



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| TDİ 195  | TURKISH LANGUAGE I |                    |     |        |      |
|----------|--------------------|--------------------|-----|--------|------|
| Semester | Code               | Name               | T+P | Credit | ECTS |
| 1        | TDİ 195            | TURKISH LANGUAGE I | 2   | 2      | 2    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor             | Course Assistants |
|----------------------------------|--------------|--------------------|------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Instructor Murat ALTUĞ | None              |

The aim of lesson :

The aims of the turkish language lecture are to make higher education students comprehend the structure and function of the mother tongue according to higher education act and to get them the ability of using turkish correctly and smooth by means of both written and oral expression,to obtain a unifying and supplemental language in education,to strenghten their mother tongue awareness by presenting beautiful and precious examples of turkish literature.

Course Contents :

Language and languages,connection of language and culture,the place of turkish language among world languages,languages in terms of source and structure,historical development of literary writing:old turkish,middle turkish,turkish of harezmi,ancient anatolian turkish;new term of turkish,modern term of turkish,turkish of west,turkish of southwest, turkish of turkey,turkish of east.phonetics,sound and formation of sound,vowel harmonies, vocal harmonies in turkish,characteristics of voices in turkish.the structure of syllables in turkish and stress,morphology,roots,bodies and grammar affixes(prefixes,suffixes),words in terms of expression and functions :nouns,adjectives,adverbs,verbs,conjugation of verbs, prepositions,conjunctions,semantics.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| İNG 185  | FOREIGN LANGUAGE I |                    |     |        |      |
|----------|--------------------|--------------------|-----|--------|------|
| Semester | Code               | Name               | T+P | Credit | ECTS |
| 1        | İNG 185            | FOREIGN LANGUAGE I | 2   | 2      | 2    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor             | Course Assistants |
|----------------------------------|--------------|--------------------|------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Instructor Hakan AYDIN | None              |

The aim of lesson :

The objective of the course is to bring the students from A1 to B1 level in terms of CEF (Common European Framework of Reference for Languages)

Course Contents :

Reading/ listening/ speaking/ writing about names and occupations, relationships, directions and transportation, people, events and times, clothes, home and work in English



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| AİT 192  | ATATURK'S PRİNCİPLES AND THE HISTORY OF REVOLÜTİONS-II |                                                        |     |        |      |
|----------|--------------------------------------------------------|--------------------------------------------------------|-----|--------|------|
| Semester | Code                                                   | Name                                                   | T+P | Credit | ECTS |
| 2        | AİT 192                                                | ATATURK'S PRİNCİPLES AND THE HISTORY OF REVOLÜTİONS-II | 2   | 2      | 2    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator            | Instructor                | Course Assistants |
|----------------------------------|--------------|-------------------------------|---------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | Associate Prof.Dr. Mustafa ÖZ | Instructor ERCİMET SARIAY | None              |

The aim of lesson :

The objective of the course is to give correct information about Turkish Independence War, the principles and the revolutions of Atatürk, Kemalist ideology, the history of Turkish Republic and to educate Turkish Youth as an inseperable whole with their country, nation and state on the principles and the Revolutions of Atatürk.

Course Contents :

Turkish Revalution: revalutions on fields of political, loyal, social, cultural, training.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1004 | BİOCHEMİSTRY |              |     |        |      |
|----------|--------------|--------------|-----|--------|------|
| Semester | Code         | Name         | T+P | Credit | ECTS |
| 2        | LVS 1004     | BİOCHEMİSTRY | 3   | 3      | 4    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                        | Course Assistants |
|----------------------------------|--------------|--------------------|-----------------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Burak Evren İnanan | None              |

The aim of lesson :

To teach basic biochemistry including the classifications, physical and chemical properties and functions of carbohydrates, proteins, lipids, enzymes and minerals

Course Contents :

Carbohydrates, proteins, fats, hormones, vitamins, coenzymes



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1002 | MICROBIOLOGY |              |     |        |      |
|----------|--------------|--------------|-----|--------|------|
| Semester | Code         | Name         | T+P | Credit | ECTS |
| 2        | LVS 1002     | MICROBIOLOGY | 4   | 4      | 5    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                    | Course Assistants |
|----------------------------------|--------------|--------------------|-------------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Associate Prof.Dr. Adil AKSOY | None              |

The aim of lesson :

To provide students with a foundational understanding of the basic structure, growth, and metabolism of microorganisms such as bacteria, viruses, and fungi that are important in veterinary health, the infections they cause in animals, and fundamental laboratory diagnosis, control, and prevention methods against these infections. The aim is for graduates to gain the competence to apply microbiological principles while working under the supervision of a veterinarian.

Course Contents :

History and scope of microbiology; classification and morphology of microorganisms (bacteria, viruses, fungi); principles of sterilization, disinfection, and antisepsis; microbial nutrition, growth, and genetics; concepts of infection, pathogenesis, and zoonoses; basic laboratory techniques (microscopy, staining, culture, isolation); general characteristics of important pathogenic bacteria, viruses, and fungi causing animal diseases. Introduction to basic immunology (immunity) concepts.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1012 | BASİC COMPUTER |                |     |        |      |
|----------|----------------|----------------|-----|--------|------|
| Semester | Code           | Name           | T+P | Credit | ECTS |
| 2        | LVS 1012       | BASİC COMPUTER | 2   | 2      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                 | Course Assistants |
|----------------------------------|--------------|--------------------|----------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Erinc GÜMÜŞ | None              |

The aim of lesson :

The aim of this course is to teach the students the basic computer skills which will be useful throughout their career.

Course Contents :

Introduction to computers, the number and coding systems, computer hardware, software, os, windows operating system, application software, office programs and applications, word processors, electronic calculator programs.



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**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|          |                     |                     |     |        |      |
|----------|---------------------|---------------------|-----|--------|------|
| TDİ 196  | TURKISH LANGUAGE-II |                     |     |        |      |
| Semester | Code                | Name                | T+P | Credit | ECTS |
| 2        | TDİ 196             | TURKISH LANGUAGE-II | 2   | 2      | 2    |

|                     |          |              |                          |                |
|---------------------|----------|--------------|--------------------------|----------------|
| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
| Secondary Education | Turkish  | Associate    | No                       | Required       |

|                                  |              |                    |                            |                   |
|----------------------------------|--------------|--------------------|----------------------------|-------------------|
| Department/Program               | Precondition | Course Coordinator | Instructor                 | Course Assistants |
| LABORATORY AND VETERINARY HEALTH |              | None               | Instructor Dr. Recep Çelik | None              |

The aim of lesson :

The aims of the turkish language lecture are to make higher education students comprehend the structure and function of the mother tongue according to higher education act and to get them the ability of using turkish correctly and smooth by means of both written and oral expression,to obtain a unifying and supplemental language in education,to strenghten their mother tongue awareness by presenting beautiful and precious examples of turkish literature

Course Contents :

The written expression forms such as;Phrases,true, side and metaphoric meanings of words, idioms,doublings,terms, language mistakes, sentence structure of Turkish, sentence elements, novels, articles, essays and poems, and types of expression such as; presentation, examples of reports and records, petitions , business letter and Curriculum Vitae (CV) writing, conversation and discussion.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|          |                     |                     |     |        |      |
|----------|---------------------|---------------------|-----|--------|------|
| İNG 186  | FOREİGN LANGUAGE-II |                     |     |        |      |
| Semester | Code                | Name                | T+P | Credit | ECTS |
| 2        | İNG 186             | FOREİGN LANGUAGE-II | 2   | 2      | 2    |

|                     |          |              |                          |                |
|---------------------|----------|--------------|--------------------------|----------------|
| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
| Secondary Education | Turkish  | Associate    | No                       | Required       |

|                                  |              |                    |                               |                   |
|----------------------------------|--------------|--------------------|-------------------------------|-------------------|
| Department/Program               | Precondition | Course Coordinator | Instructor                    | Course Assistants |
| LABORATORY AND VETERINARY HEALTH |              | None               | Instructor Ekmel Emrah Hakman | None              |

The aim of lesson :

The objective of the course is to bring the students from A1 to B1 level in terms of CEF (Common European Framework of Reference for Languages)

Course Contents :

Reading/ writing /listening/speaking exercises about activities, weather and ongoing activities, food, past events, appearance and health, abilities and requests, past, present and future plans in English



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|          |                                      |                                      |     |        |      |
|----------|--------------------------------------|--------------------------------------|-----|--------|------|
| LVS 2031 | Livestock Projects and Herd Tracking |                                      |     |        |      |
| Semester | Code                                 | Name                                 | T+P | Credit | ECTS |
| 3        | LVS 2031                             | Livestock Projects and Herd Tracking | 2   | 2      | 3    |

|                     |          |              |                          |                |
|---------------------|----------|--------------|--------------------------|----------------|
| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

|                                  |              |                    |                            |                             |
|----------------------------------|--------------|--------------------|----------------------------|-----------------------------|
| Department/Program               | Precondition | Course Coordinator | Instructor                 | Course Assistants           |
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Erinc Gümüş | Asist Prof.Dr. Behlül Sevim |

The aim of lesson :

The aim of this course is giving basic information on Livestock operations; sharing datum level of knowledge on providing livestock source, determining requirements on establishing the enterprise and prepearing feasibility study. The course also aims to give information to students on herd management.

