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**Department of Animal Resoure.**

**College of Agriculture.**

**University of Salahaddin-Erbil.**

**Subject: Animal Fiber.**

**Course Book – (Year 4)**

**Lecturer's name: SAMIR SADUN SARTIP**

**Academic Year: 2022/2023**

**Course Book**

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| **1. Course name** | **Animal Fiber** | |
| **2. Lecturer in charge** | **Mr. SAMIR SADUN SARTIP** | |
| **3. Department/ College** | **Animal Resource / Agriculture** | |
| **4. Contact** | **e-mail: samir.sartip@su.edu.krd**  **Tel: 07504092951** | |
| **5. Time (in hours) per week** | **Practical: 3** | |
| **6. Office hours** | **6 weekly** | |
| **7. Course code** |  | |
| **8. Teacher's academic profile** | **Bachelor in Animal Science-Salahaddin University 2008-2009.**  **MSc.Livestock Production Science –Essex Unversity-UK- 2013**  **Academic Staff in Animal Resource department since 2014** | |
| **9. Keywords** | Synthetic & natural fibres, goat, Sheep, wool and hair traits, Cashmere, Mohair, growth, shearing. | |
| **Course Overview:**  The producer of synthetic fibers can easily outdo the woolgrower in many traits except the two most important traits, which are a combination of unusual mechanical properties coupled with the ability to absorb large quantities of moisture, due to the unique microfibril/matrix composition of animal fibers. It is perhaps not surprising, as human wear animal fibers, especially wool offers outstanding comfort properties.  The production of animal fiber is of economic importance, especially fine fibers (e.g. Cashmere). Therefore, part of the income of the grower depends on the quantity and quality of fiber produced. In addition, our country is suitable for breeding farm animals such as sheep and goats, especially as there are Maraz goats, which utilize their fleece in the manufacture of Kurdish national costume. Therefore, the importance of the study of animal fiber lies by increasing the production. Thus means increasing the income of grower and consequently their subsequent effects on national income.  Moreover, it is a guide for graduate who is looking for specialized knowledge and on the light of the needs of labor market in the area for ​​improving animal fiber production quantitatively & qualitatively, thus will contribute to the completion of the steps aim to achieve further progress in the field of animal resources in the country. | | |
| **11. Course objective:**  1- To identify the animal fiber position from the rest of textile fibers.  2- To know the economic importance of animal fibers.  3- To know the biology of fleece; the development of follicles and their impact on the production of animal fiber.  4- Diagnosis compositional differences between animal and synthetic fibers.  5- To study the physical characteristics of animal fibers and factors affecting them.  6- To realize the technological importance of animal fibers and characteristics of their end products. | | |
| **12. Student's obligation**  Student shall learn most of the test done on the wool and learn most important traits and the role of wool in the manufacturing processes, weekly the students must done quiz and writing report about the last lecture with two monthly examination. | | |
| **13. Forms of teaching**  Depending mainly on white board and data show with giving him the most important out hand of new subject from research papers and most important films about the lecture. | | |
| **14. Assessment scheme**  Breakdown of overall assessment and examination the 35% of makes will be on the quiz, reports and daily activities and the reminders on the monthly exams.‌ | | |
| **11. Course objective:**  1- To identify the animal fiber properties and to know the economic importance of animal fibers and it is role in daily using also to know the biology of fleece from the development of follicles and their impact on the production of animal fiber. Diagnosis compositional differences between animal and synthetic fibers. Learning the physical characteristics of animal fibers and factors affecting them and to realize the technological importance of animal fibers and characteristics of their end products. | | |
| 16. **Course Reading List and References‌:**  1- 1- Onions W.J.(1962). Wool. An Introduction to its Properties, Varieties,  Uses and Production. Interscience Publishers. New York.  2- Al-Oramary, R.A.S.(2002). A study on fleece characterization of  Hamadani sheep in Erbil plain. M.Sc. Thesis, Agric. College, Univ. of  Salahaddin-Erbil.  3- Sandra G. Solaiman (2010). Goat Science and Production. Blackwell  Publishing. USA | | |
| **17. The Topics:** | | **Lecturer's name** |
| **Syllabus Course Description**   1. Fleece Biology 2. Fiber Structure 3. Practical session 4. The Coat 5. Wool Metrology 6. Field Visit 7. Wool Impurities 8. Physical impurities removal 9. Main non-fleece wool types 10. Wool Stain 11. Wool Storage 12. Packing Processed Wool 13. Wool Marketing 14. Wool Transporting conditions 15. Course revise | | Samir sadun sartip  weekly: (3 hrs) |
| **18. Practical Topics (If there is any)** | |  |
|  | | Lecturer's name  SAMIR SADUN SARTIP |
| 19. **Examinations**:  **Monthly exam degree (2 Exams) = 30%**  **Degree of daily exam = 5%** | | |
| **20. Extra notes:** | | |
| **21. Peer review:** | | |