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**Department of field crops and medicinal plants**

**College of Agriculture engineering science**

**University of Salahalddin/ Erbil**

**Subject: Agriculture engineering practices**

**Course Book – *3rd Year*: Agriculture engineering practices (practical)**

**Lecturer's name MSc. Bnar Sardar Mustafa**

**Academic Year: 2022/2023**

**Course Book**

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| **1. Course name** | **Agriculture engineering practices** |
| **2. Lecturer in charge** | **Bnar sardar mustafa** |
| **3. Department/ College** | **Field crops/ Agriculture engineering science** |
| **4. Contact** | **e-mail: bnar.mustafa@su.edu.krd** |
| **5. Time (in hours) per week**  | **For example Theory: 3** **Practical**  |
| **6. Office hours** | Monday 9-1:30 Or Tuesday 10:30-12:30  |
| **7. Course code** |  |
| **8. Teacher's academic profile**  | **MSc. forage crops-field crops** |
| **9. Keywords** | **Machine ,agriculture equipment, Farming system** |
| **10. Course overview:** |
| **11. Course objective:** the important of the science connection with farm , machine and enhance the agriculture outcome of crops in better way.  |
| **12. Student's obligation**1. Students reign an commitment to come on time and remain in the classroom for the duration of scheduled classes.
2. Nothingness speaks students with each other during lecture.
3. All devices must be turned off.
4. When teacher ask question, Students will be to raise your hand before answer his question.
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| **13. Forms of teaching**First I remember students about previous lecture, and then I start new lecture. At the end of the lecture give a note for the next lecture. During this process I am use presentation and whiteboard. |
| **14. Assessment scheme*****Practical 40 %*** |
| **15. Student learning outcome:**1. Students will be learn to concept of Complex analysis.
2. Students will be learn to find powers and roots of complex numbers..
3. Students will be learn to find limits and integration of complex functions.
4. Students will be learn the concept of analytic functions.
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| **16. Course Reading List and References‌:*** Anandajayasekeram, P., Van Rooyen, CJ., and Liebenberg, F., (2004). Agricultural Project Planning and Analysis: A Sourcebook Second edition. UP University.
* Barger, E.L., Carleton, W.M., Mckilben, E.G., and Bainer, Roy., (1952). Tractor and their Power Units. Soil Science, vol. 73, issue 5, p.418.
* Biggs, G., and Tripathi, N., (2003). Agriculture Mechanization Committee of Bangladesh United nation. Asian J. Agric. Eng. Mac., 5(1): 146 –152.
* Chandrasekaran, B., Annadurai, K., and Somasundaram, E., (2010). A Text Book of Agronomy. Copyright © 2010, New Age International (P) Ltd., Publishers Published by New Age International (P) Ltd., Publishers.
* https://www.thespruce.com/small-farm-4127721.
* Imran, A., Omair, F., and Wajiha, A., (2017). Impact of Agricultural Engineering Practices on Farm Management: A Case Study of Gharo Model Farm. PSM Biological Research., 2(1): 40-45.
* Jagdishwar Sahay (2014). Elements of Agricultural Engineering. Formerly, Prof. & Head Farm Power &Reniewable Energy Dept., R.A.U, PUSA, Samastipur5th Edition, 2014 ISBN 81-8014-044-X.
* Kepner, R.A., Bainer, Roy., and Bergar, E.L., (1978). Principles of Farm Machinery. Third Edition.
* Segun R. Bello (2012). Agricultural Engineering Principles & Practice. Federal College of Agriculture Ishiagu, 480001 Nigeria, Printed by Createspace US.
* Ojha, T.P., and Michael, A.M., (2017). Principles of Agricultural Engineering Volume-1 (Farm Power, farm Machinery, Farm Buildings, Post Harvest-Technology).
* Water Management (Agro. 201 Lecture Notes), ANGRAU.
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| **17. The Topics:** | **Lecturer's name** |
| Week 1:Week 2: Week 3Week 4Week 5 Week 6 Week 7Week 8 | **Agricultural Engineering Development.**Farm MechanizationSeed Treatment**First exam****Seasons and Systems of Farming**Irrigation and Water ManagementNutrient ManagementSecond exam |
| **18. Practical Topics (If there is any)** |  |
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| **19. Examinations:**Questions in the examination will be arranged the matching mode by way of the examples and exercises that I give delivered in the lecture notes.Sometimes will be have extra mark in examination for worthy students. |
| **20. Extra notes:** |
| **21. Peer review**   |