

Academic Curriculum Vitae



Personal Information:

Full Name: **Mowfaq Jalil Ahmed**
Academic Title: **Assistant Professor**
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Education:

- B.Sc. in Physics- University of Salahaddin-Erbil/College of Education /physics Department 1986.
- M.Sc. in Physics- University of Salahaddin-Erbil/College of Science /physics Department 1991.
- Ph.D. in Physics- University of Salahaddin-Erbil/College of Science /physics Department 2007

Employment:

From- to	Employ	Department/College	University
2018-til now	A.prof	physics/ education	Salahaddin
2003-2018	Lecturer	physics/ education	Salahaddin
2007-2010	Laboratory manager	Ministry of higher education	
1991-2003	Assistant Lecturer	physics/ education	Salahaddin
1991-til now	Manager of Electronic Workshop in University of Salahaddin	physics/ education	Salahaddin
1986-1988	Assistant physicist	physics/ education	Salahaddin

Qualifications

- **Teaching qualifications:** solid state physics, theoretical mechanics, experimental physics

- **Computer skills** **MATLAB^R , MS OFFICE , AutoCAD**
- **Language skills** Arabic (native speaker)
Kurdish (good)
English (good)

Teaching experience:

From-to	Subject	Stage/College	University
1991-1993	Electromagnetic theory	4 th year physics students/education	Salahaddin
1991-2023	Practical electronics	3 rd year physics students /education	Salahaddin
1993-1996	Thermodynamics	3 rd year physics students /education	Salahaddin
1996-1997	Electronics	3 rd year physics students/education	Salahaddin
2008-2009	Electronics	3 rd year physics students/science	Salahaddin
2010-2023	Solid state physics & theoretical mechanics	4 th & 3 rd year physics students/ education	Salahaddin
2023-2024	Numerical methods using MATLAB	MS.c students	Salahaddin
2023-2024	Analytical Mechanics	Higher diploma student	Salahaddin

Research and publications

1. Study Of Electrical.Thermoelectrical and themomagnetic Properties of The Mixed Semiconducting Compound $Cu Ge_{2+x} P_3$. M.Sc. Thesis (1991)
2. Optical Band Gap and Electrical Resistivity of Sprayed ZnCdS Films, Zanko Journal of pure and Applied Sciences, 13, (2001)
3. Optical Properties of Vacuum Evaporated CdSe:Ag Thin Film. Zanko Journal of pure and Applied Sciences, 16, (2004)
4. Optical Constants of the System CdSTe; Ag: Cu and Au Thin Films , Zanko Journal of pure and Applied Sciences, 18, (2006)
5. Theoretical Investigation of Electron Transport Properties in Silicon using Boltzmann transport Equation, PhD thesis , (2007)
6. Temperature dependence of electron impact ionization coefficient in bulk silicon, *AIP Conference Proceedings* 1888, 020034 (2017)

<https://doi.org/10.1063/1.5004311>

7. Design and Simulation of Microstrip Antenna Array Operating at S-band for Wireless Communication System

<https://ijeces.ferit.hr/index.php/ijeces/article/view/2145>

8. EDLC Performance of Plasticized NBG Electrolyte Inserted with Ba(NO₃)₂ Salt: Impedance, Electrical and Electrochemical Properties

<https://www.sciencedirect.com/science/article/abs/pii/S0013468623013063?via%3Dihub>

9. Magnesium Ion Conducting Biopolymer Blend-Based Electrolyte for Energy Storage Application: Electrochemical Characteristics

<https://www.sciencedirect.com/science/article/abs/pii/S001346862300837X?via%3Dihub>

Conferences and courses attended

AIP Conference Proceedings 1888, 020034 (2017)

Funding and academic awards

Salahaddin university funding on “ Dependence of Emission Spectrum of RGB LEDs on Ambient Temperatures and Driving Current” 4th year student, undergraduate project (2022)

Professional memberships

- Kurdistan Physics Syndicate /Erbil /Iraq
- Kurdistan Teacher Syndicate /Erbil/Iraq

Professional Social Network Accounts:

<https://scholar.google.com/citations?hl=en&user=pL723M0AAAAJ>

<https://www.researchgate.net/profile/Mowfaq-Ahmed>

<https://orcid.org/0000-0003-4267-2289>

<https://www.linkedin.com/in/mowfaq-jalil-ahmed-396266118/>