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Annotation to the work program of industrial practice

Name practices	преддипломная практика / Pre-graduation Internship
Brief content	The objectives of the industrial pre-diploma practice in the direction of preparation 21.03.01 "Oil and gas business" are: - consolidation of theoretical knowledge gained by students during classroom lessons; - acquisition professional competencies through direct participation in the activities of a production or research and production institute and department, as well as the introduction of social and personal competencies necessary for work in the professional field. The tasks of the industrial pre-diploma practice are: - consolidation of theoretical knowledge gained in the study of basic disciplines; - mastering the techniques, methods and ways of identifying, observing, measuring and controlling the parameters of production and technological processes; - preparation and execution of scientific, technical and service documentation; - obtaining skills for future professional activity; - direct participation in the work process of the enterprise (organization) with the performance of the duties of a specialist; - collection of material for the preparation and writing of the WRC.

results development disciplines (module)	uses the basic laws of the disciplines of the mechanical engineering module; uses the basic laws of the natural sciences, rules for constructing technical diagrams and drawings; owns the basic methods of geological exploration, interpretation of geophysical survey data, technical and economic analysis, skills in drafting working projects as part of a creative team; knows the fundamental features of modeling mathematical, physical and chemical processes, designed for specific technological processes; participates, with knowledge of the matter, in the work to improve production processes using experimental data and simulation results; owns the skills of business interaction with the service department and evaluate their recommendations, taking into account the experimental work of the technology department of the enterprise. 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; has the skills to promptly fulfill the requirements of the working project; determines the fundamental differences in approaches to the design of technical objects, systems and technological processes; analyzes the progress of implementation of the requirements of the working project when performing technological processes, by virtue of its competence, makes adjustments to the design data; evaluates the convergence of the results of calculations obtained by various methods; has computer skills, using new methods and software packages.
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	uses the basics of logistics, in relation to an oil and gas enterprise, when the main technological operations are performed under conditions of uncertainty; puts into practice the elements of production management; possesses the skills of personnel management in a small production unit; uses the possibilities of carrying out entrepreneurial activities at the entrusted object and its legislative regulation; finds the possibility of combining the fulfillment of basic duties with elements of entrepreneurship; owns the skills of fundamental assessment of the applied types of entrepreneurial activity at the enterprise. compares the technology of carrying out standard experiments on standard equipment in the laboratory and in production; processes the results of research activities using standard equipment, instruments and materials; owns the technique of experimentation using software packages. uses software packages for its intended purpose; uses a computer to solve simple engineering calculations; owns the methods of risk assessment and quality management of the execution of technological operations; is able to acquire new knowledge using modern educational and information technologies; orients in information flows, highlighting the main and necessary in them; is able to consciously perceive information, independently search, extract, systematize, analyze and select information necessary for solving problems, organize, transform, store and transmit it; is able to critically rethink the accumulated information, develop their own opinion, transform information into knowledge, apply information in solving issues using various methods of text processing; owns the methods of collecting, processing and interpreting the information received, using modern information technologies and applied hardware and software, methods of protecting, storing and presenting information.
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	uses the principles of information and communication technologies and the basic requirements of information security; solves standard tasks of professional activity on the basis of information and bibliographic culture using modern technologies and information security requirements; has the skills to solve standard tasks of professional activity based on modern information technologies and taking into account the requirements of information security. uses the main types and content of layouts of production documentation related to professional activities; demonstrates the ability to summarize information and enter layouts into forms in accordance with applicable standards; owns the skills of compiling reports, reviews, certificates, applications, etc., based on the real situation.
labor input, cu	6
Forms reporting (in including By semesters)	Graded (grading) 8 semester (OFO)
List of basic and additional literature necessary for mastering disciplines	
Main literature	1. Safin, S.G. Introduction to oil and gas business: textbook / S.G. Safin; Ministry of Education and Science of the Russian Federation, Northern (Arctic) Federal University named after M.V. Lomonosov. - 2nd ed., revision. and additional - Arkhangelsk: NArFU, 2015. - 159 p. : diagrams, tables, illustrations. - Bibliography. in book. - ISBN 978-5-261-01053-1; 2. Neskromnykh, V.V. Well drilling: textbook / V.V. indiscreet; Ministry of Education and Science of the Russian Federation, Siberian Federal University. - Krasnoyarsk: Siberian Federal University, 2014. - 400 p. : illustrations, tables, schemes. - Bibliography. in book. - ISBN 978-5-7638-3043-9

Additional literature	1. Basarygin, Yu. M. Technology of drilling oil and gas wells: textbook for universities / Yu. M. Basarygin, A. I. Bulatov, Yu. M. Proselkov. - M. : Nedra, 2001. - 679 p. 2. Basarygin, Yu. M. Drilling of oil and gas wells: textbook. allowance for universities / Yu. M. Basarygin, AI Bulatov, Yu. M. Proselkov. - M. : Nedra, 2002. - 632 p. 3. Bulatov, A. I. Drilling of horizontal wells : Ref. allowance / A. I. Bulatov, E. Yu. Proselkov, Yu. M. Proselkov. - Krasnodar: Soviet Kuban, 2008. - 424 p. 4. Volkov, A.S. Drill pipes and their connections: reference book. guide / A. S. Volkov, A. G. Kalinin, A. S. Bronzov. - M. : Gostoptekhzdat, 1962. - 128 p. - Bibliography. With. 127 5. Kalinin, A. G. Natural and artificial curvature wells: textbook. manual for universities / A. G. Kalinin, V. V. Kulchitsky. -
	Moscow: Research Center "Regular and Chaotic Dynamics"; Izhevsk: Institute of Computer Research, 2006. - 640 p. 6. Podgornov, V. M. Completion of wells: textbook / V. M. Podgornov; Russian State University of Oil and Gas. I. M. Gubkina, Part 2, Formation of the bottomhole zone of a well. - M. : Nedra, 2008. - 253 p. : ill. – Bibliography: p. 251-253 7. Podgornov, V. M. Operational and exploration drilling on oil and gas: textbook. allowance / V. M. Podgornov. - M. : Nedra, 1988. - 325 p. : ill. - Bibliography. With. 323. - ISBN 5-247-00182-6 8. Podgornov, V. M. Fishing tool: textbook. allowance / V. M. Podgornov, I.P. Pustovoitenko. - M. : Nedra, 1984. - 148 p. : ill. – Bibliography: p. 147 9. Podgornov, V. M. Workshop on completion of wells: textbook. manual for universities / V. M. Podgornov, I. A. Vedishchev. – M. : Nedra, 1985. – 256 p. : ill. – Bibliography: p. 253 10. Ryazanov, Ya. A. Encyclopedia of drilling fluids / Ya. A. Ryazanov. - Orenburg: Chronicle, 2005. - 664 p. 11. Tagirov, K. M. Drilling wells and opening oil and gas reservoirs on depression / K. M. Tagirov, V. I. Nifantov. – M. : Nedra, 2003. – 160 s. – Bibliography: p. 152-158.