

TECHNOLOGICAL ENGINEERING – I YEAR

Module: Environmental Engineering

| No. | Course Title | I Semester | II Semester | ECTS |
|-----|---|--------------|--------------|-----------|
| 1 | Mathematics 1 | 2+2 | | 6 |
| 2 | Electrical Engineering with Electronics | 2+2 | | 6 |
| 3 | Physics | 2+2 | | 6 |
| 4 | Chemistry 1 | 2+2 | | 6 |
| 5 | Biology | 2+2 | | 6 |
| | | 10+10 | | 30 |
| 6 | Mathematics 2 | | 2+2 | 6 |
| 7 | Informatics Fundamentals | | 2+2 | 6 |
| 8 | Sociology | | 2+2 | 6 |
| 9 | Chemistry 2 | | 2+2 | 6 |
| 10 | Elective Course 1 | | 2+2 | 6 |
| | | | 10+10 | 30 |

Elective course 1: students choose one of the following courses:

- English Language 1
- Russian Language 1

Module: Food Engineering

| No. | Course Title | I Semester | II Semester | ECTS |
|-----|---|--------------|--------------|-----------|
| 1 | Mathematics 1 | 2+2 | | 6 |
| 2 | Electrical Engineering with Electronics | 2+2 | | 6 |
| 3 | Physics | 2+2 | | 6 |
| 4 | Chemistry 1 | 2+2 | | 6 |
| 5 | Biology | 2+2 | | 6 |
| | | 10+10 | | 30 |
| 6 | Mathematics 2 | | 2+2 | 6 |
| 7 | Informatics Fundamentals | | 2+2 | 6 |
| 8 | Sociology | | 2+2 | 6 |
| 9 | Chemistry 2 | | 2+2 | 6 |
| 10 | Elective Course 1 | | 2+2 | 6 |
| | | | 10+10 | 30 |

Elective course 1: students choose one of the following courses:

- English Language 1
- Russian Language 1

TECHNOLOGICAL ENGINEERING – II YEAR

Module: Environmental Engineering

| No. | Course Title | III Semester | IV Semester | ECTS |
|-----|---|--------------|--------------|-----------|
| 1 | Physical Chemistry | 2+2 | | 6 |
| 2 | Sources of Pollution in Environment and Workplace | 2+2 | | 6 |
| 3 | Materials | 2+2 | | 6 |
| 4 | Occupational Safety | 2+2 | | 6 |
| 5 | Elective Course 2 | 2+2 | | 6 |
| | | 12+10 | | 30 |
| 6 | Processing Devices | | 2+2 | 6 |
| 7 | Technological Processes | | 2+2 | 6 |
| 8 | Thermodynamics | | 2+2 | 6 |
| 9 | Environmental Protection | | 2+2 | 6 |
| 10 | Waste Management | | 2+2 | 6 |
| | | | 10+10 | 30 |

Elective course 2: students choose one of the following courses:

- English Language 2
- Russian Language 2

Module: Food Engineering

| No. | Course Title | III Semester | IV Semester | ECTS |
|-----|---|--------------|--------------|-----------|
| 1 | Physical Chemistry | 2+2 | | 6 |
| 2 | Thermodynamics | 2+2 | | 6 |
| 3 | Microbiology | 2+2 | | 6 |
| 4 | Occupational Safety | 2+2 | | 6 |
| 5 | Elective Course 2 | 2+2 | | 6 |
| | | 10+10 | | 30 |
| 6 | Processing Devices | | 2+2 | 6 |
| 7 | Technological Processes | | 2+2 | 6 |
| 8 | Sources of Pollution in Environment and Workplace | | 2+2 | 6 |
| 9 | Environmental Protection | | 2+2 | 6 |
| 10 | Waste Management | | 2+2 | 6 |
| | | | 10+10 | 30 |

Elective course 2: students choose one of the following courses:

- English Language 2
- Russian Language 2

TECHNOLOGICAL ENGINEERING – III YEAR

Module: Environmental Engineering

| No. | Course Title | V Semester | VI Semester | ECTS |
|-----|-----------------------------------|--------------|--------------|-----------|
| 1 | Business and Environmental Ethics | 2+2 | | 5 |
| 2 | Instrumental Methods of Analysis | 2+2 | | 5 |
| 3 | Wastewater Treatment Technologies | 2+2 | | 5 |
| 4 | Elective Course 3 | 2+2 | | 5 |
| 5 | Elective Course 4 | 2+2 | | 5 |
| | | 10+10 | | 25 |
| 6 | Industrial Ecoprotection | | 3+3 | 6 |
| 7 | New Technologies and Materials | | 3+3 | 6 |
| 8 | Elective Course 5 | | 2+2 | 5 |
| 9 | Electrical Hazards and Safety | | 2+2 | 5 |
| 10 | Practical Training | | | 4 |
| 11 | Undergraduate Thesis | | | 9 |
| | | | 10+10 | 35 |

Elective course 3: students choose one of the following courses:

- Surface Engineering
- Corrosion and Protection

Elective course 4: students choose one of the following courses:

- Environmental Management
- Product Quality Control

Elective course 5: students choose one of the following courses:

- Radiation and Protection
- Energy and Environment

Module: Food Engineering

| No. | Course Title | V Semester | VI Semester | ECTS |
|-----|---|--------------|--------------|-----------|
| 1 | Business and Environmental Ethics | 2+2 | | 5 |
| 2 | Product Quality Control | 2+2 | | 5 |
| 3 | Meat Industry – Technologies for Processing Meat and By-Products | 2+2 | | 5 |
| 4 | Dairy Industry – Technologies for Processing Milk and Dairy By-Products | 2+2 | | 5 |
| 5 | Elective Course 3 | 2+2 | | 5 |
| | | 10+10 | | 25 |
| 6 | Fruit and Vegetable Processing Technology | | 2+2 | 5 |
| 7 | Food Chilling, Freezing and Drying Technology | | 3+3 | 6 |
| 8 | Elective Course 4 | | 3+3 | 6 |
| 9 | Elective Course 5 | | 2+2 | 5 |
| 10 | Practical Training | | | 4 |
| 11 | Undergraduate Thesis | | | 9 |
| | | | 10+10 | 35 |

Elective course 3: students choose one of the following courses:

- Instrumental Methods of Analysis
- Wastewater Treatment Technologies

Elective course 4: students choose one of the following courses:

- Industrial Ecoprotection
- New Technologies and Materials

Elective course 5: students choose one of the following courses:

- Radiation and Protection
- Electrical Hazards and Safety