Automobile Engineering

AE--303 BASIC AUTOMOBILE SYSTEMS

Text Books:

1. Automotive Technology by Sethi, Tmh, New Delhi
2. Automobile by K.K. Ramalingam, Scitech Publication, Chennai
3. Automotive Chassis & Body by P.L. Kohli, Tmh, New Delhi

Reference Books:

1. Motor Vehicles by Newton Steeds and Garrot, Butterworths, London.
2. Mechanism of the Car by Judge A.W, Chapman and Halls Ltd., London.
3. Automotive Chassis and Body by Crouse W.H, Mcgraw –Hill, New York.
4. Automobile Engg. by K.K. Jain, R.B. Asthana, Tmh.
5. Automobile Engg (Vol-1) by Dr. Kripal Singh, Standard Publisher Distributors

AE- 201- Thermodynamics

Text Books:

1. Thermodynamics – Jones and Dugan, PHI, New Delhi.
2. Fundamentals of Thermodynamics – E. Radhakrishnan, Phi, New Delhi.
3. Thermal Science & , D.S.Kumar, SK Kataria & Sons
4. Thermodynamics - R, Yadav, CPH Allahabad
5. Thermodynamics – C P Arora, Tata Mcgraw Hill
6. Thermodynamics – P K Nag, Tata Mcgraw Hill

Reference Books:

1. Theory Problems of Thermodynamics – Y. V.C. Rao, Wiley Eastern Ltd., NDelhi.
2. Engineering Thermodynamics Oxford Univ. press Chatopadhyay
3. Thermodynamics- Cengel and Boles Tata Mcgraw Hill
4. Engineering Thermodynamics Onkar Singh, New Age International

AE-202 NUMERICAL 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

AE--203 ME-205 ENGINEERING MECHANICS

1. Mechanics for Engineers: Statics, Beer and Johnson,Tata M hill Pub Limited
2. Engineeering Mechanics: Statics & Dynamics; Irwing H.Shames P Hall of India.
3. Engineering Mechanics", Timoshenko and Young; McGrawHill
4. Engineering Mechanics by S.S.Bhavikatti ,"New age International publications"
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6. Engineering Mechanics; - Basudeb Bhattacharyya; Oxford University Press
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AE-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

AE-205 METALLURGY

1. Callister's Material Science and, Wiley India Edition.

2. Mechanical Metallurgy by Deiter, Mcgraw Hill
3. Materials Science and: A First Course, 5th Edition,, Raghavan,Phi Pri Ltd,
4. Materials: Properties and Selection, 8th Ed., Budinski & Budinski.
5. Elements of Material Science & , Van Vlack, Pearson Education.

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TEXT BOOKS:

1. Manufacturing Process by Raghuvanshi.
2. Manufacturing Technology by P.N.Rao (TMH Publications)

REFERENCE BOOK:

1. Workshop Technology by Hazra-Chowdhary
2. Production Engineering by R.K.Jain
3. Workshop Technology by Chapman

AE- 208 Automobile Engineering Drawing

1. Machine Drawing by Lakshminarayan; Jain Brothers, New Delhi
2. Engineering Drawing by RB Gupta; Satya Parkas an, New Delhi
3. Machine Drawing by PS Gill; BD Kataria and Sons, Ludhiana

AE--211 HEAT TRANSFER AND AUTOMOTIVE AIRCONDITIONING:

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2. Elements of Heat & Mass Transfer by Vijay Gupta, New Age International Pub.
3. Fundamentals of Engineering Heat and Mass Transfer by R.C.Sachdeva, New Age International Publishers.
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5. Heat Transfer by A. Bejan, John Wiley and Sons.
6. Heat Transfer by M.N. Ozisik, Mc Graw Hill Book Co.
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2. Production Technology B S Raghuwanshi Vol. 1,2
3. Production Technology by P N Rao 1. Rao P.N., “Manufacturing Technology”,Vol.1, Tata Mcgraw Hill, 2003.
4. Sharma P.C., “A Text Book of Production Engineering”, Vol.1, S. Chand Publication,New Delhi, 2001.
5. Fundamentals of Machining & Machine Tools by Geoffrey Boothroyd & Winston A. Knight, Marcel & Dekker Publications.
6. Fundamentals of Metal Cutting & Machine Tools by B.L.Juneja, G.S.Sekhon & Nitin Seth, New Age International Publications
7. Manufacturing Technology by P.N.Rao, Tata McGraw Hill Publications

8. Production Engineering Sciences by P.C. Pandey & C.K. Singh, Standard Publications.

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1. Jain P.L., “Principles of Foundry Technology”, Tata Mcgraw Hill, New Delhi, 1998
2. Ramana Rao T.V., “Metal Casting Principles & Practices”, New Age Int, New Delhi,2003.
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10. Manufacturing Science by Gosh and Malik
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AE--213 MECHANICS OF SOLIDS

Text Books:

1. R Subramanian “Strength of Materials”, Oxford university Press
2. Ryder G.H., “Strength of Materials”, Macmillan, Delhi, 2003.
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Reference Books:

1. Osamu Hirao and Richard K. Pefley, Present and Future Automotive Fuels, John Wiley and Sons, 1988.
2. Keith Owen and Trevor Eoley, Automotive Fuels Handbook, SAE- Pub, 1990.
3. Richard L.Bechtold, Automotive Fuels Guide Book, SAE- Publications, 1997.
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AE- 215 INTERNAL COMBUSTION ENGINES

