

Academic Curriculum Vitae



Personal Information:

Full Name: Dr. AHMED SAMIR ANWAR ALEMDAR
Academic Title: Assistant Professor
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Education:

- University & College: Salahaddin University – Erbil (SUE), College of Engineering, Mechanical & Mechatronics Engg. Dept.
 - ✓ Ph.D. P.E. Material Science & Welding Metallurgy,
 - ✓ Graduation Date: 25th January 2024.
 - ✓ Grade: Awarded a Ph.D. degree grade Excellent.
- University & College: University of Gaziantep – Faculty of Engineering – Construction and Manufacturing Engineering Department.
 - ✓ M.Sc. P. E. Material Science & Welding Metallurgy,
 - ✓ Graduation Date: 18th July 2013.
 - ✓ Grade: Awarded an MSc degree grade Excellent.
- University & College: Salahaddin University – Erbil (SUE) – College of Engineering – Mechanical Engineering Department.
 - ✓ Graduation Date: 2nd July 2008.
 - ✓ Grade average mark: BSc (77%) for the four academic years.
 - ✓ Rank Number: Rank (1) in a class of (102) students.

Employment:

- Salahaddin University – Erbil (SUE), College of Engineering, Mechanical Engineering Department.
Position; Consultant Engineer – Assistant Professor, Teaching Material Science to sophomore students and Computer (AutoCAD – Design) Laboratory.
 - ✓ Period: 18th February 2024 – Present as an Assistant Professor – Consultant Engineer at E.C.B.
 - ✓ Period: 5th December 2017 – 18th February 2024 as a Lecturer – Consultant Engineer at E.C.B.
 - ✓ Period: 30th March 2014 – 5th December 2017, as an Assistant Lecturer – Practitioner Engineer at E.C.B.
 - ✓ Period: 26th March 2009 – 30th March 2014 as a Research Assistant – Engineer.

Qualifications

- Teaching qualification:
 - ✓ Welding Technologies (Higher Education; Higher Diploma students can select the subject).
 - It's 3 h of theoretical sessions per week student who chooses this subject will collect 5 credits, usually open and accessible in the spring semester.
 - ✓ Welding Metallurgy (Elective Subject; junior and senior students can select the subject).
 - It's 8 h of theoretical sessions per week followed by 2 h practical tests at the Laboratory student who chooses this subject will collect 5 credits, usually open and accessible in the spring semester.
 - ✓ Material Science & Technology; (Core Subject; Sophomore students can select this subject).
 - It's 4 h of theoretical sessions per week followed by 4 h of lab practical subject per week; students will collect 5 credits; flexible, usually open, and accessible in fall and spring semesters.
 - ✓ Research Methods and Academic Ethics (Core Subject; senior students can select the subject).
 - It's 6 h of theoretical sessions per week, and the student who chooses this subject will collect 3 credits, usually open and accessible in the fall semester.
- Languages:
 - ✓ Kurdish: Bilingual proficiency.
 - ✓ Turkish: Bilingual proficiency.
 - ✓ English: Full professional proficiency. **TOEFL iBT** score **104** out of 120.
 - ✓ Arabic: Full professional proficiency.
 - ✓ German: Limited working Proficiency.
- Professional qualification
Assistant Professor & Consultant Engineer at SUE. Material expert who specializes in Material Science & Welding Metallurgy. With over 20 years of hands-on experience in material testing & calibration of testing equipment, he has developed a profound expertise in destructive & non-destructive testing methodologies, adhering to AWS, ASME, API, NACE, ASTM, & ISO standards. His dedication to exploring new technologies & rigorous work ethic have distinguished him as a top performer, evidenced by his graduating first with a B.Sc. in Mechanical Engineering from the Engineering College, Salahaddin University – Erbil (SUE). He further excelled in his academic pursuits, earning an M.Sc. & a Ph.D. in Material Science & Welding Metallurgy with distinction.

