

Документ подписан простой электронной подписью

Информация о владельце:

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Annotation to the work program of the discipline

Named discipline	Гидравлика и нефтегазовая гидромеханика / Hydraulics and Petroleum Fluid Mechanics
Summary	Introductory information. Basic physical properties of liquids and gases. General laws and equations of statics and dynamics of liquids and gases. Forces acting in liquids. Absolute and relative rest (balance) of liquid media. Model of an ideal (nonviscous) fluid. Similarity of hydromechanical processes. General energy equation in differential form. Basics of calculating pipeline systems. Fluid outflow through holes and nozzles. The role of hydraulics in the oil and gas business.
The results of mastering the discipline	determines the need for fishing material necessary for the preparation of working projects; participates in the collection and processing of primary materials on the instructions of the management of the design service; works in contact with the supervisor;
labor input, cu	6
Forms reporting (including by semesters)	Test (3 term) Grading test (4 term)
List of basic and additional literature required to master the discipline	
Main literature	Ovsyannikov M.K., Orlova E.G., Emelyanov P.S. Fundamentals of hydromechanics. - M.: RConsult, 2011. - 160 p.
Additional literature	1. Altshul A. D., Zhivotovsky L. S., Ivanov L. P. Hydraulics and aerodynamics. - M.: Stroyizdat, 2006. - 410 p. 2. Yemtsev B. T. Technical hydromechanics. - M. : Mashinostroenie, 2007. - 460 p. 3. Konstantinov N. M., Petrov N. A., Vysotsky L. I. Hydraulics, hydrology, hydrometry. - M.: Higher school, 2007. - 304 p. 4. Altshul A. D., Kalitsun V. I. Examples of calculations in hydraulics. - M.: Stroyizdat, 2006. - 256 p. 5. Konstantinov M. P., Petrov N. A., Aleksandrov V. A. Examples of hydraulic calculations. - M. : Transport, 2006. - 440 p.