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Информация о владельце:
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Annotation to the work program of the discipline

Name of disciplines	Гидромашины и компрессоры в нефтегазовом деле / Hydraulic Machinery and Compressors in Oil-and-Gas Engineering
Summary	The role of pumps and compressors in the oil and gas industry. General classification of pumps and compressors. Vane pumps: classification, principle of operation, device. Piston pumps: classification, operating principle, device. Rotary pumps. Hydraulic downhole motors. Turbodrills: purpose and principle of operation. Turbine performance. Screw downhole motors: classification, principle of operation, types and their design features. Turboprop engines. Piston compressors: classification, principle of operation, types and schemes. Rotary and centrifugal compressors. Compressor units: purpose and composition. Compressor cooling system.
The results of mastering the discipline (module)	has the skills to manage production processes in the oil and gas industry using modern equipment and materials.
Labor intensity, cu.	4
Reporting Forms (including by semesters)	Grading test, 4 semestr
Educational and methodical and information support of discipline	
Main literature	1. Hydraulics, hydraulic machines and hydraulic pneumatic drive: textbook for universities / [T. V. Artemyeva and others]; ed. S. P. Stesina. - 4th ed., stereotype. - M. : Academy, 2009. - 336 p. : ill. - (Higher professional education). - Bibliography: p. 332. 2. Oil and gas field scientific and technical encyclopedia / comp. A. I. Bulatov. - 2nd ed., add. and clarification – Krasnodar: Enlightenment-South, 2009. - 317 p.
Additional literature	1. Hydraulics, hydraulic machines and hydraulic pneumatic drive: textbook / ed. S. P. Stesina. - M.: Academy, 2005. - 336 p. 2. Sheipak A.A. Hydraulics and hydropneumatic drive: textbook. Part 1: Fundamentals of fluid and gas mechanics / A. A. Sheipak. - 4th ed., stereotype. - M. : MGIU, 2005. - 192 p. 3. Sheipak A.A. Hydraulics and hydropneumatic drive: Textbook. Part 2: Fundamentals of fluid and gas mechanics / A. A. Sheipak. - 5th ed., revised. and additional - M. : MGIU, 2006. - 266 p. 4. Ivanovsky V.N., Darishchev V.I., Nikolaev N.M. etc. Equipment for oil and gas production: At 2 hours - M. : Publishing house "Oil and Gas" Russian State University of Oil and Gas. I. M. Gubkina, 2003. 5. Kasyanov V.M. Hydraulic machines and compressors: A textbook for universities. - 2nd ed. and additional. - M. : Nedra, 1981.- 295 p.