

Mechanical engineering syllabus

Mechanical engineering examinations

Group A - Compulsory examinations (six required, A1-A5 and one of A6 & a7)

16-Mec-A1 Applied Thermodynamics and Heat Transfer

Thermodynamics: Review of the fundamental laws of thermodynamics, introductory psychrometry and analysis of the ideal gas compressor cycle, Rankine cycle, Otto cycle, Diesel cycle, Brayton cycle and the vapour compression refrigeration cycle.

Heat Transfer: Application of the principles of steady and transient conduction heat transfer, natural and forced convection heat transfer and radiation heat transfer. Thermal analysis of heat exchangers.

Textbooks (most recent edition is recommended):

- Moran, M.J., H.N. Shapiro, B.R. Munson and D.P. DeWitt, Introduction to Thermal Systems Engineering: Thermodynamics, Fluid Mechanics, and Heat Transfer. John Wiley and Sons.

16-Mec-A2 Kinematics and Dynamics of Machines

Kinematic and Dynamic Analysis: Graphical and analytical methods for kinematic analysis of planar and spatial mechanisms and elementary body motion in space, static and dynamic force analyses of mechanisms, gyroscopic forces, dynamics of rotating machinery, cam and gear mechanisms and specifications.

Vibration Analysis: Free and forced vibration of undamped and damped lumped single and multi degrees of freedom systems with, analytical and numerical techniques of solution, viscous damping, vibrational isolation, vibration measurement and control.

Textbooks (most recent edition is recommended):

- Inman, D.J., Engineering Vibrations, latest edition, Prentice-Hall.
- Waldron, K.J., and Kinzel, G.L., Kinematics, Dynamics and Design of Machinery. John Wiley & Sons.

16-Mec-A3 System Analysis and Control

Open-loop and feedback control. Laws governing mechanical, electrical, fluid, and thermal control components. Mathematical models of mechanical, hydraulic, pneumatic, electrical and control devices. Block diagrams, transfer functions, response of servomechanisms to typical input signals (step function, impulse, harmonic), frequency response, Bode diagram, stability analysis, and stability criteria.

Improvement of system response by introduction of simple elements in the control circuit. Regulation of physical process: proportional, integral, and derivative control. Theory of linear controller design.

Textbooks (most recent edition is recommended):

- Bissell, C.C., Control Engineering, latest edition, Taylor & Francis.
- Franklin, Feedback Control of Dynamic Systems.

16-Mec-A4 Design and Manufacture of Machine Elements

Theory and methodology related to conceptual design; review of the methods used in stress analysis; simple design factor approach; variable loads; stress concentrations; bolts and bolted joints; welded joints; springs; shaft and bearing design; clutches, brakes, and braking systems.

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RJ Alexander



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Pyrometers Ezer Griffiths,1926 Banking & SSC November 2020 eBook Jagranjosh,2020-11-04 General knowledge has immense importance in various competitive exams like UPSC State Services SSC Banking Railway NDA MBA entrance exams and various service exams in private as well as public sectors This edition contains detailed discussion and analysis of the current GK topics and MCQs with for further practice about the latest and most important happenings in political economic social sports and entertainment fields all over the world All the topics are presented with facts and a brief description so that the reader gets full knowledge and understanding in all the key areas of exams Some maps tables etc are also included for further clarity *British Books* ,1918 **The Sanitary Record and Journal of Municipal Engineering** ,1912 **The Builder** ,1893 *The Publishers' Circular and Booksellers' Record* ,1918

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Table of Contents Net Exam Syllabus For Mechanical Engineering

1. Understanding the eBook Net Exam Syllabus For Mechanical Engineering
 - The Rise of Digital Reading Net Exam Syllabus For Mechanical Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Net Exam Syllabus For Mechanical Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Net Exam Syllabus For Mechanical Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Net Exam Syllabus For Mechanical Engineering
 - Personalized Recommendations
 - Net Exam Syllabus For Mechanical Engineering User Reviews and Ratings
 - Net Exam Syllabus For Mechanical Engineering and Bestseller Lists

5. Accessing Net Exam Syllabus For Mechanical Engineering Free and Paid eBooks
 - Net Exam Syllabus For Mechanical Engineering Public Domain eBooks
 - Net Exam Syllabus For Mechanical Engineering eBook Subscription Services
 - Net Exam Syllabus For Mechanical Engineering Budget-Friendly Options
6. Navigating Net Exam Syllabus For Mechanical Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Net Exam Syllabus For Mechanical Engineering Compatibility with Devices
 - Net Exam Syllabus For Mechanical Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Net Exam Syllabus For Mechanical Engineering
 - Highlighting and Note-Taking Net Exam Syllabus For Mechanical Engineering
 - Interactive Elements Net Exam Syllabus For Mechanical Engineering
8. Staying Engaged with Net Exam Syllabus For Mechanical Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Net Exam Syllabus For Mechanical Engineering
9. Balancing eBooks and Physical Books Net Exam Syllabus For Mechanical Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Net Exam Syllabus For Mechanical Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Net Exam Syllabus For Mechanical Engineering
 - Setting Reading Goals Net Exam Syllabus For Mechanical Engineering
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Net Exam Syllabus For Mechanical Engineering
 - Fact-Checking eBook Content of Net Exam Syllabus For Mechanical Engineering
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web 7 stress in crane hook the crane hook is a curved bar subjected to direct stress bending stress 8 resultant stress at inner surface of crane hook 2 mm n mm 2 n mm 9 resultant stress at outer surface of crane hook the resultant stress at inner surface is additional of

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web stress on crane hook depends upon various geometric variables as well as material properties in this analysis the material properties of hook kept constant throughout the analysis and stress is to be reduced by varying different geometric parameters

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web analysis of these hooks to determine the areas with high stress i.e failure points and those with low stresses these are potential points for material removal weight reduction and reduced costs

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