**Study Agenda of Academic Level Bachelor Study program**

**“Food Quality and Innovations”**

| **N.p.k.** | **LLU IS Register code** | **Study courses** | **Capacity of courses** | | **Method of assessment** | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | | **1. level** | | | | **2. level** | | | | **3. level** | | | | **4. level** | | |
|  |  |  |  | | **1.sem.** | | **2.sem.** | | **3.sem.** | | **4.sem.** | | **5.sem.** | | **6.sem.** | | **7.sem.** | | **8.sem.** |
|  |  |  | **CP** | **ECTS** |  | |  | |  | |  | |  | |  | |  | |  |
| **1** | **2** | **3** | **4** | **5** | **6** | | **7** | | **8** | | **9** | | **10** | | **11** | | **12** | | **13** |
| **A PART – Compulsory study courses (123 KP/184.5 ECTS)** | | | | | | | | | | | | | | | | | | | |
| 1 | PārZ1011 | Fundamentals of Food Science I | **2** | *3* | **Pm** | |  | |  | |  | |  | |  | |  | |  |
| 2 | Ķīmi2020 | Inorganic and analytical chemistry | **4** | *6* | **E** | |  | |  | |  | |  | |  | |  | |  |
| 3 | Mate1039 | Applied mathematics | **5** | *7,5* | **E** | |  | |  | |  | |  | |  | |  | |  |
| 5 | PārZ1013 | Food Law | **2** | *3* | **1+1**  **Pm** | |  | |  | |  | |  | |  | |  | |  |
| 7 | [PārZ1003](https://irma.cs.llu.lv/pls/llus/kursi.kurss_dati?l=1&p_kods=GPAR1003&p_par=druk) | Biology of Raw Materials of Food | **2** | *3* | **E** | |  | |  | |  | |  | |  | |  | |  |
| 8 | Fizi2039 | Physics in food technologies | **3** | *4,5* |  | | **E** | |  | |  | |  | |  | |  | |  |
| 9 | Ķīmi2018 | Food Organic Chemistry | **4** | *6* |  | | **E** | |  | |  | |  | |  | |  | |  |
| 10 | Ķīmi2019 | Physical and Colloidal Chemistry | **3** | *4,5* |  | | **Pm** | |  | |  | |  | |  | |  | |  |
| 11 | Ķīmi2021 | Biochemistry | **4** | *6* |  | | **E** | |  | |  | |  | |  | |  | |  |
| 12 | PārZ1012 | Fundamentals of Food Science II | **2** | *3* |  | | **Pm** | |  | |  | |  | |  | |  | |  |
| 13 | [PārZ1016](https://lais.llu.lv/pls/llus/kursi.kurss_dati?l=1&p_kods=GPAR1016) | Fundamentals of Food Science (Course work) | **2** | *3* |  | | **CP** | |  | |  | |  | |  | |  | |  |
| 14 | Valo1053 | **Latvian Language I\*** | **2** | *6* |  | |  | |  | | **Pm** | |  | |  | |  | |  |
| 15 | Valo2056 | **Latvian Language II\*** | **2** | *6* |  | |  | |  | | **Pm** | |  | |  | |  | |  |
| 16 | PārZ2062 | Nutrition | **2** | *3* |  | |  | | **Pm** | |  | |  | |  | |  | |  |
| 17 | PārZ1015 | Quality systems | **2** | *3* |  | |  | | **Pm** | |  | |  | |  | |  | |  |
| 18 | PārZ1014 | Hygiene requirements in the enterprise | **2** | *3* |  | |  | | **Pm** | |  | |  | |  | |  | |  |
| 19 | PārZ2061 | Nutrition Physiology (KD) | **2** | *3* |  | |  | | **CP** | |  | |  | |  | |  | |  |
| 20 | PārZ3089 | New Food Product Development | **2** | *3* |  | |  | | **E** | |  | |  | |  | |  | |  |
| 21 | PārZ4060 | Food Additives | **2** | *3* |  | |  | | **Pm** | |  | |  | |  | |  | |  |
| 22 | PārZ2067 | Food Microbiology | **2** | *3* |  | |  | | **Pm** | |  | |  | |  | |  | |  |
| 23 | PārZ3088 | **Food Processing Equipment** | **3** | *4,5* |  | |  | | **E** | |  | |  | |  | |  | |  |
| 24 | PārZ2063 | Food Products Packaging | **2** | *3* |  | |  | | **Pm** | |  | |  | |  | |  | |  |
| 25 | PārZ4014 | Sensory Evaluation of Food | **2** | *3* |  | |  | | **Pm** | |  | |  | |  | |  | |  |
| ***Modules for Animal Raw Materials Processing*** | | | | | | | | | | | | | | | | | | | |
| 26 | PārZ3082 | Fish processing technology | **6** | *9* |  | |  | |  | | **E** | |  | |  | |  | |  |
| 27 | PārZ2060 | Milk processing technology | **8** | *12* |  | |  | |  | | **E** | |  | |  | |  | |  |
| 28 | PārZ3083 | Development of innovative productsI (course work) | **2** | *3* |  | |  | |  | | **CP** | |  | |  | |  | |  |
| 29 | PārZ3081 | **Meat processing technologies** | **8** | *12* |  | |  | |  | |  | | **E** | |  | |  | |  |
