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Информация о владельце:

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Abstract to the work program of the discipline

Name of the discipline	Процессы и аппараты биотехнологии / Processes and apparatus of biotechnology
Summary	General principles of analysis and calculation of biotechnology processes and devices, issues of applied hydraulics, hydrostatics, hydrodynamics, theoretical and practical aspects of hydromechanical, heat exchange, mass transfer processes, evaporation, drying, crystallization processes.
The results of mastering the discipline	Understands the principles of making technological calculations when designing new or upgrading existing production facilities and production sites for the production of biotechnological products for the food industry He is able to study methods of calculation and selection of technological equipment for the organization and conduct of experiments on the stages of introduction of new technological processes in the production of biotechnological products for the food industry He is capable of developing plans for the placement of equipment, technical equipment and organization of workplaces within the framework of the technology adopted in the organization for the production of biotechnological products for the food industry
Labor intensity, p.e.	8 p.e.
Reporting form	Credit with assessment Calculation and graphic work Exam
The list of basic and additional literature necessary for the development of the discipline	
Basic literature	1. Processes and devices (fundamentals of fluid mechanics) : practical textbook / A.N. Ostrikov, A.A. Smirnykh, I.S. Naumchenko, I.N. Bolgova, M.V. Kopylov ; Ministry of Education and Science of the Russian Federation; Voronezh State University of Engineering Technologies. – Voronezh : Voronezh State University of Engineering Technologies, 2018. – 233 p. : schematics, ill., table. – http://biblioclub.ru/. – Bibliogr. in the book – ISBN 978-5-00032-325-0 2. Evdokimov, I. A. (SevKavGTU). Fundamentals of technology and equipment of biotechnological industries : studies. the manual / I. A. Evdokimov, S. V. Vasilisin, M. I. Shramko ; FGBOU Sev.-Kav. gos. tech. Univ. – Stavropol : SevKavSTU Publishing House, 2012. – 251 p. : ill. – Bibliogr.: p. 249.
Additional literature	1. Zhukov V.I. Processes and devices of food production [Electronic resource] : textbook / V.I. Zhukov. — The electron.text data. Novosibirsk: Novosibirsk State Technical University, 2013. — 188 p. — 978-5-7782-2403-2. — Access mode: http://www.iprbookshop.ru/45150.html 2. Voblikova T.V. Processes and devices of food production [Electronic resource] : textbook / T.V. Voblikova, S.N. Shlykov, A.V. Permyakov. — The electron.text data. — Stavropol: Stavropol State Agrarian University, AGRUS, 2013. — 212 p. — 978-5- 9596-0958-0. — Access mode: http://www.iprbookshop.ru/47344.html