Course Contents :

Giving information on basics of establishing livestock enterprises and herd management.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2001                         | BIRTH INFORMATION AND ARTIFICIAL INSEMINATION |                                               |                           |                   |      |
|----------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------|-------------------|------|
| Semester                         | Code                                          | Name                                          | T+P                       | Credit            | ECTS |
| 3                                | LVS 2001                                      | BIRTH INFORMATION AND ARTIFICIAL INSEMINATION | 4                         | 4                 | 4    |
| Education Type                   | Language                                      | Course Level                                  | Course Internship Status  | Type of Course    |      |
| Secondary Education              | Turkish                                       | Associate                                     | No                        | Required          |      |
| Department/Program               | Precondition                                  | Course Coordinator                            | Instructor                | Course Assistants |      |
| LABORATORY AND VETERINARY HEALTH |                                               | None                                          | Asist Prof.Dr. Eriş Gümüş | None              |      |

The aim of lesson :

- Teaching the students about obstetrics and gynaecology - Showing Determining estrus and reproductive management in livestock - Giving Information on Milking and Udder Diseases -Giving students theoretic knowledge on andrology, reproduction, artificial insemination and infertility.

Course Contents :

- Obstetric and Pregnancy - Pregnancy Problems and Intervention to Parturition - Reproductive Management and Estrus Control in Livestock - Milking Information and Solving Milking Problems - Examination of the female and male animal's genital system, methods of collecting and examination of semen - Insemination methods and infertility cases of male animals.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2033                         | BIO SAFETY   |                    |                             |                   |      |
|----------------------------------|--------------|--------------------|-----------------------------|-------------------|------|
| Semester                         | Code         | Name               | T+P                         | Credit            | ECTS |
| 3                                | LVS 2033     | BIO SAFETY         | 2                           | 2                 | 3    |
| Education Type                   | Language     | Course Level       | Course Internship Status    | Type of Course    |      |
| Secondary Education              | Turkish      | Associate          | No                          | Elective          |      |
| Department/Program               | Precondition | Course Coordinator | Instructor                  | Course Assistants |      |
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Behlül SEVİM | None              |      |

The aim of lesson :

The aim of this course is to give information about biosafety principles, applications and techniques in animal husbandry.

Course Contents :

Giving information about legal protocols and applications on biosafety.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2029                         | GENETIC      |                    |                                                       |                   |      |
|----------------------------------|--------------|--------------------|-------------------------------------------------------|-------------------|------|
| Semester                         | Code         | Name               | T+P                                                   | Credit            | ECTS |
| 3                                | LVS 2029     | GENETIC            | 2                                                     | 2                 | 3    |
| Education Type                   | Language     | Course Level       | Course Internship Status                              | Type of Course    |      |
| Secondary Education              | Turkish      | Associate          | No                                                    | Elective          |      |
| Department/Program               | Precondition | Course Coordinator | Instructor                                            | Course Assistants |      |
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Neşe Hayat AKSOY ;<br>Olga BÜYÜKLEBİCİ | None              |      |

The aim of lesson :

To provide the basic knowledge of principles of heredity, inheritance of qualitative and quantitative traits, hereditary diseases, mutations, population and quantitative genetics, genotype x environment interactions, biotechnology.

Course Contents :

Genetic, hereditary material in living things is a course that examines the structure and function.



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**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

