

# Academic Curriculum Vitae



## Personal Information:

Full Name: **Bahar Jalal Mahmood**  
Academic Title: **Assistant Professor**  
Email: (university email) : [bahar.mahmmod@su.edu.krd](mailto:bahar.mahmmod@su.edu.krd)  
Mobile: 07504672974



## Education:

- **BSc: Field crops Department /Collage of Agricultural /Salahaddin University.**
- **MSc: Crop production / Collage of Agricultural /Salahaddin University-Erbil**

## Employment:

- **1987: Suleimani cigarette factory - Assist. Agricultural Engineer.**
- Member for limiting and selecting the committees for tobacco quality.**
- Supervising manipulating tobacco before manufacturing cigarettes.**
- **Supervising the production of tobacco fermentation.**
- **Responsible on quality control of tobacco and cigarettes.**
- 1991 - Erbil cigarettes manufacture. Assist. Agriculture Engineer/ laboratory of the factory.**
- 1994- Salahaddin University /College of Science / Biology Department.**
- Assist. lectures in College of Science /Biology department**
- 2000 - College of Agriculture / Plant production Department.**
- Assist. lectures in College of Agriculture /Plant production department.**
- 2006 – Till now / College of Agriculture /Field crop Department.**
- Lecture in Agriculture College/Field crop department.**
- **Assist. Professor in College of Agriculture /Field crop department**

## Qualifications

- **Lecturing, Tobacco science (production & technology), Experimental design and analysis, Principal of Field crop, Plant nutrition, Statistics. General botany, Plant production, Computer application in crop production, Academic skills, Crop management, Technology of oil and sugar crops**
- Advance crop production, Advance industrial crops, Advance Data Analysis, Advance Medical plant production, Advance technology of oil crops**

- IT qualifications
- **Computer (Word program). Center for information & communication technology Salahaddin University**
- **Computer. (Power point). Center for information & communication technology.**
- **Computer. (Excel program) . center for information & communication technology.**
- **Computer. (Power point 2010 and Camtasia Studio 7). Center for information & communication technology.**
- **Computer. (Course of Internet) Center for information & communication technology.**
- **Computer. (Online documentary) Center for information & communication technology.**
- **English training course in language center.**
- **Data analysis training course with SPSS program.**  
<https://www.facebook.com/123STAT/posts/pfbid023qspEx4eDDMNucBt9TL629hFovwaqO9BBbwdu3sc4KLH8MdZXE2pWvm3c4A9xatNl>
- **Data analysis in Mega mind plus academy.**
- **SAS training in Agricultural Engineering Sciences.**

## Teaching experience:

### Teaching courses stating undergraduate

1. Tobacco science (production & technology)
2. Experimental design and analysis.
3. Principal of Field crop.
4. Plant nutrition.
5. Principal of Statistics.
6. General botany.
7. Plant production.
8. Computer application in crop production.
9. Academic skills.
10. Crop management.

### Teaching courses stating post-harvest

1. Technology of industrial crops.
2. Advance crop production.
3. Advance oil and sugar crops.
4. Advance Data Analysis.
5. Advance Medical plant production.
6. Advance technology of oil crops

## Research and publications

1. Mahmood, B; Shafiq, J and Fantel, A ,B (1988).The effect of planting time and plant spacing on some physical and chemical characteristics of flue- cured tobacco in northern Iraq. Zanco . Vol 6 .NO 4 .
2. Abdul-Amer , M; Esmail, A.O and Mahmood, B,J (1989) The effect of irrigation water quality on the behavior of ions in the soil. Iraqi j . Agric . Sci.4 .

