiesman and R Eckart, P H I
2. Planning Fundamentals of thermal Power Plants by F.S Aschner, John Wiley.
3. Applied Thermodynamics by T.D Eastop and McConkey, Longman Scientific and Technical.
4. CEGB volumes on power plant.
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1. Introduction to work Study; Oxford and IBH publishing Co. Pvt. Ltd, N Delhi
2. Industrial Engineering and Management; B. Kumar, Khanna Publication.

Reference Book

1. Operation Management, Krajewski and Ritzwan, Pearson Education.
2. Work study and ergonomics, S.K. Sharma & Savita Sharma, Katson, Delhi.
3. Industrial Engineering & Management, Ravi Shanker, Galgotia pub Delhi

ME-401 MECHATRONICS

1. Introduction to Mechatronics and Measurement systems,(special Indian edition), Alciatore ,David Tata-McGraw Hill India Ltd.
2. Mechatronics: Principles, Concepts and applications,Mahalik.N, Tata-McGraw Hill India Ltd.
3. Mechatronics: Principles and applications, Onwubolu,Elsevier India Pvt
4. Mechatronics by Hindustan Machine Tools Ltd.,McGraw- Hill Ltd.
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ME 402 CAD/CAM

1. Principles of Computer Aided Design and Manufacturing; Farid Amirouche Pearson.
2. CAD/CAM Theory and Practice by Ibrahim Zeid.
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1. CAD/CAM Computer Aided Design and Manufacturing by Mikell P. Groover and Emory W. Zimmer, Jr.
2. Computer Integrated Design and Manufacturing by David D. Bedworth, Mark R. Henderson, Philip M. Wolfe.

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1. Fundamentals of Machining & Machine Tools by Geoffrey Boothroyd& Winston A. Knight, Marcel & Dekker Publications.
2. Fundamentals of Metal Cutting & Machine Tools by B.L.Juneja, G.S.Sekhon&Nitin Seth, New Age International Publications
3. Manufacturing Technology by P.N.Rao, Tata McGraw Hill Publications
4. Production Engineering Sciences by P.C. Pandey& C.K. Singh, Standard pub.
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3. “Solar Energy thermal process” JA Duffie and W.A. Beckman, John willey & sons, New York.

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1. Nuclear Reactor Engineering, S. Glasstone and A. Seronske, Van Nostrand – Reinhold, 1967
2. Nuclear Chemical Engineering, M. Bendict and T.A. Pigtor, McGraw Hill, 1981.
3. Basic Principles of Nuclear Science and Reactors, L. C. Merrite Wiley Hill, 1981.
4. Introduction to Nuclear Reactor Physics, S. E. Liverhandt

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2. P.Hill and C. Peterson, "Mechanics and Thermodynamics of Propulsion" Addison Wesley Publishing Company, 1992.
3. N.J. Zucrow, " Aircraft and Missile Propulsion, Vol. I & II ", John Wiley 1975.
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1. Computational Fluid Dynamics”,John Anderson,” McGraw- Hill Ltd.
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1. Fuel Cell Systems,I.J.Blomen, Plenum Punlishing Corporation, NY 1994
2. Fuel Cells A.Mcdougall, , John Willey. N.W, 1976 or latest.
3. Hand Book of Fuel Cell Fundamentals, Technology and applications W.Vielstich, A.Lamn and H.A.Gasteiger, Editors, (4 vol), John Willey, NY,2003.
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4. Fundamentals of Vibrations; Roger A A, Amerind Publisher Company Pvt
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1. Engineering Tribology by GwidonStachowiak, 2005 Edition, Elsevier
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1. Experimental Stress Analysis, Adams Dove, Prentice Hall Inc 1965.
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1. Prashant Kumar; 'Elements of Fracture Mechanics"; Tata McGraw- Hill Publishing Company Limited.
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2. A S Hall Jr,"Kinematic & Linkage Design", Prentice Hall India.
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1. Engineering Metrology", R.K. Jain, Khanna Publishers, Delhi
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3. Metrology for Engineers",.F.W. Galyer& C.R. Shotbolt, "ELBS edition
4. Fundamentals of Mechanical Inspection", R. Jenkins, McGraw Hill
5. "Fundamentals of Dimensional Metrology", C. Dotson, R. Harlow, R. Thompson, Thomson Asia Pte Ltd., Singapore
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1. Advanced machining process, Dr.V.K.Jain
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1. Hydraulic and Pneumatic Controls, R Srinivasan, Vijay Nicole imprints Pvt. Ltd., Chennai
2. Introduction to Hydraulic and Pneumatic S. Ilango and V. Soundararajan, Prentice-Hall of India, Delhi
3. Oil Hydraulic Systems : Principles and Maintenance", S. R. Majumdar, " Tata McGraw-Hill, Delhi
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7. Basic Fluid Power ", Dudleyt, A. Pease and John J. Pippenger, " Prentice Hall
8. Fluid Power with Applications ", Anthony Esposite, Prentice Hall

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1. Automation, Production system and computer integrated manufacturing by GROOVER,
2. Computer Aided Design andComputer Aided Manufacturing by GROOVER-Zimmer,
3. Computer Aided Manufacturing by P.N.Rao,
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3. Total Quality Management by Besterfield, Pearson Education.
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3. Supply Chain Management: Text and Cases by JannatSah, Pearson Education.

484P FINANCIAL MANAGEMENT

1. Financial Management by Khan and Jain, TMH
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2. Encyclopedia of PackgingTechnolgy, Brody, John Wiley

3. Plastics Packaging, Piringer& Bauer, Wiley Interscience
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3. V. Kaajakari, “Pratical MEMS,” Small Gear Publishing, 2009
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7. Maluf, N.An Introduction To Microelectromechanical Systems Engineering Artech House 2000
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