

Документ подписан простой электронной подписью

Информация о владельце:

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## Summary of the work program of the discipline

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|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of the discipline                                                                             | <b>Modern methods of analysis in biotechnology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Summary                                                                                            | Comprehensive assessment of the quality and safety of food products; general principles of analysis; organoleptic and physico-chemical methods of research of raw materials and food products; methods for determining the chemical composition and quality indicators of raw materials, food products and technical products; devices for food research; modern express research methods.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| The results of mastering the discipline                                                            | Applies methods of technochemical and laboratory quality control of raw materials, semi-finished products and biotechnological products for the food industry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Labor intensity, ie.                                                                               | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reporting form                                                                                     | Credit with an assessment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>The list of basic and additional literature necessary for the development of the discipline</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Basic literature                                                                                   | 1. Melnikova E. I. , Rudnichenko E. S. , Bogdanova E. V. Modern methods of studying the properties of raw materials and animal products : Laboratory workshop: textbook Voronezh: Voronezh State University of Engineering Technologies, 2014, 95c. <a href="http://biblioclub.ru/index.php?page=book_red&amp;id=255911&amp;sr=1">http://biblioclub.ru/index.php?page=book_red&amp;id=255911&amp;sr=1</a> 2. Bazarnova Yu.G. Theoretical foundations of food research methods : a textbook / Bazarnova Yu.G. — St. Petersburg : ITMO University, Institute of Refrigeration and Biotechnology, 2014. — 134 p. — ISBN 2227-8397. — Text : electronic // Electronic Library system IPR BOOKS : [website]. — URL: <a href="http://www.iprbookshop.ru/68168.html">http://www.iprbookshop.ru/68168.html</a> 3. Suchkova E.P. Methods of milk and dairy products research [Electronic resource] : educational and methodological manual / E.P. Suchkova, M.S. Belozerova. — The electron. text data. — St. Petersburg : ITMO University, Institute of Refrigeration and Biotechnology, 2015. — 46 p. — 2227-8397. — Access mode: <a href="http://www.iprbookshop.ru/67282.html">http://www.iprbookshop.ru/67282.html</a> |
| Additional literature                                                                              | 1. Karpova G. V., Studyannikova M. A. General principles of functional nutrition and methods of researching the properties of raw food products: textbook : in 2 hours, Part 2, Orenburg: Orenburg State University, 2012, 214c. <a href="http://biblioclub.ru/index.php?page=book_red&amp;id=258839&amp;sr=1">http://biblioclub.ru/index.php?page=book_red&amp;id=258839&amp;sr=1</a> 2. Romanyuk T. I., Chusova A. E., Novikova I. V. Methods of research of raw materials and products of plant origin (theory and practice): textbook Voronezh: Voronezh State University of Engineering Technologies, 2014, 161 p. <a href="http://biblioclub.ru/index.php?page=book_red&amp;id=336061&amp;sr=1">http://biblioclub.ru/index.php?page=book_red&amp;id=336061&amp;sr=1</a> 3. Vytovtov, A.A. Theoretical and practical foundations of organoleptic analysis of food products : textbook. Handbook for universities / A. A. Vytovtov. -St. Petersburg : GIORD, 2010. - 228 p. : table ; 21 cm. - Vulture: Rec. UMO. - Bibliogr.: pp. 227-228. - 1000 copies. - ISBN 978-5-98879-113-3.                                                                                                                           |