

Документ подписан простой электронной подписью
 Информация о владельце:
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Discipline abstract

Name of disciplines	Сопротивление материалов / Strength of Materials
Summary	Basic concepts of "Resistance of materials", section method and loading classification, axial tension or compression, torsion, geometric properties of cross sections, straight (simple) bending, oblique bending, bending with tension (compression), eccentric tension (compression), theory of strength and destruction, torsion with bending of a round shaft, stability of compressed rods, strength under cyclic loads, fundamentals of the theory of stress and strain.
The results of mastering the discipline	Be able to analyze the progress of the implementation of the requirements of the working project when performing technological processes, including the adjustment of design data when performing work on diagnostics, technical maintenance, repair and operation of process equipment.
labor input, cu	5
Reporting Forms sti	Exam - 3rd semester.
The list of basic and additional literature necessary for mastering the discipline	
Main literature	1. Agapov, V.P. Strength of materials: Textbook / Agapov V.P. - M.: Moscow State University of Civil Engineering, EBS DIA, 2014 - 336 p. 2. Timofeev, S.I. Resistance of materials: a short course / S.I. Timofeev. – Ed. 2nd, revised. and additional - Rostov-on-Don: Phoenix, 2014. - 334 p.
additional literature	1. Strength of materials: a guide to problem solving / I.N. Mirolubov, F.Z. Almametov, N.A. Kuritsyn [i dr.]. – Ed. 8th, sr. - St. Petersburg. [and others]: Lan, 2009. - 508 p. 2. Mikhailov, A.M. Strength of materials: textbook / A.M. Mikhailov. – M.: Academy, 2009. – 448 p. 3. Strength of materials: textbook / G.D. Mezhetsky, G.G. Zagrebin, N.N. Reshetnik, A.A. Slepov. – M.: Dashkov i K`, 2008. – 416 p. 4. Kopnov, V. A. Strength of materials: a guide for solving problems and performing laboratory and computational and graphic works: textbook. allowance / V. A. Kopnov, S. N. Krivoshapko. - 2nd ed., stereotype. – M.: Higher School, 2005. - 352 p.