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|-------------------------------------------------------------------------------------------------------------|----------------|----------------|--------------------------|-----------------------------------|-------------------|
| LVS 2037                                                                                                    | CELL CHEMISTRY |                |                          |                                   |                   |
| Semester                                                                                                    | Code           | Name           | T+P                      | Credit                            | ECTS              |
| 3                                                                                                           | LVS 2037       | CELL CHEMISTRY | 2                        | 2                                 | 3                 |
| Education Type                                                                                              | Language       | Course Level   | Course Internship Status | Type of Course                    |                   |
| Secondary Education                                                                                         | Turkish        | Associate      | No                       | Elective                          |                   |
| Department/Program                                                                                          | Precondition   |                | Course Coordinator       | Instructor                        | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                            |                |                | None                     | Asist Prof.Dr. Burak Evren İnanan | None              |
| The aim of lesson :                                                                                         |                |                |                          |                                   |                   |
| To understand structure of cell and its functions, chemical reactions occurred in cell                      |                |                |                          |                                   |                   |
| Course Contents :                                                                                           |                |                |                          |                                   |                   |
| Functions of membrane and organelles of cell, chemical bonds, membrane transportations, metabolic reactions |                |                |                          |                                   |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2039                             | ANALYSIS TECHNIQUES |                     |                          |                           |                   |
|--------------------------------------|---------------------|---------------------|--------------------------|---------------------------|-------------------|
| Semester                             | Code                | Name                | T+P                      | Credit                    | ECTS              |
| 3                                    | LVS 2039            | ANALYSIS TECHNIQUES | 2                        | 2                         | 3                 |
| Education Type                       | Language            | Course Level        | Course Internship Status | Type of Course            |                   |
| Secondary Education                  | Turkish             | Associate           | No                       | Elective                  |                   |
| Department/Program                   |                     | Precondition        | Course Coordinator       | Instructor                | Course Assistants |
| LABORATORY AND VETERINARY HEALTH     |                     |                     | None                     | Asist Prof.Dr. Mustafa ÖZ | None              |
| The aim of lesson :                  |                     |                     |                          |                           |                   |
| To teach basic laboratory techniques |                     |                     |                          |                           |                   |
| Course Contents :                    |                     |                     |                          |                           |                   |
| Laboratory basic knowledge           |                     |                     |                          |                           |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|--------------------------|----------------------------|-------------------|
| LVS 2041                                                                                                                                                                                   | OBSTETRICS AND GYNECOLOGY |                           |                          |                            |                   |
| Semester                                                                                                                                                                                   | Code                      | Name                      | T+P                      | Credit                     | ECTS              |
| 3                                                                                                                                                                                          | LVS 2041                  | OBSTETRICS AND GYNECOLOGY | 2                        | 2                          | 3                 |
| Education Type                                                                                                                                                                             | Language                  | Course Level              | Course Internship Status | Type of Course             |                   |
| Secondary Education                                                                                                                                                                        | Turkish                   | Associate                 | No                       | Elective                   |                   |
| Department/Program                                                                                                                                                                         |                           | Precondition              | Course Coordinator       | Instructor                 | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                           |                           |                           | None                     | Asist Prof.Dr. Erinç Gümüş | None              |
| The aim of lesson :                                                                                                                                                                        |                           |                           |                          |                            |                   |
| - Teaching the students about obstetrics and gynaecology - Showing Determining estrus and reproductive management in livestock - Giving Information on Milking and Udder Diseases          |                           |                           |                          |                            |                   |
| Course Contents :                                                                                                                                                                          |                           |                           |                          |                            |                   |
| - Obstetric and Pregnancy - Pregnancy Problems and Intervention to Parturient - Reproductive Management and Estrus Control in Livestock - Milking Information and Solving Milking Problems |                           |                           |                          |                            |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|--------------------------|-----------------------------------|-------------------|
| LVS 2034                                                                                                                                                                                                     | BIOTECHNOLOGY |               |                          |                                   |                   |
| Semester                                                                                                                                                                                                     | Code          | Name          | T+P                      | Credit                            | ECTS              |
| 4                                                                                                                                                                                                            | LVS 2034      | BIOTECHNOLOGY | 2                        | 2                                 | 3                 |
| Education Type                                                                                                                                                                                               | Language      | Course Level  | Course Internship Status | Type of Course                    |                   |
| Secondary Education                                                                                                                                                                                          | Turkish       | Associate     | No                       | Elective                          |                   |
| Department/Program                                                                                                                                                                                           |               | Precondition  | Course Coordinator       | Instructor                        | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                             |               |               | None                     | Asist Prof.Dr. Burak Evren İnanan | None              |
| The aim of lesson :<br>to teach basic information about Biotechnology                                                                                                                                        |               |               |                          |                                   |                   |
| Course Contents :<br>Definition of biotechnology and its history, the importance of biotechnology in the world, advances in biotechnology, biotechnology applications, and the methods used in biotechnology |               |               |                          |                                   |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|--------------------------|----------------------------|-------------------|
| LVS 2046                                                                                                                                                                                                                                                                                                                   | REPRODUCTION AND ARTIFICIAL INSEMINATION |                                          |                          |                            |                   |
| Semester                                                                                                                                                                                                                                                                                                                   | Code                                     | Name                                     | T+P                      | Credit                     | ECTS              |
| 4                                                                                                                                                                                                                                                                                                                          | LVS 2046                                 | REPRODUCTION AND ARTIFICIAL INSEMINATION | 2                        | 2                          | 3                 |
| Education Type                                                                                                                                                                                                                                                                                                             | Language                                 | Course Level                             | Course Internship Status | Type of Course             |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                        | Turkish                                  | Associate                                | No                       | Elective                   |                   |
| Department/Program                                                                                                                                                                                                                                                                                                         |                                          | Precondition                             | Course Coordinator       | Instructor                 | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                           |                                          |                                          | None                     | Asist Prof.Dr. Erinç Gümüş | None              |
| The aim of lesson :<br>Providing students with theoretic knowledge about Andrology, reproduction, artificial insemination, infertility and managing breeding activities in livestock enterprises.                                                                                                                          |                                          |                                          |                          |                            |                   |
| Course Contents :<br>Examination of the female and male animal genitalia, andrologia examination system, methods of collecting semen, examination with semen biochemical structure, semen dilution and short / long term storage, infertility cases of male animal, signs of oestrus of females, the optimal seeding time. |                                          |                                          |                          |                            |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|--------------------------|-------------------------------|-------------------------------|
| LVS 2016                                                                                                                                                                               | EPİDEMİYOLOJİ |               |                          |                               |                               |
| Semester                                                                                                                                                                               | Code          | Name          | T+P                      | Credit                        | ECTS                          |
| 4                                                                                                                                                                                      | LVS 2016      | EPİDEMİYOLOJİ | 2                        | 2                             | 3                             |
| Education Type                                                                                                                                                                         | Language      | Course Level  | Course Internship Status | Type of Course                |                               |
| Secondary Education                                                                                                                                                                    | Turkish       | Associate     | No                       | Elective                      |                               |
| Department/Program                                                                                                                                                                     |               | Precondition  | Course Coordinator       | Instructor                    | Course Assistants             |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                       |               |               | None                     | Associate Prof.Dr. ADİL AKSOY | Associate Prof.Dr. adil aksoy |
| The aim of lesson :<br>Movement in farm animals, digestive, respiratory, circulatory, excretory and reproductive systems, anatomical structures                                        |               |               |                          |                               |                               |
| Course Contents :<br>Movement system anatomy, anatomy of the digestive system, respiratory system, anatomy of the circulatory system, excretory system and reproductive system anatomy |               |               |                          |                               |                               |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2012                                                                                                       | ANIMAL SYSTEMATICS |                    |                          |                                   |                   |
|----------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------------|-----------------------------------|-------------------|
| Semester                                                                                                       | Code               | Name               | T+P                      | Credit                            | ECTS              |
| 4                                                                                                              | LVS 2012           | ANIMAL SYSTEMATICS | 2                        | 2                                 | 3                 |
| Education Type                                                                                                 | Language           | Course Level       | Course Internship Status | Type of Course                    |                   |
| Secondary Education                                                                                            | Turkish            | Associate          | No                       | Elective                          |                   |
| Department/Program                                                                                             |                    | Precondition       | Course Coordinator       | Instructor                        | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                               |                    |                    | None                     | Asist Prof.Dr. Burak Evren İnanan | None              |
| The aim of lesson :<br>to teach the biology, and taxonomy of animals ; their general features and life cycles. |                    |                    |                          |                                   |                   |
| Course Contents :<br>Taxa of vertebrates and invertebrates                                                     |                    |                    |                          |                                   |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2008                                                                                                                                                                                                                                                                                                            | Livestock Economy |                   |                          |                             |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|--------------------------|-----------------------------|-------------------|
| Semester                                                                                                                                                                                                                                                                                                            | Code              | Name              | T+P                      | Credit                      | ECTS              |
| 4                                                                                                                                                                                                                                                                                                                   | LVS 2008          | Livestock Economy | 2                        | 2                           | 3                 |
| Education Type                                                                                                                                                                                                                                                                                                      | Language          | Course Level      | Course Internship Status | Type of Course              |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                 | Turkish           | Associate         | No                       | Elective                    |                   |
| Department/Program                                                                                                                                                                                                                                                                                                  |                   | Precondition      | Course Coordinator       | Instructor                  | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                    |                   |                   | None                     | Asist Prof.Dr. Behlül Sevim | None              |
| The aim of lesson :<br>Inform the students for basic economic notions, inform for livestock economics, To teach the students how they can make the economic analysis of livestock enterprises, production planning and management , also lesson contribute knowledge the students rural disease and economic losses |                   |                   |                          |                             |                   |
| Course Contents :<br>Defining the basic concepts of the economics and explaining economical activities of livestock enterprise                                                                                                                                                                                      |                   |                   |                          |                             |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2044                                                                                                                                                                                   | PATHOLOGY |              |                          |                            |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|--------------------------|----------------------------|-------------------|
| Semester                                                                                                                                                                                   | Code      | Name         | T+P                      | Credit                     | ECTS              |
| 4                                                                                                                                                                                          | LVS 2044  | PATHOLOGY    | 2                        | 2                          | 3                 |
| Education Type                                                                                                                                                                             | Language  | Course Level | Course Internship Status | Type of Course             |                   |
| Secondary Education                                                                                                                                                                        | Turkish   | Associate    | No                       | Elective                   |                   |
| Department/Program                                                                                                                                                                         |           | Precondition | Course Coordinator       | Instructor                 | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                           |           |              | None                     | Asist Prof.Dr. Erinc GÜMÜŞ | None              |
| The aim of lesson :<br>Basic applications and equipment used in the pathology laboratory, inflammation, tumor, circulatory system disorders, damage to cells and tissues and regeneration. |           |              |                          |                            |                   |
| Course Contents :<br>Basic Pathology Information                                                                                                                                           |           |              |                          |                            |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                     |                          |                                   |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-----------------------------------|-------------------|
| LVS 2032                                                                                                                                                                                                                                                                                                                                                                                       | REPRODUCTIVE BIOLOGY AND PHYSIOLOGY |                                     |                          |                                   |                   |
| Semester                                                                                                                                                                                                                                                                                                                                                                                       | Code                                | Name                                | T+P                      | Credit                            | ECTS              |
| 4                                                                                                                                                                                                                                                                                                                                                                                              | LVS 2032                            | REPRODUCTIVE BIOLOGY AND PHYSIOLOGY | 2                        | 2                                 | 3                 |
| Education Type                                                                                                                                                                                                                                                                                                                                                                                 | Language                            | Course Level                        | Course Internship Status | Type of Course                    |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                                                                                            | Turkish                             | Associate                           | No                       | Elective                          |                   |
| Department/Program                                                                                                                                                                                                                                                                                                                                                                             |                                     | Precondition                        | Course Coordinator       | Instructor                        | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                                                                                               |                                     |                                     | None                     | Asist Prof.Dr. Burak Evren İNANAN | None              |
| The aim of lesson :<br>To understand human biology in terms of anatomy and physiology, to use knowledge in connection with daily life, to teach human physiology and related diseases                                                                                                                                                                                                          |                                     |                                     |                          |                                   |                   |
| Course Contents :<br>1. Structure and function of the body with the division and basic structure of the body 2. Movement system 3. The system of the body 4. The system of the body 5. The system of the body and the senses 6. The endocrine system 7. The system of formation 8. The system of respiration 9. The system of digestion 9. The digestive system system 11. Reproduction system |                                     |                                     |                          |                                   |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                           |           |              |                          |                             |                   |
|-------------------------------------------------------------------------------------------|-----------|--------------|--------------------------|-----------------------------|-------------------|
| LVS 2038                                                                                  | Zootechni |              |                          |                             |                   |
| Semester                                                                                  | Code      | Name         | T+P                      | Credit                      | ECTS              |
| 4                                                                                         | LVS 2038  | Zootechni    | 2                        | 2                           | 3                 |
| Education Type                                                                            | Language  | Course Level | Course Internship Status | Type of Course              |                   |
| Secondary Education                                                                       | Turkish   | Associate    | No                       | Elective                    |                   |
| Department/Program                                                                        |           | Precondition | Course Coordinator       | Instructor                  | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                          |           |              | None                     | Asist Prof.Dr. Behlül SEVİM | None              |
| The aim of lesson :<br>Adopt animal breeding techniques<br>Course Contents :<br>Livestock |           |              |                          |                             |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                   |                    |                    |                          |                            |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------------|----------------------------|-------------------|
| LVS 2014                                                                                                                                          | FOOT AND NAIL CARE |                    |                          |                            |                   |
| Semester                                                                                                                                          | Code               | Name               | T+P                      | Credit                     | ECTS              |
| 4                                                                                                                                                 | LVS 2014           | FOOT AND NAIL CARE | 2                        | 2                          | 3                 |
| Education Type                                                                                                                                    | Language           | Course Level       | Course Internship Status | Type of Course             |                   |
| Secondary Education                                                                                                                               | Turkish            | Associate          | No                       | Elective                   |                   |
| Department/Program                                                                                                                                | Precondition       |                    | Course Coordinator       | Instructor                 | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                  |                    |                    | None                     | Asist Prof.Dr. Erinc Gümüş | None              |
| The aim of lesson :                                                                                                                               |                    |                    |                          |                            |                   |
| Teaching of definition, ethiology, formation mechanisms, clinical findings, diagnosis, prevention and treatment of foot diseases in the livestock |                    |                    |                          |                            |                   |
| Course Contents :                                                                                                                                 |                    |                    |                          |                            |                   |
| Foot problems and treatment methods of them in the livestock                                                                                      |                    |                    |                          |                            |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                                                      |                                  |                                  |                               |                                |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|-------------------------------|--------------------------------|-------------------|
| LVS 2002                                                                                                                                                                             | VOCATIONAL EDUCATION IN BUSINESS |                                  |                               |                                |                   |
| Semester                                                                                                                                                                             | Code                             | Name                             | T+P                           | Credit                         | ECTS              |
| 4                                                                                                                                                                                    | LVS 2002                         | VOCATIONAL EDUCATION IN BUSINESS | 40                            | 40                             | 30                |
| Education Type                                                                                                                                                                       | Language                         | Course Level                     | Course Internship Status      | Type of Course                 |                   |
| Secondary Education                                                                                                                                                                  | Turkish                          | Associate                        | No                            | Elective                       |                   |
| Department/Program                                                                                                                                                                   | Precondition                     |                                  | Course Coordinator            | Instructor                     | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                     |                                  |                                  | Associate Prof.Dr. Mustafa ÖZ | Associate Prof.Dr. ERİNÇ GÜMÜŞ | None              |
| The aim of lesson :                                                                                                                                                                  |                                  |                                  |                               |                                |                   |
| To gain the workplace and work flow rules necessary for the student to gain more efficient and productive sectoral accumulation and hardware experience in stakeholder institutions. |                                  |                                  |                               |                                |                   |
| Course Contents :                                                                                                                                                                    |                                  |                                  |                               |                                |                   |
| Fully composed of applications                                                                                                                                                       |                                  |                                  |                               |                                |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2007                                                                                                                                                                                                                                                                                                                | ANIMAL PRODUCT TECHNOLOGIES |                             |                          |                                     |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|--------------------------|-------------------------------------|-------------------|
| Semester                                                                                                                                                                                                                                                                                                                | Code                        | Name                        | T+P                      | Credit                              | ECTS              |
| 3                                                                                                                                                                                                                                                                                                                       | LVS 2007                    | ANIMAL PRODUCT TECHNOLOGIES | 3                        | 3                                   | 4                 |
| Education Type                                                                                                                                                                                                                                                                                                          | Language                    | Course Level                | Course Internship Status | Type of Course                      |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                     | Turkish                     | Associate                   | No                       | Required                            |                   |
| Department/Program                                                                                                                                                                                                                                                                                                      | Precondition                |                             | Course Coordinator       | Instructor                          | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                        |                             |                             | None                     | Asist.Prof.Dr. Güngör Çağdaş DİNÇEL | None              |
| The aim of lesson :<br>It is aimed that students will be able to control sanitary control in the field of dairy science, dairy hygiene and milk microbiology and milk microbiology after graduation in accordance with the theoretical and practical knowledge required for specialists in food hygiene and technology. |                             |                             |                          |                                     |                   |
| Course Contents :<br>Milk chemistry, microbiology, nutritional properties, technology.                                                                                                                                                                                                                                  |                             |                             |                          |                                     |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2009                                               | INTERNSHIP EVALUATION |                       |                          |                           |                   |
|--------------------------------------------------------|-----------------------|-----------------------|--------------------------|---------------------------|-------------------|
| Semester                                               | Code                  | Name                  | T+P                      | Credit                    | ECTS              |
| 3                                                      | LVS 2009              | INTERNSHIP EVALUATION | 2                        | 2                         | 5                 |
| Education Type                                         | Language              | Course Level          | Course Internship Status | Type of Course            |                   |
| Secondary Education                                    | Turkish               | Associate             | No                       | Required                  |                   |
| Department/Program                                     |                       | Precondition          | Course Coordinator       | Instructor                | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                       |                       |                       | None                     | Asist Prof.Dr. adil aksoy | None              |
| The aim of lesson :                                    |                       |                       |                          |                           |                   |
| See real landscape application and present as a report |                       |                       |                          |                           |                   |
| Course Contents :                                      |                       |                       |                          |                           |                   |
| Landscape application , present as a report.           |                       |                       |                          |                           |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2011 | IMMUNOLOGY AND VACCINE APPLICATIONS |                                     |     |        |      |
|----------|-------------------------------------|-------------------------------------|-----|--------|------|
| Semester | Code                                | Name                                | T+P | Credit | ECTS |
| 3        | LVS 2011                            | IMMUNOLOGY AND VACCINE APPLICATIONS | 2   | 2      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

