



ITMO UNIVERSITY

**Saint Petersburg National Research University of Information  
Technologies, Mechanics and Optics**  
The Ministry of Education and Science of the Russian Federation  
Federal state autonomous educational institution of higher professional education

## Research Summer Camp in Biotechnology

### *Study Workload*

Activity types	Study hours
Theory-oriented	35
Practice-oriented	61
Unsupervised work	48
Final assessment	4
<b>TOTAL (hours/ ECTS)</b>	<b>144 / 4</b>

### *Study Program*

No.	Module	Total hours	Theory-oriented	Practice-oriented	Unsupervised work	Final assessment form
1.	Introduction	2	2	-	-	-
2.	Modern microbiology	30	8	10	12	Project report
3.	Biotechnology of fermented products	20	4	10	6	Project report
4.	Secondary plant metabolites as functional food ingredients: role in health and diseases	28	6	10	12	Project report
5.	Microextraction techniques in the analysis of food and beverages flavor compounds	10	4	3	3	Project report
6.	Modern techniques of food products packaging	20	4	10	6	Project report
7.	Design of food composition	20	5	10	5	Project report
8.	Managing allergens in the food sector	10	2	4	4	Project report
9.	Final assessment	4	-	4	-	defense
10.	<b>Total</b>	<b>144</b>	<b>35</b>	<b>61</b>	<b>48</b>	