1. I.C Engines and Air Pollution by Obert.
2. I.C Engines by Funguson.
3. Fundamentals of I.C Engines by J.B Heywood.
4. I.C Engines by Mathew & Sharma

AE-216 THEORY OF MACHINES

References:

1. Theory of Machines and Mechanisms by J.J.Shigley, Pennock J.J.Uicker, Oxford Univ. Press
2. Theory of Machines by S.S.Rattan, TMH.1993
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5. Mechanism and Machine Theory by J.S.Rao and R.V.Dukkipati, New Age International.1992

AE- 301 : MEASUREMENT AND INSTRUMENTATION

Text books:

1. Mechanical measurements by t. G. Beckwith, n. L. Buck and r. D. Marangoni, 3rd ed, narosa Publishing house.1993
2. Metrology by R. K. Jain khanna pub. 2002
3. Fundamentals of dimensional metrology by c. Dotson, r. Harlow and r. Thomson. Pub. 2003
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5. Measurement system- application and design by e. O. Doeblin, 4th ed, tmh, 1990
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AE--302: AUTOMOTIVE ELECTRICAL & ELECTRONICS

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1. Ramesh, Goankar.S., " Microprocessor Architecture Programming and Applications ",
2. Automotive Electrical Equipment by Young A.P. & Griffiths. L., Elbs & New Press – 1999.
3. Understanding Automotive Electronics by William B. Riddens, 5th Edition – Butter Worth Heinemann Woburn, 1998.
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AE- 304 Fluid Mechanics and Hydraulic Machines

Text Books:

1. Fluid Mechanics and Hydraulics Machines (5^{th} Edition) by Bansal, R.K., Laxmi Publications (P) Ltd., New Delhi, 1995.
2. Fluid Mechanics by Streeter, V.L. and Wylie, E.B, Mcgraw-Hill, 1983
3. Hydraulic Machines- Theory and Design by Vasandani, V.P., Khanna Pub, 1992
4. Fluid Mechanics and Eluid Machinery by Oza, Berndtsson,, Oxford University PressISBN 9780195699630

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1. Fluid Mechanics & Machines, by D.S. Kumar, Kataria Pub.
2. Fluid Mechanics by White, F.M., Tata Mcgraw-Hill, 5^{th} Edition, New Delhi, 2003
3. Introduction to Fluid Mechanics and Fluid Machines by Som, S.K. and Biswas, G., Tata Mcgraw Hill, 2^{nd} Edition, 2004.
4. Fluid Mechanics Cengel, Younus Tata Mc Graw Hill
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AE--305 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

AE--311 DESIGN OF MACHINE ELEMENTS

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2. Juvinall, R. C., and Marshek, K. M., Fundamental of Machine Component Design, John Wiley and Sons, 2000.
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1. S.M. Yahya, " Fundamentals of Compressible Flow ", New Age International (P)Limited, New Delhi, 1996.
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4. N.J. Zucrow, " Principles of Jet Propulsion and Gas Turbines ", John Wiley, New York, 1970.

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AE-313 PRODUCTION & OPERATIONS MANAGEMENT-1

1. Operations Management, Jay Heizer, Barry Render; Pearson learning
2. Operations management for competitive advantage; Chase, Jacob, and Aquilano; TMH
3. Modern Production/Operations Management, Buffa and Serin, John Weily India.

AE--314 VEHICLE MAINTENANCE, TRIBOLOGY & LUBRICATION

Text Book

1. John Doke “Fleet Management”, McGraw-Hill Co. 1984
2. Fraze,prving “ Automotive Maintenance & Troubleshooting”. Mir Publishers, Moscow1976.

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1. Crouse W and Anglin D, Automotive Mechanics, TMHill 10th edition 2004
2. Nakra C P, Basic Automobile, Dhanpat Rai Publication Co. Ltd 7th Edition2005
3. Josepe Heitner Automotive Mechanics – Principle and Practice, East West Press 2nd edition 1999.
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Text Books:

1. Maleeve Hartman and O.P. Grover, “Machine Design”, CBS Publication
2. V.B Bhandari, “Machine Design”, Tata Mcgraw Hill.
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1. Mahadevan, “Design Data Book”, CBS Publication & Publishers
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1. Industrial Engineering and Management; B. Kumar, Khanna Publication.
2. Introduction to work Study; Oxford and IBH publishing Co. Pvt. Ltd, New Delhi

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1. Bruce R. Munson, Donald F. Young, Theodore H. Okishi, Fundamentals of Fluid Mechanics, 4th Edition, John Wiley andSons Inc, 2002
2. John F. Doughlas, Janusz M. Gasiorek, John A. Swaffield, , Fluid Mechanics, 5th Edition, Prentice Hall, 2006.
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AE-403f Computer Aided Vehicle Design and Safety

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1. Automobile Mechanics by Giri. N.K., Khanna Publishers – New Delhi – 2002
2. High Speed Combustion Engine by Heldt. P.M., Oxford & Ibh Publishing Co., Calcutta 1989.
3. Vehicle Body by J. Powloski, Business Books Ltd, London – 1989

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1. Ic Engines by Lichty, Kogakusha Co., Ltd. Tokyo, 1991.
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2. Operations Research: An introduction by H A Taha, Pearson Education
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Reference Books:

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2. Heat Exchanger Design, Kenn D. Process Heat Transfer,
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