| Department/Program               | Precondition | Course Coordinator | Instructor                    | Course Assistants |
|----------------------------------|--------------|--------------------|-------------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Associate Prof.Dr. Adil AKSOY | None              |

The aim of lesson :

It's aimed to have information about the main components of immunology, immune response, hypersensitivity reactions, autoimmune diseases, vaccines and vaccination.

Course Contents :

Definition of immunology, basic concepts in immunology, immune system organs and immune system cells; Antigen and antigen receptors; Immunoglobulins (antibodies), basic structures, heavy and light chain types, classes and functions as antigen receptor immunoglobulins; Phagocytosis and phagocytosis cells, macrophage and neutrophil phagocytosis, importance of phagocytosis in immune response; Humoral immune response; Cellular immune response; Immunological tolerance and mucosal immunity; Fetal and neonatal immunity; Immunity to bacteria; Immunity to viruses; Hypersensitivity reactions, types and mechanisms, autoimmunity and formation mechanisms; Definition of vaccine and vaccine types; Immunization with vaccines; Veterinary vaccines.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2013 | SECTOR APPLICATIONS 1 |                       |     |        |      |
|----------|-----------------------|-----------------------|-----|--------|------|
| Semester | Code                  | Name                  | T+P | Credit | ECTS |
| 3        | LVS 2013              | SECTOR APPLICATIONS 1 | 2   | 2      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

| Department/Program               | Precondition | Course Coordinator | Instructor                         | Course Assistants |
|----------------------------------|--------------|--------------------|------------------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Asist Prof.Dr. Meriç Lütfi Avsever | None              |

The aim of lesson :

Technical trips to different institutions in the livestock sector, aiming to be involved in the applications there

Course Contents :

Sector applications translate kulaklık 1 2 3 4 5 6 7 8 9 10 Sonraki



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2021 | ANIMAL BEHAVIOR AND WELFARE |                             |     |        |      |
|----------|-----------------------------|-----------------------------|-----|--------|------|
| Semester | Code                        | Name                        | T+P | Credit | ECTS |
| 3        | LVS 2021                    | ANIMAL BEHAVIOR AND WELFARE | 2   | 2      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

| Department/Program               | Precondition | Course Coordinator | Instructor                | Course Assistants |
|----------------------------------|--------------|--------------------|---------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Asist Prof.Dr. Mustafa ÖZ | None              |

The aim of lesson :

It is aimed to teach the behaviors of farm animals and the factors that affect their welfare to the students.

Course Contents :

