

Документ подписан простой электронной подписью

Информация о владельце:

ФИО: Оботурова Наталья Павловна

Должность: Декан факультета пищевой инженерии и биотехнологий имени

академика А.П. Храмцова

Дата подписания: 01.07.2024 16:28:26

Уникальный программный ключ:

f3ead44c4559Summaryaf77de79fa58

Summary of the work program of the discipline

Name of the discipline (module)	Fundamentals of scientific research / Principles of research and development.
Summary	Systemic characteristics of science. The role of science in the development of biotechnology. The role of forecasting in science. Forecasting systems and methods . Scientific and scientific-pedagogical personnel, their certification, training. The role of scientists in the development of biotechnology. Research institutions. The main modern principles of the organization of science in Universities. UIRS and NIRS as the basis of scientific and technical creativity. Requirements for abilities, knowledge, skills and abilities necessary for scientific research. Classification of scientific research.
The results of mastering the discipline (module)	Understands the relationship between science and production, the role of science in the scientific and technical progress of the industry; the basics of searching for scientific information, its processing and use in solving specific tasks in production; Is able to correctly form research tasks; conduct literary and patent search; conduct experimental research; uses skills in a research laboratory and conducting mathematical calculations Has the ability to collect and analyze information from various sources, Russian and foreign patent databases, trademarks, utility models, industrial designs
Labor intensity, ie.	4
Reporting form	Test
The list of basic and additional literature necessary for the development of the discipline	
Basic literature	Leonova O.V. Fundamentals of scientific research [Electronic resource] : textbook / O.V. Leonova. — The electron. text data. — Moscow : Moscow State Academy of Water Transport, 2015. — 70 p. — 2227-8397. — Access mode: http://www.iprbookshop.ru/46493.html 2. Lantseva I.A. Fundamentals of scientific research [Electronic resource] : : textbook / I.A. Lantseva, V.I. Lazarev. — The electron. text data. — Blagoveshchensk: Far Eastern State Agrarian University, 2015. — 185 p. — 978-5-9642-0321-6. — Access mode: http://www.iprbookshop.ru/55906.html Li G.T. Fundamentals of scientific research (educational and methodological complex) [Electronic resource] : monograph / G.T. Li. — Electron. text data. — Moscow : Rusains, 2015. — 103 p. — 978-5-4365-0568-8. — Access mode: http://www.iprbookshop.ru/61633.html
Additional literature	1 Averchenkov, V. I. Methods of engineering creativity / V.I. Averchenkov ; Yu.A. Malakhov. - 3rd ed., ster. - Moscow : Flint, 2011. - 78 p. - ISBN 978-5-9765-1268-9 2 Genetic foundations of plant breeding Cellular engineering. - Minsk : Belarusian Science, 2012. - 489 p. - ISBN 978-985-08-1392-3 3 Genetic foundations of plant breeding. - Minsk : Belarusian Science, 2014. - 654 p. - ISBN 978-985-08-1791-4