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# Annotation to the work program of the discipline

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| Name disciplines | **Основы нефтегазового дела / Introduction to Oil-and-Gas Engineering** |
| Summary | Oil and gas in the development of human society. The role of oil and gas in the fuel and energy complex. Physical properties of oil and gas. Drilling of oil and gas wells. Methods for drilling oil and gas wells. Drilling rigs, equipment, tools. Well flushing. The concept of well design. Cementing of casing strings. Development of oil and gas fields. Methods for operating oil and gas wells. Methods for improving well productivity. Capital repairs of wells. Field collection and preparation of oil and gas. oil transport, oil products and gas. Oil and gas processing. |
| The results of mastering the discipline (module) | uses the principles of information communication technologies and basic requirements information security;<br><br>solves standard tasks of professional activity on the basis of information and bibliographic culture using modern technologies and information security requirements;<br><br>has the skills to solve standard tasks of professional activity based on modern information technologies and taking into account the requirements of information security. |
| Labor intensity,cu | 3 |
| Reporting Forms (including by semesters) | Exam, 1 semester |
| **List of basic and additional literature necessary for mastering the discipline** | |
| Main literature | 1. Tagirov KM Exploitation of oil and gas wells: textbook for students. institutions of higher prof. education / K. M. Tagirov. - M.: Publishing Center "Academy". - 2012. - 336 p.<br>2. Oil and gas fieldscientific and technical encyclopedia / comp. A. I. Bulatov. - 2nd ed., add. and clarification – Krasnodar: Enlightenment-South, 2009. - 317 p. |
| Additionalliterature | 1. Kudinov V.I. Fundamentals of the oil and gas industry. – Moscow-Izhevsk: Institute for Computer Research; Udmurt State University. 2004, 720 p.<br>2. Mishchenko, I. T. Downhole oil production: textbook for universities / I. T. Mishchenko. - M.: Federal State Unitary Enterprise Publishing House "Oil and Gas"; Russian State University of Oil and Gas. I. M. Gubkina, 2003. - 816 p.<br>3. Oil and gas construction: Textbook./Under the general editorship. prof. I.I. Mazur and prof. V.D. Shapiro - M.: OMEGA-L, 2005.<br>4. Korshak A.A., Shammazov A.M. Fundamentals of oil and gas business. Textbook for universities: - Ufa: Design Polygraph Service LLC, 2001. - 544 p.<br>5. Kalinin A.G. Drilling oil and gas wells: a textbook. - |

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| | M.: ed. Center "LitNefteGas" - 2008. - 848 p. |