

Документ подписан простой электронной подписью

Информация о владельце:

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Должность: И.о. декана факультета нефтегазовой инженерии

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Annotation to the work program of the discipline (module)

Современные методы увеличения нефтеотдачи / Modern methods of enhanced oil recovery	
Name disciplines	
Summary	Physico-chemical methods for the development of oil deposits. Displacement of oil from the reservoir by solvents, high pressure gas, carbon dioxide. Displacement of oil from reservoirs by aqueous solutions of surfactants. Polymer and micellar-polymer flooding. Thermal methods for the development of oil deposits. Displacement of oil from reservoirs by hot water and steam. Injection of heat carriers into the formation by the method of thermal fringes. Thermopolymer impact on high-viscosity oil deposits. Mechanism of oil recovery. Composition and properties of the polymer solution. Technology and mechanism for extracting oil from the subsoil using in-situ combustion. Innovative technologies as a tool to improve development efficiency Knows methods for analyzing information on technological processes and the operation of technical devices in the oil and gas industry.
results development disciplines (module)	Knows how to select methods for analyzing information on technological processes and the operation of technical devices in the oil and gas industry Has the skills to analyze information on technological processes and the operation of technical devices in the oil and gas industry
Labor intensity	C.U. 3
Forms of reporting	Grading test, 7 semestr
Educational, methodological and information support of the discipline	
Main literature	1. Methods for enhanced oil recovery. Planning and application strategies/Translation from English. - M.: Premium Engineering LLC, 2011. - 244 p. 2. Silin M. A., Magadova L. A., Tolstykh L. I., Davletshina L. F. Chemical reagents and technologies for enhanced oil recovery: Textbook. - M.: Publishing Center of the Russian State University of Oil and Gas named after I.M. Gubkin, 2015 - 145 p. 3. Mishchenko I.T. Hard-to-recover reserves and complications in the development and operation of hydrocarbon deposits: Textbook. M.: Russian State University of Oil and Gas. THEM. Gubkina, 2015 - 138 p.
Additional literature	1. Butler R. M. Horizontal wells for oil, gas and bitumen production. - M.-Izhevsk: Institute for Computer Research, Research Center "Regular and Chaotic Dynamics", 2010. - 536 p. 2. Injection of heat carriers into the reservoir to intensify oil production and increase oil recovery. Tutorial. - M. - Izhevsk: Research Center "Regular and Chaotic Dynamics", Institute for Computer Research, 2008. - 224 3. Silin M.A., Eliseev D.Yu., Kulikov A.N. Optimization of the use of technologies for restricting water inflows and enhanced oil recovery in deposits of hard-to-recover oil reserves in Western Siberia. Tutorial. - M. : Russian State University of Oil and Gas named after I.M. Gubkina, 2011. - 159 p. 4. Stepanova G.S. Gas and water-gas methods of influencing oil reservoirs. – M.: Gasoil press, 2006. – 200 p. 5. V. P. Zakharov, T. A. Ismagilov, A. G. Telin, and M. A. Silin, "Regulation of seepage flows by waterproofing technologies during development

	oil fields. Tutorial. - M.: Russian State University of Oil and Gas named after I.M. Gubkina, 2010. - 225 p. 6. Altunina L.K., Kuvshinov V.A. Increased oil recovery of reservoirs by surfactant compositions. - Novosibirsk: Science. Siberian Publishing Company RAS, 1995. - 198 p. 7. Kryanev D.Yu. Non-stationary flooding. Methods for criteria-based assessment of the selection of impact sites. – M.: VNIIneft, 2008. – 208 p. 8. Kudinov V.I. Intensification of viscous oil production from carbonate reservoirs / Kudinov V.I., Suchkov B.M. Intensification of viscous oil production from carbonate reservoirs. - Samara: Prince. Publishing House, 1996. - 440 p. 9. Suchkov B.M. Oil production from carbonate reservoirs. Moscow-Izhevsk: Research Center "Regular and Chaotic Dynamics", 2005. - 688 p. 10. Ivanov S.I. Intensification of oil and gas flow to wells: Proc. Allowance. - M.: "Nedra-Business Center", 2006 - 565 p. 11. Ibragimov L.Kh. Intensification of oil production. – M.: Nauka, 2000. 12. Nazarova L.N. Development of oil and gas fields with hard-to-recover reserves: Proc. allowance for universities. - M.: Russian State University of Oil and Gas named after I.I.M. Gubkina, 2011. - 156 p.
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