3. Mahmood , B ,J (2004) The rule of phosphorus and molybdenum and their interaction on the yield and quality of *Vicia faba*. Zanco. Vol 16 No 4 .
4. Mahmood, B , J and Berzenjy , D (2004) The rule of Fe- EDTA on yield and some chemical characteristics of different priming of Virginia cocker 347 tobacco variety. Zanco . Vol. 16. No 5.
5. Mahmood B, J (2008) The rule of rates and types of potassium fertilizer in wheat yield variety Accad (65). Zanco.Vol. 20. No 4 .
6. Berzenjy , D and Mahmood ,B, J (2005) The artificial fermentation for Iraqi oriental tobacco and its effect on the quality
7. Mahmood , B ,J (2008)The effect of Different Levels of Boron on Growth and Yield of Some Wheat Cultivars. (accepted in Zanco)
8. Mahmood,B,J ; Abdo ,S and Wally (2011) The effect of different levels phosphor and potash fertilizer on Yield and Its Component of (*Cotton Gossypium sp*). Journal of Tikrit University for agriculture science.Vol.11 .No 2..
9. Effect of iron on growth and yield of two wheat cultivars. Journal of Duhok University. Vol.15.No 1.2012. 1st scientific agriculture conference. Duhok University.
10. Mahmood, B, J ; Sarkess,N,O and Wally (2013.) The effect of phosphorus and potassium on physical properties of Cotton fibers var Lachata . Journal of Tikrit University for agriculture science.Vol.13 . No 1.
11. Esmail ,A,O;Yasin,H,S and Mahmood,B,J (2017) Effect of levels of phosphorus and iron on growth. Yield and quality of flax. IOSR Journal of Agriculture and Veterinary Science, Vol. 7. Issue 5(version 11).
12. Mahmood,B,J and Sarkess ,N (2014).Effect of foliar application of heavy metals (iron and zinc) on growth, morphological characteristics, yield and quality of flax plant (*Linum usitassimum L*). International Journal of Agriculture Science and Natural Resources. Vol .1 , No.4
13. Mahmood, B ,J : Namam,B,I and Rezan,A,Q (2016). Response of some oat (*Avena sativa L.*) cultivars to different clipping intervals and its effect on growth, yield and quality.2nd Scientific conference. Duhok University.
14. Hashm, J, J and Bahar, J,M(2016) . Effect of sowing dates, rates and their interactions on yield and quality of rapeseed (*brassica napus L*) Genotypes. 2nd Scientific conference. Duhok University.
15. Najmaddin, Ch and Bahar, J, M. (2016). Anatomically and Palynologically Studies of Some *Carthamus tinctorius* Genotypes. International Journal of Biological Sciences (IJBS) ISSN: 2313-3740 (Online). <http://www.dnetrw.com>.Vol. 03, No. 01, P. 1-13.
16. Esmail ,A,O: Haifa, S,A and Bahar ,J,M(2017).Effect of levels of phosphorous and iron on growth ,yield and quality of flax (*Linum usitassimum L*) Kirkuk university Journal for agricultural science.
17. Esmail, A ,O: Muslim ,R, A and Bahar ,J, M(2018)Effect of different levels of organic fertilizer and phosphorous on yield ,quality and nutrient balance in corn .
18. Muhammad, K, K and Bahar, J, M (2018) Impact of sulfur foliar fertilization on some growth characteristics, yield and quality of two flax cultivars.