Establishment of behavioral biology of domestic species, determination of behavioral requirements, development of biological descriptors for animal welfare towards practice, investigation of the effects of different maintenance, feeding conditions on animal behavior.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PREVENTIVE MEDICINE |                     |                                     |                     |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-------------------------------------|---------------------|-------------------|
| Semester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Code                | Name                | T+P                                 | Credit              | ECTS              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LVS 2023            | PREVENTIVE MEDICINE | 2                                   | 2                   | 3                 |
| Education Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Language            | Course Level        | Course Internship Status            | Type of Course      |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Turkish             | Associate           | No                                  | Elective            |                   |
| Department/Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     | Precondition        | Course Coordinator                  | Instructor          | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                     | Asist Prof.Dr. Güngör Çağdaş DİNÇEL | Prof.Dr. MUSTAFA ÖZ | None              |
| The aim of lesson :<br>Use of preventive medicine and epidemiology information.<br>Course Contents :<br>Basic approaches of preventive medicine, definition and historical development of epidemiology, classification of epidemiological studies, data sources in epidemiology, concept of cause in epidemiology, sources of error in epidemiology, descriptive studies, case - control studies, cross - sectional surveys, community surveys, cohort studies, planning and sampling methods, research report writing |                     |                     |                                     |                     |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2025                                                                                                          | HEALTH AND PROTECTION OF PET ANIMALS |                                      |                          |                                    |                   |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------|------------------------------------|-------------------|
| Semester                                                                                                          | Code                                 | Name                                 | T+P                      | Credit                             | ECTS              |
| 3                                                                                                                 | LVS 2025                             | HEALTH AND PROTECTION OF PET ANIMALS | 2                        | 2                                  | 3                 |
| Education Type                                                                                                    | Language                             | Course Level                         | Course Internship Status | Type of Course                     |                   |
| Secondary Education                                                                                               | Turkish                              | Associate                            | No                       | Elective                           |                   |
| Department/Program                                                                                                |                                      | Precondition                         | Course Coordinator       | Instructor                         | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                  |                                      | None                                 |                          | Asist Prof.Dr. Meriç Lütfi Avsever | None              |
| The aim of lesson :<br>Health and Protection of Pet Animals<br>Course Contents :<br>Internal medicine, immunology |                                      |                                      |                          |                                    |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2027                                                                                                                                                                                                                                                                                                                                                                                               | NUTRITIONAL DISEASES IN FARM ANIMALS |                                      |                          |                           |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------|---------------------------|-------------------|
| Semester                                                                                                                                                                                                                                                                                                                                                                                               | Code                                 | Name                                 | T+P                      | Credit                    | ECTS              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                      | LVS 2027                             | NUTRITIONAL DISEASES IN FARM ANIMALS | 2                        | 2                         | 3                 |
| Education Type                                                                                                                                                                                                                                                                                                                                                                                         | Language                             | Course Level                         | Course Internship Status | Type of Course            |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                                                                                                    | Turkish                              | Associate                            | No                       | Elective                  |                   |
| Department/Program                                                                                                                                                                                                                                                                                                                                                                                     |                                      | Precondition                         | Course Coordinator       | Instructor                | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                                                                                                       |                                      | None                                 |                          | Asist Prof.Dr. Eriş Gümüş | None              |
| The aim of lesson :<br>Transferring the scientific and teorical knowledge on forming mechanism and preventing principals on diseases that occurred after toxication or absence of feeds and metabolic problems in consequence of malnutrition or undernutrition of livestock<br>Course Contents :<br>Learning the definition and preventing methods of nutritional diseases that occurred in livestock |                                      |                                      |                          |                           |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                                                                                                         |                       |                       |                          |                                   |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------|-----------------------------------|-------------------|
| LVS 2035                                                                                                                                                                                                                                | AQUARIUM FISH CULTURE |                       |                          |                                   |                   |
| Semester                                                                                                                                                                                                                                | Code                  | Name                  | T+P                      | Credit                            | ECTS              |
| 3                                                                                                                                                                                                                                       | LVS 2035              | AQUARIUM FISH CULTURE | 2                        | 2                                 | 3                 |
| Education Type                                                                                                                                                                                                                          | Language              | Course Level          | Course Internship Status | Type of Course                    |                   |
| Secondary Education                                                                                                                                                                                                                     | Turkish               | Associate             | No                       | Elective                          |                   |
| Department/Program                                                                                                                                                                                                                      |                       | Precondition          | Course Coordinator       | Instructor                        | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                        |                       |                       | None                     | Asist Prof.Dr. Burak Evren İNANAN | None              |
| The aim of lesson :                                                                                                                                                                                                                     |                       |                       |                          |                                   |                   |
| To gain skills in the design, construction and maintenance of aquariums. To introduce aquarium fish and plants. To give information about the biology, nutrition and breeding techniques of Aquarium fish with economical prescription. |                       |                       |                          |                                   |                   |
| Course Contents :                                                                                                                                                                                                                       |                       |                       |                          |                                   |                   |
| Aquarium Fish and Aquaculture                                                                                                                                                                                                           |                       |                       |                          |                                   |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------------------|---------------------------|-------------------|
| LVS 2004                                                                                                                                                                                                                                           | PARASİTOLOGY |              |                          |                           |                   |
| Semester                                                                                                                                                                                                                                           | Code         | Name         | T+P                      | Credit                    | ECTS              |
| 4                                                                                                                                                                                                                                                  | LVS 2004     | PARASİTOLOGY | 2                        | 2                         | 3                 |
| Education Type                                                                                                                                                                                                                                     | Language     | Course Level | Course Internship Status | Type of Course            |                   |
| Secondary Education                                                                                                                                                                                                                                | Turkish      | Associate    | No                       | Elective                  |                   |
| Department/Program                                                                                                                                                                                                                                 | Precondition |              | Course Coordinator       | Instructor                | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                   |              |              | None                     | Asist Prof.Dr. Eriç Gümüş | None              |
| The aim of lesson :                                                                                                                                                                                                                                |              |              |                          |                           |                   |
| Basic parasitological terms and definitions as well as the general biology, reproduction, transmission routes, pathogenicity of parasites, zoonose parasites and general prophylaxis measures against parasitic diseases are given to the students |              |              |                          |                           |                   |
| Course Contents :                                                                                                                                                                                                                                  |              |              |                          |                           |                   |
| Basic parasitological terms and definitions as well as the general biology, reproduction, transmission routes, pathogenicity of parasites, zoonose parasites and general prophylaxis measures against parasitic diseases are given to the students |              |              |                          |                           |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|--------------------------|-----------------------------|-------------------|
| LVS 2006                                                                                                                                                                                                                                                                                          | SHEEP BREEDING |                |                          |                             |                   |
| Semester                                                                                                                                                                                                                                                                                          | Code           | Name           | T+P                      | Credit                      | ECTS              |
| 4                                                                                                                                                                                                                                                                                                 | LVS 2006       | SHEEP BREEDING | 2                        | 2                           | 3                 |
| Education Type                                                                                                                                                                                                                                                                                    | Language       | Course Level   | Course Internship Status | Type of Course              |                   |
| Secondary Education                                                                                                                                                                                                                                                                               | Turkish        | Associate      | No                       | Elective                    |                   |
| Department/Program                                                                                                                                                                                                                                                                                |                | Precondition   | Course Coordinator       | Instructor                  | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                  |                |                | None                     | Asist Prof.Dr. Behlül Sevim | None              |
| The aim of lesson :                                                                                                                                                                                                                                                                               |                |                |                          |                             |                   |
| To teach as theoretical Morphological and physiological characteristics of the main sheep and goat breeds in the World and Turkey, sheep and goat breeding techniques, production records and controls in sheep and goat breeding, important sheep and goat diseases, prevention of this diseases |                |                |                          |                             |                   |
| Course Contents :                                                                                                                                                                                                                                                                                 |                |                |                          |                             |                   |
| To teach as theoretical Morphological and physiological characteristics of the main sheep and goat breeds in the World and Turkey, sheep and goat breeding techniques, production records and controls in sheep and goat breeding, important sheep and goat diseases, prevention of this diseases |                |                |                          |                             |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2010                                                                                           | PHARMACOLOGY AND TOXICOLOGY |                             |                          |                            |                   |
|----------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|--------------------------|----------------------------|-------------------|
| Semester                                                                                           | Code                        | Name                        | T+P                      | Credit                     | ECTS              |
| 4                                                                                                  | LVS 2010                    | PHARMACOLOGY AND TOXICOLOGY | 2                        | 2                          | 3                 |
| Education Type                                                                                     | Language                    | Course Level                | Course Internship Status | Type of Course             |                   |
| Secondary Education                                                                                | Turkish                     | Associate                   | No                       | Elective                   |                   |
| Department/Program                                                                                 |                             | Precondition                | Course Coordinator       | Instructor                 | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                   |                             |                             | None                     | Asist Prof.Dr. ERİNÇ GÜMÜŞ | None              |
| The aim of lesson :                                                                                |                             |                             |                          |                            |                   |
| To educate qualified students about pharmacodynamics and pharmacokinetics of drugs used in animals |                             |                             |                          |                            |                   |
| Course Contents :                                                                                  |                             |                             |                          |                            |                   |
| To educate qualified students about pharmacodynamics and pharmacokinetics of drugs used in animals |                             |                             |                          |                            |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2018                             | LABORATORY APPLICATIONS |                         |                          |                                    |                   |
|--------------------------------------|-------------------------|-------------------------|--------------------------|------------------------------------|-------------------|
| Semester                             | Code                    | Name                    | T+P                      | Credit                             | ECTS              |
| 4                                    | LVS 2018                | LABORATORY APPLICATIONS | 2                        | 2                                  | 3                 |
| Education Type                       | Language                | Course Level            | Course Internship Status | Type of Course                     |                   |
| Secondary Education                  | Turkish                 | Associate               | No                       | Elective                           |                   |
| Department/Program                   |                         | Precondition            | Course Coordinator       | Instructor                         | Course Assistants |
| LABORATORY AND VETERINARY HEALTH     |                         |                         | None                     | Asist Prof.Dr. MERİÇ LÜTFİ AVSEVER | None              |
| The aim of lesson :                  |                         |                         |                          |                                    |                   |
| To teach basic laboratory techniques |                         |                         |                          |                                    |                   |
| Course Contents :                    |                         |                         |                          |                                    |                   |
| Laboratory basic knowledge           |                         |                         |                          |                                    |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2020                                                                                                                                                                                                                                                                                                                                                                                | FISHERIES DISEASES |                    |                          |                           |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------------|---------------------------|-------------------|
| Semester                                                                                                                                                                                                                                                                                                                                                                                | Code               | Name               | T+P                      | Credit                    | ECTS              |
| 4                                                                                                                                                                                                                                                                                                                                                                                       | LVS 2020           | FISHERIES DISEASES | 2                        | 2                         | 3                 |
| Education Type                                                                                                                                                                                                                                                                                                                                                                          | Language           | Course Level       | Course Internship Status | Type of Course            |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                                                                                     | Turkish            | Associate          | No                       | Elective                  |                   |
| Department/Program                                                                                                                                                                                                                                                                                                                                                                      |                    | Precondition       | Course Coordinator       | Instructor                | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                                                                                        |                    |                    | None                     | Asist Prof.Dr. Mustafa ÖZ | None              |
| The aim of lesson :                                                                                                                                                                                                                                                                                                                                                                     |                    |                    |                          |                           |                   |
| Definition of fish and other aquatic life conditions, anatomical and physiological characteristics, fish and mussel culture, fish specimen sampling, fish examinations, sampling and sending techniques, drug application patterns and their viral, bacterial, fungal and parasitic diseases and other diseases, etiology , epizootiology, diagnosis, treatment and ways of protection. |                    |                    |                          |                           |                   |
| Course Contents :                                                                                                                                                                                                                                                                                                                                                                       |                    |                    |                          |                           |                   |
| General principles are taught in bacterial, viral and parasitic diseases of these derste fish and in the breeding of economically important fish species.                                                                                                                                                                                                                               |                    |                    |                          |                           |                   |



AKSARAY UNIVERSITY  
ESKİL VOCATIONAL SCHOOL  
LABORATORY AND VETERINARY HEALTH

| LVS 2030                                                                                                           | SECTOR APPLICATIONS 2 |                       |                          |                             |                   |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------|-----------------------------|-------------------|
| Semester                                                                                                           | Code                  | Name                  | T+P                      | Credit                      | ECTS              |
| 4                                                                                                                  | LVS 2030              | SECTOR APPLICATIONS 2 | 2                        | 2                           | 3                 |
| Education Type                                                                                                     | Language              | Course Level          | Course Internship Status | Type of Course              |                   |
| Secondary Education                                                                                                | Turkish               | Associate             | No                       | Elective                    |                   |
| Department/Program                                                                                                 |                       | Precondition          | Course Coordinator       | Instructor                  | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                   |                       |                       | None                     | Asist Prof.Dr. Behlül SEVİM | None              |
| The aim of lesson :                                                                                                |                       |                       |                          |                             |                   |
| Technical trips to different institutions in the livestock sector, aiming to be involved in the applications there |                       |                       |                          |                             |                   |
| Course Contents :                                                                                                  |                       |                       |                          |                             |                   |
| Sector applications translate kulaklık 1 2 3 4 5 6 7 8 9 10 Sonraki                                                |                       |                       |                          |                             |                   |