| ***Modules for Plant Raw Materials Processing*** | | | | | | | | | | | | | | | | | | | |
| 30 | PārZ3087 | Fruit and vegetable processing technologies | **8** | *12* |  | |  | |  | |  | | **E** | |  | |  | |  |
| 31 | PārZ3084 | Development of innovative productsII (course work) | **2** | *3* |  | |  | |  | |  | | **CP** | |  | |  | |  |
| 32 | PārZ3080 | Cereal technology | **8** | *12* |  | |  | |  | |  | |  | | **E** | |  | |  |
| 33 | PārZ3086 | Beverage Production Technology | **7** | *10,5* |  | |  | |  | |  | |  | | **E** | |  | |  |
| 34 | PārZ3085 | Development of innovative productsIII (course work) | **2** | *3* |  | |  | |  | |  | |  | | **CP** | |  | |  |
| 35 | [Citi4016](https://irma.cs.llu.lv/pls/llus/kursi.kurss_dati?l=1&p_kods=GCIT4017&p_par=druk" \t "GCIT4017) | Labour and Cilvil Protection | **2** | *3* |  | |  | |  | |  | |  | |  | | **Pm** | |  |
| 36 | [VidZ3006](https://irma.cs.llu.lv/pls/llus/kursi.kurss_dati?l=1&p_kods=GVID3006&p_par=druk) | Ecology and Environmental Protection | **2** | *3* |  | |  | |  | |  | |  | |  | | **Pm** | |  |
| 37 | [PārZ4009](https://irma.cs.llu.lv/pls/llus/kursi.kurss_dati?l=1&p_kods=GPAR4009&p_par=druk" \t "GPAR4009) | Bachelor Thesis | **10** | *15* |  | |  | |  | |  | |  | |  | |  | | **E** |
| **Total** | | | **123** | *184,5* | **19** | | **18** | | **21** | | **16** | | **18** | | **17** | | **4** | | **10** |
| **B PART – LIMITED SELECTION STUDIES (32 KP/ 48 ECTS)** | | | | | | | | | | | | | | | | | | | |
| 1 | VadZ2049 | Human Resource Management | **2** | *3* |  |  | |  | |  | |  | |  | | **Pm** | |  | |
| 2 | Ekon4024 | Entrepreneurship in food industry | **2** | *3* |  |  | |  | |  | |  | |  | | **E** | |  | |
| 3 | Ekon2130 | **Economy theory** | **2** | *3* |  |  | |  | |  | |  | |  | | **E** | |  | |
| 4 | Ekon4082 | Food Marketing | **2** | *3* |  |  | |  | |  | |  | |  | | **Pm** | |  | |
| 5 | VadZ2029 | Analysis of Economic Activities | **2** | *3* |  |  | |  | |  | |  | |  | | **Pm** | |  | |
| 6 | VadZ2026 | Project Management | **2** | *3* |  |  | |  | |  | |  | |  | | **E** | |  | |
| 7 | PārZ3078 | Quality assurance methods | **2** | *3* |  |  | |  | |  | |  | |  | | **E** | |  | |
| 9 | Soci2036 | **Sociology** | **2** | *3* |  |  | |  | |  | |  | |  | | **Pm** | |  | |
| 10 | PārZ3079 | Innovations in Research (KD) | **2** | *3* |  |  | |  | |  | |  | |  | |  | | **CP** | |
| ***Practice*** | |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |
| 1 | [PārZP029](https://irma.cs.llu.lv/pls/llus/kursi.kurss_dati?l=1&p_kods=GPARP007&p_par=druk" \t "GPARP007) | Introduction of Food Industry | **3** | *4,5* |  | **P** | |  | |  | |  | |  | |  | |  | |
| 2 | PārZP063 | Quality in the food company | **3** | *4,5* |  |  | |  | | **P** | |  | |  | |  | |  | |
| 3 | PārZP043 | Innovation in the food company | **3** | *4,5* |  |  | |  | |  | |  | | **P** | |  | |  | |
| 4 | [PārZP030](https://irma.cs.llu.lv/pls/llus/kursi.kurss_dati?l=1&p_kods=GPARP010&p_par=druk" \t "GPARP010) | Research work | **8** | *12* |  |  | |  | |  | |  | |  | |  | | **P** | |
|  |  | **Total** | **31** | *46,5* | **-** | **3** | | **-** | | **3** | | **-** | | **3** | | **12** | | **10** | |
| **C PART -**  **Elective study courses (6 KP +3 KP sports)** | | | | | | | | | | | | | | | | | | | |
| 1 |  | **Elective study courses** | **6** | *9* | **4** | **2** | |  | |  | |  | |  | |  | |  | |
| **Total** | | | **160** | ***240*** | **19** | **21** | | **21** | | **19** | | **20** | | **20** | | **20** | | **20** | |
|  | | |  |  | **40** | | | **40** | | | | **40** | | | | **40** | | | |

P - formal test, Pm– formal test (grade), E – exam, KD – course work, CP – credit points, ETCS – European Credit Transfer Credit Points

\*- study course for students who undertake the study programme in English.