19. Sarkess .N.O and Bahar.J,M (2018). Effect of Plant Density in Yield and Quality of Two Flax Cultivars (*Linum usitatissimum L.*) Journal of Tikrit University for agriculture science.Vol.18 .No 3..
20. Abdullah,A,O :S,T,Saleh and B,J,Mahmood (2019) Some Characters of Different Genotypes of Brassica napus in Erbil City-Kurdistan Region-Iraq. ZANCO Journal of Pure and Applied Sciences .<https://zancojournals.su.edu.krd/index.php/JPAS> ISSN (print ):2218-0230, ISSN (online): 2412-3986, DOI: <http://dx.doi.org/10.21271/zipas>.
21. Abdulla, O. O; Bahar J. M and Sirwan T. S . (2019). The study of growth, yield and quality for twelve of brassica genotypes using correlation, path and cluster analysis. Mesopotamia Journal of Agriculture Vol. (47), Supplement III Proceedings of the 3rd International Agri. Conference, College of Agri. and Forestry, Univ. of Mosul and College of Agri. Engineering Sciences, Univ. of Duhok.
22. Mahmood. J: L. Q. Muhammad :K. Kamal A. Hamedi A. Ahmad(2020) . Cluster analysis among nine cotton genotypes. Iraqi Journal of Agricultural Sciences –51(2):592-599.
23. Dilan R. Hadi, Tareeq H. Kreem, Bahar J. Mahmood (2020) Effect of Foliar Application of Some Micronutrients at Two Growth Stages on Growth, Yield and Yield Components of Two Bread Wheat (*Triticum aestivum L.*) Varieties. ZJPAS (2020), 32(5); 186-195.
24. B. J. Mahmood L. Q. Muhammad K. Kamal A. Hamedi A. Ahmad (2020). Cluster analysis among nine cotton genotypes. Iraqi Journal of Agricultural Sciences –2020:51(2):592-599 M
25. Abdul-Jabbar, A : Bahar,J,M and Sirwan,T,S (2020). A GC-MS characteristic Analysis of Hybrirock and Pactol Seeds Harvested in Erbil/Iraq. Al-Mustansiriyah Journal of Science, ISSN:2521-3520 (online) Volume 31, Issue 3, DOI: <http://doi.org/10.23851/mjs.v31i3.860> 65 .
26. Abdul-Jabbar, A; Venos S. Abdullah and Bahar, J, M, (2020). Differential phytochemical constituents of Brassica napus L. Cultivars (Reandy, Sultan and Heros) as a natural sources of bio-fuels Mesopotamia J. of Agric. Vol. (48) No. (3) .
- 27 Hashim. J.J and Bahar,J,M(2021) . Effect of Sowing Dates, Seeding Rates on Growth, Yield and its Component of Some Rapeseed (*Brassica nupus L.*) Genotypes. DOI: <http://dx.doi.org/10.21271/ZJPAS.33.s1.17> ZJPAS (2021) , 33(s1);160-174 .
- 28 Abdul Karim. L.A : B.J.Mahmood and A.A.Abdulla (2020). Succession Effect of Wheat Cultivation After Some Crops on Mycorrhiza Infection, Yield, and Quality of Wheat. DOI: <http://dx.doi.org/10.21271/ZJPAS.32.5.16> . ZJPAS 32(5);167-173 .
- 29 Mahmood. B J. R F. Salih S I. Hamad and Ch. A. Fakhir (2021). Interaction Effect of Different Concentrations of Nano-Fertilizer (NPK) and Sources of Charcoal on Growth and Yield Parameters of Faba bean (*Vicia faba L.*) 2<sup>nd</sup> confrance (Salahaddin and Anbar University).
- 30 Baghawan A. Omer and Bahar. J. Mahmood (2021). Response of two flax cultivars to chemical and Nano-fertilizers and their influence on growth and yield parameters 1
- 31 Z. S. Mohammed and B. J. Mahmood (2021) Influence of cultivars, plant geometry, humic acid and their interactions on growth and yield of Niger crop, Journal of Pure and Applied Sciences, 142(4)28.155.
- 32 Bapir. K. and. Mahmood. B. Response of Two Sunflower (*Helianthus annuus L.*) Genotypes to Foliar Application of Different Nano Fertilizers. ZANCO Journal of Pure and Applied Sciences. 34 (5): 141-153 (2022).

- 33 Mahmood.B. J and Muhammad. K. K (2022). Foliar application effect of gibberellic acid on growth, yield components and some qualitative characteristics of linseed (*Linum usitatissimum* L.). ZANCO Journal of Pure and Applied Sciences 34 (6): 69-78.
- 34 Muhammadamin S, A and Mahmood.B. J (2023) Influence of combination between fertilizer treatments and nipping on growth, yield and quality of sesame (*Sesamum indicum* L.) ZANCO Journal of Pure and Applied Sciences 35 (1);38-55.
- 35 Ahmed. L. Q; Mahmood. B. J and Muhammad. K.K (2023). Identifying lint properties of some cotton genotypes (*Gossipum hirsutum* L.) using different statistical models. ZANCO Journal of Pure and Applied Sciences. ZJPAS (2023) , 35(3);171-179.
- 36 Omer, B , A. and Mahmood, B. J. (2024) Impact of Nano and mineral fertilizers on quality and medical properties of flax oil. Iraqi Journal of Agriculture Science. Accepted for publishing
- 37 Mahmood, B , J ; Mustafa, B,S ; Pirdwad, K, M; Fahad, M,S ; Yousf, W,S and Ali ,M,B (2023)Interaction effect of rice biochar and phosphorous fertilizer on growth, yield and yield component of Faba bean (*Vicia faba* L) . IOP Conf. Series: Earth and Environmental Science 1252 , 012044
- 38 Hashim , J ,J ;Abdulla ,A,M and Mahmood, B,J (2023) evaluation of some quality Characteristics of flaxseed in response to foliar application of zinc and manganese. *Mesopotamia Journal ofAgriculture, Vol. 51, No. 3, (56-66).*
- 39 Fathulla ,Ch, N and Mahmood ,B, J(2023) Anatomical Study of Petiole and Leaf Parts of *Gossipum Hirsutum* L. in Erbil / Iraq. Al-Nahrain Journal of Science. ANJS, Vol.26(3), pp. 24-33.
- 40 Mahmood, B, J; Shakir, B, Sh; Sabir, D,A; Abdulqadir ,Sh, H and Hama ,Sh,J (2024) Response of two bread wheat (*Triticum aestivum* L.) varieties to foliar application of Nano fertilizers at two growing stages and its effect on their qualitative characteristics. *Kirkuk University Journal for Agricultural Sciences, Vol. 15, No. 1, (47-60).*
- 41 Muhammed, Z,S and Mahmood ,B,J (2024) Influence of row density and foliar humic acid application on growth parameters, yield and yield components of Niger (*Guizotia abyssinica* Cass.) in Erbil. Zanco Journal of Pure and Applied Sciences ( acceptance for publish)
- 42 Omer, B , A. and Mahmood, B. J. (2024) Impact of Nano and mineral fertilizers on quality and medical properties of flax oil. Iraqi Journal of Agriculture Science. Accepted for publishing in vol 55 issue 4.