AKSARAY UNIVERSITY  
ESKİL VOCATIONAL SCHOOL  
LABORATORY AND VETERINARY HEALTH

| LVS 2024                            | ANESTHESIA AND REANIMATION |                            |                          |                              |                   |
|-------------------------------------|----------------------------|----------------------------|--------------------------|------------------------------|-------------------|
| Semester                            | Code                       | Name                       | T+P                      | Credit                       | ECTS              |
| 4                                   | LVS 2024                   | ANESTHESIA AND REANIMATION | 2                        | 2                            | 3                 |
| Education Type                      | Language                   | Course Level               | Course Internship Status | Type of Course               |                   |
| Secondary Education                 | Turkish                    | Associate                  | No                       | Elective                     |                   |
| Department/Program                  |                            | Precondition               | Course Coordinator       | Instructor                   | Course Assistants |
| LABORATORY AND VETERINARY HEALTH    |                            |                            | None                     | Research Assist. OSMAN DAĞAR | None              |
| The aim of lesson :                 |                            |                            |                          |                              |                   |
| Anesthesia and reanimation training |                            |                            |                          |                              |                   |
| Course Contents :                   |                            |                            |                          |                              |                   |
| Anesthesia and reanimation          |                            |                            |                          |                              |                   |



AKSARAY UNIVERSITY  
ESKİL VOCATIONAL SCHOOL  
LABORATORY AND VETERINARY HEALTH

| LVS 2026                                                                                                   | BREAST HEALTH AND DISEASES |                            |                          |                                    |                   |
|------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|--------------------------|------------------------------------|-------------------|
| Semester                                                                                                   | Code                       | Name                       | T+P                      | Credit                             | ECTS              |
| 4                                                                                                          | LVS 2026                   | BREAST HEALTH AND DISEASES | 2                        | 2                                  | 3                 |
| Education Type                                                                                             | Language                   | Course Level               | Course Internship Status | Type of Course                     |                   |
| Secondary Education                                                                                        | Turkish                    | Associate                  | No                       | Elective                           |                   |
| Department/Program                                                                                         |                            | Precondition               | Course Coordinator       | Instructor                         | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                           |                            |                            | None                     | Asist Prof.Dr. MERİÇ LÜTFİ AVSEVER | None              |
| The aim of lesson :                                                                                        |                            |                            |                          |                                    |                   |
| Breast Health of domestic animals, Care, About Diagnosis and Treatment of Disease Information to Acquiring |                            |                            |                          |                                    |                   |
| Course Contents :                                                                                          |                            |                            |                          |                                    |                   |
| Breast Anatomy in Domestic Animals, Physiology, Immune System, Disease And Breast Operations               |                            |                            |                          |                                    |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                            |                                      |                                      |                          |                                        |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------|----------------------------------------|-------------------|
| LVS 2040                                                                                                                                                   | TREATMENT KNOWLEDGE AND APPLICATIONS |                                      |                          |                                        |                   |
| Semester                                                                                                                                                   | Code                                 | Name                                 | T+P                      | Credit                                 | ECTS              |
| 4                                                                                                                                                          | LVS 2040                             | TREATMENT KNOWLEDGE AND APPLICATIONS | 2                        | 2                                      | 3                 |
| Education Type                                                                                                                                             | Language                             | Course Level                         | Course Internship Status | Type of Course                         |                   |
| Secondary Education                                                                                                                                        | Turkish                              | Associate                            | No                       | Elective                               |                   |
| Department/Program                                                                                                                                         |                                      | Precondition                         | Course Coordinator       | Instructor                             | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                           |                                      |                                      | None                     | Associate Prof.Dr. Meriç Lütfi Avsever | None              |
| The aim of lesson :<br>To make the treatment applications to the students<br>Course Contents :<br>Injections, catheter applications and other applications |                                      |                                      |                          |                                        |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                                                                                                                                                                                                                                                         |             |              |                          |                           |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|--------------------------|---------------------------|-------------------|
| LVS 2042                                                                                                                                                                                                                                                                                                                                                                                | AQUACULTURE |              |                          |                           |                   |
| Semester                                                                                                                                                                                                                                                                                                                                                                                | Code        | Name         | T+P                      | Credit                    | ECTS              |
| 4                                                                                                                                                                                                                                                                                                                                                                                       | LVS 2042    | AQUACULTURE  | 2                        | 2                         | 3                 |
| Education Type                                                                                                                                                                                                                                                                                                                                                                          | Language    | Course Level | Course Internship Status | Type of Course            |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                                                                                     | Turkish     | Associate    | No                       | Elective                  |                   |
| Department/Program                                                                                                                                                                                                                                                                                                                                                                      |             | Precondition | Course Coordinator       | Instructor                | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                                                                                        |             |              | None                     | Asist Prof.Dr. Mustafa ÖZ | None              |
| The aim of lesson :<br>Comprehending the general subjects of seafood<br>Course Contents :<br>Definition of aquaculture, history, characteristics of water, oceans and seas, lakes, streams, fishes, morphological characteristics of fish, physiological characteristics, anatomical structures, biology of some fish, fish farming systems, fishing gears, processing and preservation |             |              |                          |                           |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2048                                                                                                                            | DISEASES AND TREATMENT TECHNIQUES |                                   |                          |                                    |                   |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|--------------------------|------------------------------------|-------------------|
| Semester                                                                                                                            | Code                              | Name                              | T+P                      | Credit                             | ECTS              |
| 4                                                                                                                                   | LVS 2048                          | DISEASES AND TREATMENT TECHNIQUES | 2                        | 2                                  | 3                 |
| Education Type                                                                                                                      | Language                          | Course Level                      | Course Internship Status | Type of Course                     |                   |
| Secondary Education                                                                                                                 | Turkish                           | Associate                         | No                       | Elective                           |                   |
| Department/Program                                                                                                                  |                                   | Precondition                      | Course Coordinator       | Instructor                         | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                    |                                   |                                   | None                     | Asist Prof.Dr. Meriç Lütfi Avsever | None              |
| The aim of lesson :<br>To learn basic treatment techniques and to recognize diseases<br>Course Contents :<br>Diseases and treatment |                                   |                                   |                          |                                    |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2052 | Outbreak Diseases and Zoonoses |                                |     |        |      |
|----------|--------------------------------|--------------------------------|-----|--------|------|
| Semester | Code                           | Name                           | T+P | Credit | ECTS |
| 4        | LVS 2052                       | Outbreak Diseases and Zoonoses | 2   | 2      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

| Department/Program               | Precondition | Course Coordinator | Instructor                    | Course Assistants |
|----------------------------------|--------------|--------------------|-------------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Associate Prof.Dr. ADİL AKSOY | None              |

The aim of lesson :

People of zoonotic diseases (bacterial, viral and parasitic) , etiology, epidemiology, prevention and control of zoonotic diseases and knowledge of student training.

Course Contents :

People of zoonotic diseases (bacterial, viral and parasitic) , etiology, epidemiology, prevention and control of zoonotic diseases and knowledge of student training.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1008 | Basic Animal Science |                      |     |        |      |
|----------|----------------------|----------------------|-----|--------|------|
| Semester | Code                 | Name                 | T+P | Credit | ECTS |
| 2        | LVS 1008             | Basic Animal Science | 4   | 4      | 5    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                  | Course Assistants |
|----------------------------------|--------------|--------------------|-----------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Behlül Sevim | None              |

The aim of lesson :

Adopt animal breeding techniques

Course Contents :

Livestock



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1010 | Veterinary Ethics and Deontology |                                  |     |        |      |
|----------|----------------------------------|----------------------------------|-----|--------|------|
| Semester | Code                             | Name                             | T+P | Credit | ECTS |
| 2        | LVS 1010                         | Veterinary Ethics and Deontology | 2   | 2      | 4    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                 | Course Assistants |
|----------------------------------|--------------|--------------------|----------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Erinc GÜMÜŞ | None              |

The aim of lesson :

It is aimed to ensure the adoption of medical ethics and to provide guidance for the development of a strategy to be followed along ethical issues.

Course Contents :

Definition of crime related to health legislation, Place of health personnel in society, Team work in health services, Universal Declaration of Human Rights, Patients 'Rights, Patients' Rights, Medical Ethics, Deontology, Professional Ethics, Definition and Principles of Law Concepts, Principles of Medical Ethics, Principles of Occupational Profession, , Euthanasia and Ethics, Geriatrics and Ethics, Health management and related laws, Ethical Decision Models, Ethical Issues, Geneva Declaration



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                                                                                   |                       |                       |                          |                               |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------|-------------------------------|-------------------|
| LVS 2003                                                                                                                                                                                                          | BASIC ANIMAL DISEASES |                       |                          |                               |                   |
| Semester                                                                                                                                                                                                          | Code                  | Name                  | T+P                      | Credit                        | ECTS              |
| 3                                                                                                                                                                                                                 | LVS 2003              | BASIC ANIMAL DISEASES | 3                        | 3                             | 4                 |
| Education Type                                                                                                                                                                                                    | Language              | Course Level          | Course Internship Status | Type of Course                |                   |
| Secondary Education                                                                                                                                                                                               | Turkish               | Associate             | No                       | Required                      |                   |
| Department/Program                                                                                                                                                                                                | Precondition          |                       | Course Coordinator       | Instructor                    | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                  |                       |                       | None                     | Associate Prof.Dr. Adil AKSOY | None              |
| The aim of lesson :<br>Having knowledge about animal diseases. To have an opinion on the diagnosis of diseases.<br>Course Contents :<br>To have knowledge about general information and pathogenesis of diseases. |                       |                       |                          |                               |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2005                                                                                                                                            | FEED INFORMATION AND ANIMAL NUTRITION |                                       |                          |                                                           |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|--------------------------|-----------------------------------------------------------|-------------------|
| Semester                                                                                                                                            | Code                                  | Name                                  | T+P                      | Credit                                                    | ECTS              |
| 3                                                                                                                                                   | LVS 2005                              | FEED INFORMATION AND ANIMAL NUTRITION | 3                        | 3                                                         | 4                 |
| Education Type                                                                                                                                      | Language                              | Course Level                          | Course Internship Status | Type of Course                                            |                   |
| Secondary Education                                                                                                                                 | Turkish                               | Associate                             | No                       | Required                                                  |                   |
| Department/Program                                                                                                                                  |                                       | Precondition                          | Course Coordinator       | Instructor                                                | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                    |                                       |                                       | None                     | Asist Prof.Dr. Eriñç Gümüş<br>Asist Prof.Dr. Behlül Sevim | None              |
| The aim of lesson :<br>Feeding of animals considering their functions and requirements<br>Course Contents :<br>Animal nutrien, feeds and feed types |                                       |                                       |                          |                                                           |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1011                                      | TERMINOLOGY |              |                          |                                |                   |
|-----------------------------------------------|-------------|--------------|--------------------------|--------------------------------|-------------------|
| Semester                                      | Code        | Name         | T+P                      | Credit                         | ECTS              |
| 1                                             | LVS 1011    | TERMINOLOGY  | 2                        | 2                              | 2                 |
| Education Type                                | Language    | Course Level | Course Internship Status | Type of Course                 |                   |
| Secondary Education                           | Turkish     | Associate    | No                       | Required                       |                   |
| Department/Program                            |             | Precondition | Course Coordinator       | Instructor                     | Course Assistants |
| LABORATORY AND VETERINARY HEALTH              |             |              | None                     | Associate Prof.Dr. ERİNÇ GÜMÜŞ | None              |
| The aim of lesson :                           |             |              |                          |                                |                   |
| To teach veterinary health professional terms |             |              |                          |                                |                   |
| Course Contents :                             |             |              |                          |                                |                   |
| Terms                                         |             |              |                          |                                |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                              |                                      |                                      |                          |                                     |                   |
|--------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------|-------------------------------------|-------------------|
| LVS 2043                                                     | Clinical Laboratory and Applications |                                      |                          |                                     |                   |
| Semester                                                     | Code                                 | Name                                 | T+P                      | Credit                              | ECTS              |
| 3                                                            | LVS 2043                             | Clinical Laboratory and Applications | 2                        | 2                                   | 3                 |
| Education Type                                               | Language                             | Course Level                         | Course Internship Status | Type of Course                      |                   |
| Secondary Education                                          | Turkish                              | Associate                            | No                       | Elective                            |                   |
| Department/Program                                           |                                      | Precondition                         | Course Coordinator       | Instructor                          | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                             |                                      |                                      | None                     | Asist Prof.Dr. Meriç Lütüfi Avsever | None              |
| The aim of lesson :                                          |                                      |                                      |                          |                                     |                   |
| Clinical and laboratory information to consolidate, practice |                                      |                                      |                          |                                     |                   |
| Course Contents :                                            |                                      |                                      |                          |                                     |                   |
| Theoretical and practical                                    |                                      |                                      |                          |                                     |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                                                                                                                                  |                |                |                          |                             |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|--------------------------|-----------------------------|-------------------|
| LVS 2022                                                                                                                                                                                                                                                         | HORSE BREEDING |                |                          |                             |                   |
| Semester                                                                                                                                                                                                                                                         | Code           | Name           | T+P                      | Credit                      | ECTS              |
| 4                                                                                                                                                                                                                                                                | LVS 2022       | HORSE BREEDING | 2                        | 2                           | 3                 |
| Education Type                                                                                                                                                                                                                                                   | Language       | Course Level   | Course Internship Status | Type of Course              |                   |
| Secondary Education                                                                                                                                                                                                                                              | Turkish        | Associate      | No                       | Elective                    |                   |
| Department/Program                                                                                                                                                                                                                                               | Precondition   |                | Course Coordinator       | Instructor                  | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                 |                |                | None                     | Asist Prof.Dr. Behlül Sevim | None              |
| The aim of lesson :                                                                                                                                                                                                                                              |                |                |                          |                             |                   |
| To teach as theoretical Morphological and physiological characteristics of the main horse breeds in the World and Turkey, horse breeding techniques, production records and controls in horse breeding, important horse diseases and prevention of this diseases |                |                |                          |                             |                   |
| Course Contents :                                                                                                                                                                                                                                                |                |                |                          |                             |                   |
| To teach as theoretical Morphological and physiological characteristics of the main horse breeds in the World and Turkey, horse breeding techniques, production records and controls in horse breeding, important horse diseases, prevention of this diseases    |                |                |                          |                             |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                          |                                       |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|--------------------------|---------------------------------------|-------------------|
| LVS 2028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ECOLOGY AND ANIMAL CULTURE |                            |                          |                                       |                   |
| Semester                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Code                       | Name                       | T+P                      | Credit                                | ECTS              |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LVS 2028                   | ECOLOGY AND ANIMAL CULTURE | 2                        | 2                                     | 3                 |
| Education Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Language                   | Course Level               | Course Internship Status | Type of Course                        |                   |
| Secondary Education                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Turkish                    | Associate                  | No                       | Elective                              |                   |
| Department/Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            | Precondition               | Course Coordinator       | Instructor                            | Course Assistants |
| LABORATORY AND VETERINARY HEALTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                            | None                     | Associate Prof.Dr. Burak Evren İNANAN | None              |
| The aim of lesson :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                            |                          |                                       |                   |
| The aim of this course is to make the biologist to get familiar with the basic and essential information about the law. It is, with this respect, aimed to teach the main concepts and principles of law (legislations, regulations, printed notices ) regarding the environmental issues and to reach them when required.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                            |                          |                                       |                   |
| Course Contents :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                          |                                       |                   |
| Introduction and general definitions of regarding law, the benefits of law, the position of environmental law within general law concept, the historical development process of our environmental legislation. The law and legislation in our Constitution regarding environmental issues, Environmental law, the other law regarding environment, regulations and notices and legislations about environment, International Treaties, The applications of environmental legislation in Turkey, the importance of environmental inspections and the applications of the legislation of environmental inspections. The adaptation studies of European legislation and regulations at the process of being a member of European Union, the applications of environmental law. |                            |                            |                          |                                       |                   |



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2036                         | LABORATORY ANIMALS GROWING AND HEALTH |                                       |                          |                                     |                   |
|----------------------------------|---------------------------------------|---------------------------------------|--------------------------|-------------------------------------|-------------------|
| Semester                         | Code                                  | Name                                  | T+P                      | Credit                              | ECTS              |
| 4                                | LVS 2036                              | LABORATORY ANIMALS GROWING AND HEALTH | 2                        | 2                                   | 3                 |
| Education Type                   | Language                              | Course Level                          | Course Internship Status | Type of Course                      |                   |
| Secondary Education              | Turkish                               | Associate                             | No                       | Elective                            |                   |
| Department/Program               | Precondition                          |                                       | Course Coordinator       | Instructor                          | Course Assistants |
| LABORATORY AND VETERINARY HEALTH |                                       |                                       | None                     | Asist Prof.Dr. Güngör Çağdaş DİNÇEL | None              |

The aim of lesson :

It is shown to students how to train laboratory animals in different species in the most appropriate way in the context of ethical rules, in appropriate environment and hygiene conditions, and what applications are made to protect the health of these animals.

Course Contents :

The laboratory carries on the breeding and health of animals.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2050                         | VIROLOGY     |              |                               |                               |                   |
|----------------------------------|--------------|--------------|-------------------------------|-------------------------------|-------------------|
| Semester                         | Code         | Name         | T+P                           | Credit                        | ECTS              |
| 4                                | LVS 2050     | VIROLOGY     | 2                             | 2                             | 3                 |
| Education Type                   | Language     | Course Level | Course Internship Status      | Type of Course                |                   |
| Secondary Education              | Turkish      | Associate    | No                            | Elective                      |                   |
| Department/Program               | Precondition |              | Course Coordinator            | Instructor                    | Course Assistants |
| LABORATORY AND VETERINARY HEALTH |              |              | Associate Prof.Dr. ADİL AKSOY | Associate Prof.Dr. ADİL AKSOY | None              |

The aim of lesson :

To explain the general principles of virology, virological terms and descriptions, basic changes and macroscopic and microscopic changes in diseased tissues

Course Contents :

Inflammation-causes and pathogenesis, virus structure Inflammatory cells and process Classification of inflammation Terminology and denomination of inflammation Repair, anomalies Circulatory disturbances - hyperemia, anemia, haemorrhagia, shock Circulatory disturbances - thrombosis, emboli, infarction, edema, dehydration Necrosis Causes of disease and response to infection- physical and chemical causes Causes of disease and response to infection – biologic causes and nutritional disease Degenerations and metabolic disorders Pigments, crystals and mineral substances deposits Disorders of cell development and differentiation Immunopathology