## Conferences and courses attended

1. Kurdistan Agricultural Engineers Syndicate Conference 2011
2. 1<sup>st</sup> Scientific agriculture conference. Duhok University. 2012
3. Erbil, Iraqi Agricultural College deans' conference 2013
4. 2<sup>nd</sup> Scientific conference. Duhok University 2016
5. 2<sup>nd</sup> International Genocide Conference 2017.
6. 4<sup>th</sup> International Conference on Applied Science, Energy and Environment (ICASEE-2017).
7. III. International Scientific Conference for Agricultural Sciences, Kirkuk University

**8. International Agri. Conference, College of Agri. and Forestry, Univ. of Mosul and College of Agri. Engineering Sciences, Univ. of Duhok 2-3 October Mesopotamia Journal of Agriculture Vol. (47).**

**9. 1<sup>st</sup> Conference ICAS, 2019: First international conference for agriscience 2019.**

**10. 2<sup>nd</sup> Conference: International Collaborative of Modern Agricultural technology 2021.**

**11. International Collaborative Conference of modern Agricultural Technologies ( ICCMAT) 2023.**

*12. attendance in 2<sup>nd</sup> Scientific conference. Duhok University(Poster).*

13. Conference on student for academic skill for first year students.

14. 3<sup>rd</sup> Conference on student research projects and idea grant.

15. Poster presentation in academic skill.

16. Poster presentation in research project for 4<sup>th</sup> year students.

## **Funding and academic awards**

- "I am honored to have been awarded numerous accolades by esteemed figures such as the Minister of Higher Education, the Dean of the College of Agriculture, and the President of Salahaddin University.

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## **Professional memberships**

1. Kurdistan. Ag. Engineers union.
2. Kurdistan. teachers' union.
3. Zanco. Cultural center
4. Dwobz organization for environment protection

## **Professional Social Network Accounts:**

-<https://www.researchgate.net/profile/Bahar-Mahmood>.

- <https://www.linkedin.com/in/bahar-jalal-012507b2/>

-<https://scholar.google.com/citations?hl=en&authuser=1&user=2ThjwEwAAAAJ>

### **Cover letter**

I am Bahar Jalal Mahmood Ali, an Assistant Professor at Salahaddin University- Erbil , where I have dedicated myself to assisting and supervising students in their Bachelor's and Master's degree research endeavors. Throughout this academic year, my teaching responsibilities have been diverse and specialized.

In the first semester, I instructed second-year students in the Soil and Water Department on Principles of Plant Production. In the subsequent semester, I taught third-year students in the Field Crops and Medical Plants Department the intricacies of Experimental Design and Analysis. Furthermore, I have conducted courses in Advanced Industrial Crops for Diploma students and Advanced technology of Oil

Crops for MSc students in the Field Crops and Medical Plants Department during their second attempts. Currently, I am engaged in teaching Advanced Oil Crops.

In addition to teaching, I have been actively involved in supervising research projects for Bachelor students within the Field Crops and Medical Plants departments at Salahaddin University, Erbil. Moreover, I am currently supervising one MSc student in her thesis work.

Beyond classroom instruction and supervision, I provide valuable assistance to students in conducting statistical analyses for their research projects. This includes helping them create graphs, tables, and conducting correlation analyses to effectively present their data.