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1014                         | LABORATORY TECHNIQUES AND PRINCIPLES 2 |                                        |                          |                                    |                   |
|----------------------------------|----------------------------------------|----------------------------------------|--------------------------|------------------------------------|-------------------|
| Semester                         | Code                                   | Name                                   | T+P                      | Credit                             | ECTS              |
| 2                                | LVS 1014                               | LABORATORY TECHNIQUES AND PRINCIPLES 2 | 2                        | 2                                  | 3                 |
| Education Type                   | Language                               | Course Level                           | Course Internship Status | Type of Course                     |                   |
| Secondary Education              | Turkish                                | Associate                              | No                       | Required                           |                   |
| Department/Program               | Precondition                           |                                        | Course Coordinator       | Instructor                         | Course Assistants |
| LABORATORY AND VETERINARY HEALTH |                                        |                                        | None                     | Asist Prof.Dr. MERİÇ LÜTFİ AVSEVER | None              |

The aim of lesson :

To teach basic laboratory techniques

Course Contents :

Laboratory basic knowledge



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2054 | VOLUNTEERING WORKS |                    |     |        |      |
|----------|--------------------|--------------------|-----|--------|------|
| Semester | Code               | Name               | T+P | Credit | ECTS |
| 4        | LVS 2054           | VOLUNTEERING WORKS | 3   | 3      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

| Department/Program               | Precondition | Course Coordinator | Instructor           | Course Assistants |
|----------------------------------|--------------|--------------------|----------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Instructor Musa ACAR | None              |

The aim of lesson :

Social Responsibility Project course, collaborating between arts and science disciplines, and collaborating on the solution of problems detected in the real life environment outside the campus; employing the field savings in coordination with others in solving these problems; using specialist equipment for a specific purpose in the context of the project, creating suitable compositions with other specialties; Outside the profession, it enhances civil society sensitivity and equips them with reflection skills to life.

Course Contents :

This course includes studies to help students become responsible individuals, to be sensitive to their social environment, human rights issues and social issues, to become active citizens for the development of civil society and participatory democracy.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2015 | HYGIENE AND SANITATION |                        |     |        |      |
|----------|------------------------|------------------------|-----|--------|------|
| Semester | Code                   | Name                   | T+P | Credit | ECTS |
| 3        | LVS 2015               | HYGIENE AND SANITATION | 2   | 2      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

| Department/Program               | Precondition | Course Coordinator | Instructor                 | Course Assistants |
|----------------------------------|--------------|--------------------|----------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Asist Prof.Dr. ERİNÇ GÜMÜŞ | None              |

The aim of lesson :

Applications of hygiene and sanitation

Course Contents :

Hygiene conditions from production to end product



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1003 | ANATOMY  |         |     |        |      |
|----------|----------|---------|-----|--------|------|
| Semester | Code     | Name    | T+P | Credit | ECTS |
| 1        | LVS 1003 | ANATOMY | 3   | 3      | 4    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                    | Course Assistants |
|----------------------------------|--------------|--------------------|-------------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Associate Prof.Dr. adil aksoy | None              |

The aim of lesson :

To introduce students to the normal body structure of domestic animals, basic anatomical terminology, and the morphological features of organ systems (skeletal, articular, muscular, digestive, respiratory, circulatory, nervous, etc.). The goal is to provide a solid foundation for subsequent clinical and laboratory courses.

Course Contents :

Introduction to the science of anatomy, basic anatomical concepts, and terminology. Comparative osteology (skeletal science), arthrology (joint science), and myology (muscle science) of domestic mammals. Topographic and systematic anatomy of the digestive, respiratory, circulatory, urinary, reproductive, and nervous systems, as well as sensory organs. Anatomical differences between major domestic species (dog, cat, cattle, sheep, horse, and poultry).



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| AİT 191  | ATATURK 'S PRINCIPLES AND REVOLUTION HISTORY I |                                                |     |        |      |
|----------|------------------------------------------------|------------------------------------------------|-----|--------|------|
| Semester | Code                                           | Name                                           | T+P | Credit | ECTS |
| 1        | AİT 191                                        | ATATURK 'S PRINCIPLES AND REVOLUTION HISTORY I | 2   | 2      | 2    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor              | Course Assistants |
|----------------------------------|--------------|--------------------|-------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Instructor İsmail ŞEKER | None              |

The aim of lesson :

The objective of the course is to give correct information about Turkish Independence War, the principles and the revolutions of Atatürk, Kemalist ideology, the history of Turkish Republic and to educate Turkish Youth as an inseparable whole with their country, nation and state on the principles and the Revolutions of Atatürk.

Course Contents :

Main concepts, the innovations of Ottoman Empire in 19. Century, World War I. Ve Turkish Independence War.



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1005 | PHYSIOLOGY |            |     |        |      |
|----------|------------|------------|-----|--------|------|
| Semester | Code       | Name       | T+P | Credit | ECTS |
| 1        | LVS 1005   | PHYSIOLOGY | 3   | 3      | 5    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                 | Course Assistants |
|----------------------------------|--------------|--------------------|----------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Erinc Gümüş | None              |

The aim of lesson :

Giving information about animal physiology, explanation of cell, blood, muscle, urinary, circulatory and nervous system and to give basic physiologic knowledge to students

Course Contents :

Giving information about animal physiology, explanation of cell, blood, muscle, urinary, circulatory and nervous system and to give basic physiologic knowledge to students



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1007 | HİSTOLOGY AND EMBRİYOLOGY |                           |     |        |      |
|----------|---------------------------|---------------------------|-----|--------|------|
| Semester | Code                      | Name                      | T+P | Credit | ECTS |
| 1        | LVS 1007                  | HİSTOLOGY AND EMBRİYOLOGY | 3   | 3      | 4    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                 | Course Assistants |
|----------------------------------|--------------|--------------------|----------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Erinc GÜMÜŞ | None              |

The aim of lesson :

Basic knowledge of histology and embryology

Course Contents :

Introduction to Histology, relationship with other disciplines, cell, tissues, protoplasm, asexual reproduction, sexual reproduction, and embriology



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2017 | POULTRY DISEASES |                  |     |        |      |
|----------|------------------|------------------|-----|--------|------|
| Semester | Code             | Name             | T+P | Credit | ECTS |
| 3        | LVS 2017         | POULTRY DISEASES | 2   | 2      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

| Department/Program               | Precondition | Course Coordinator | Instructor                    | Course Assistants |
|----------------------------------|--------------|--------------------|-------------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Associate Prof.Dr. Adil AKSOY | None              |

The aim of lesson :

To give the knowledge about bacterial, viral, neoplastics and parasitic diseases, mycotic diseases and mycotoxicosis, non-infectious fowl disease, toxins and toxication, nutrition related diseases, protection and eradication of diseases, sample sending to laboratory for diagnosis

Course Contents :

To give the knowledge about bacterial, viral, neoplastics and parasitic diseases, mycotic diseases and mycotoxicosis, non-infectious fowl disease, toxins and toxication, nutrition related diseases, protection and eradication of diseases, sample sending to laboratory for diagnosis



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1009 | LABORATORY TECHNIQUES AND PRINCIPLES 1 |                                        |     |        |      |
|----------|----------------------------------------|----------------------------------------|-----|--------|------|
| Semester | Code                                   | Name                                   | T+P | Credit | ECTS |
| 1        | LVS 1009                               | LABORATORY TECHNIQUES AND PRINCIPLES 1 | 3   | 3      | 4    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                | Course Assistants |
|----------------------------------|--------------|--------------------|---------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Asist Prof.Dr. Mustafa ÖZ | None              |

The aim of lesson :

To teach basic laboratory techniques

Course Contents :

Laboratory basic knowledge



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 1001 | MEDICAL BIOLOGY |                 |     |        |      |
|----------|-----------------|-----------------|-----|--------|------|
| Semester | Code            | Name            | T+P | Credit | ECTS |
| 1        | LVS 1001        | MEDICAL BIOLOGY | 3   | 3      | 5    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Required       |

| Department/Program               | Precondition | Course Coordinator | Instructor                        | Course Assistants |
|----------------------------------|--------------|--------------------|-----------------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH | None         |                    | Asist Prof.Dr. Burak Evren İnanan | None              |

The aim of lesson :

To understand and examine the definition of Biology, concept of science, taxonomical groups in organisms, structure of genetic material, microscopy.

Course Contents :

Liveliness, introduction to Biology, structure of a cell, genetic material, usage of microscope



**AKSARAY UNIVERSITY**  
**ESKİL VOCATIONAL SCHOOL**  
**LABORATORY AND VETERINARY HEALTH**

| LVS 2019 | ANIMAL BREEDING |                 |     |        |      |
|----------|-----------------|-----------------|-----|--------|------|
| Semester | Code            | Name            | T+P | Credit | ECTS |
| 3        | LVS 2019        | ANIMAL BREEDING | 2   | 2      | 3    |

| Education Type      | Language | Course Level | Course Internship Status | Type of Course |
|---------------------|----------|--------------|--------------------------|----------------|
| Secondary Education | Turkish  | Associate    | No                       | Elective       |

| Department/Program               | Precondition | Course Coordinator | Instructor                  | Course Assistants |
|----------------------------------|--------------|--------------------|-----------------------------|-------------------|
| LABORATORY AND VETERINARY HEALTH |              | None               | Asist Prof.Dr. Behlül Sevim | None              |

The aim of lesson :

The aim is that increase the profitability of livestock enterprises and determine the genotype of the animal that will contribute to the country's economy

Course Contents :

The purpose of animal breeding, Phenotypic variance, Heritability , Calculation of heritability, Selection, The degree of repetition, Calculation of the degree of repetition, Selection of individuals according to their phenotypic , Relative to the values of phenotypic selection , Progeny-Testing, Progeny-Testing the way, Genetic Correlations, Indirect selection, The benefits of cross breeding animal breeding, Cross breeding methods