- Professional courses attended
 - **Course 1:** ORTMANN GmbH HAMBURG - GERMANY – Test & Measure on SPECTRO Measurement Machines in IRAQ - Erbil Governorate.
 - Period; 2nd – 8th July 2009 training line.
 - www.spectro.com www.test-and-measure.com
 - **Course 2:** TU BERAKADEMIE FREIBERG – GERMANY – ANSYS workbench, ANSYS Fluent, and ANSYS Gambit in Germany – Freiberg.
 - Period; 1st November 2009 – 30th February 2010.
 - www.hgum.tu-freiberg.de
 - **Course 3:** TOEFL PREPARATION – AMIDEAST CENTER U.S.A. Erbil Governorate.
 - Period; May 16 to June 24, 2010.
 - e-mail: cludlow@amideast.org www.amideast.org
 - **Course 4:** ICDL Computer Training Course – Salahaddin University – Erbil (SUE).
 - Period; 10th April – 10th May 2010.
 - www.su.edu.krd
 - **Course 5:** Teaching Methods – Salahaddin University – Erbil (SUE)
 - Period; 27th January – 10th March 2014.
 - www.su.edu.krd
 - **Course 6:** LG Electronics – HVAC Multi-V System – Dubai.
 - Period; 16th April – 18th April 2018.
 - www.lg.com
 - **Course 7:** Language Center – Salahaddin University – Erbil (SUE)
 - Period; 8th November – 23rd December 2021.
 - www.su.edu.krd
 - **Course 8:** TU BERAKADEMIE FREIBERG – GERMANY – Opal -Additive Manufacturing 3D Printing in Germany – Freiberg.
 - Period; 21st February 2021 – 30th October 2021.
 - www.hgum.tu-freiberg.de
 - **Course 9:** TU BERAKADEMIE FREIBERG – GERMANY – Additive Manufacturing 3D Scanning in Germany – Freiberg.
 - Period; 11th December – 15th December 2023.
 - www.hgum.tu-freiberg.de

Teaching experience:

- Since 2009, my teaching experience at the university level has been an enriching journey that began with research assistance and eventually led to my obtaining a Ph.D. Throughout this period, I have been fortunate to engage with students, collaborate with esteemed faculty members, and contribute to academia.

Initially, I embarked on my teaching career as a research assistant while pursuing my master's degree. This role allowed me to work closely with faculty members on their research projects, assisting with data collection, analysis, and literature reviews. This experience gave me a solid foundation in research methodologies and cultivated my analytical and critical thinking skills. After completing my master's degree, I pursued a Ph.D., during which I continued to refine my teaching skills. As a doctoral student, I was privileged to design and deliver my undergraduate courses, focusing on specialized topics within my field of study. This experience allowed me to exercise autonomy and creativity in curriculum development, instructional design, and assessment strategies. I created engaging learning materials, facilitated class discussions, and provided constructive feedback to enhance student learning outcomes.

My teaching experience at the university since 2009 has been a transformative and gratifying journey. It has allowed me to merge my passion for research with my commitment to education, nurturing the next generation of scholars and contributing to advancing knowledge in my field. I am excited to continue my journey as an educator and researcher, inspiring students and making a meaningful impact in academia. Courses, training, lab supervision, etc.,

Research and publications

1. **(2022 – 2023)** Effect of Exfoliation Corrosion on the Efficient Hybrid Joint of AA2024-T3 and AA2198-T8 Formed by Friction Stir Welding. AHMED SAMIR ALEMDAR, SHAWNIM R. JALAL, & MOHAMMEDTAHER M. SAEED MULAPEER, Elsevier, HELIYON. Volume 2023, Impact Factor: 4; Q1.
2. **(2022 – 2023)** Influence of Friction Stir Welding Process on the Mechanical Characteristics of the Hybrid Joints AA2198-T8 to AA2024-T3. AHMED SAMIR ALEMDAR, SHAWNIM R. JALAL, & MOHAMMEDTAHER M. SAEED MULAPEER, Hindawi, Advances in Materials Science and Engineering. Volume 2022, Impact Factor: 2.098; Q2.
3. **(2021 – 2022)** A Review Paper On Bobbin Tool Friction Stir Welding (BTFSW) And Metal Inert Gas Welding Of Various Materials. AHMED SAMIR ALEMDAR, SHAWNIM R. JALAL, & MOHAMMEDTAHER M. SAEED MULAPEER, Design Engineering, 2021, Q3.
4. **(2019 – 2020)** A study of estimating the amount of corrosion to steel plates of oil storage tanks in Bai-Hassan Oil field in Kirkuk. AHMED SAMIR ANWAR & MOHAMMEDTAHER M. SAEED MULAPEER, TRANS STELLAR, (IJMPERD), Vol. 9, Issue 6, Dec 2019.

5. **(2019 – 2020)** Influence of recycled basalt-aramid fibres integration on the mechanical & thermal properties of brake friction composites. S Manoharan, Adnan Ibrahim Shihab, Ahmed Samir Anwar Alemdar, L Ganesh Babu, Materials Research Express, Volume 6, NO. 11.
6. **(2017 – 2018)** Effect of roller burnishing tool pass on surface roughness of austenitic stainless steel AISI 316L. AHMED SAMIR & RAMADAN H. GARDI, Published in Zanco Journal of Pure and Applied Science 2018.
7. **(2016 – 2017)** The 2D Finite Element Micro structure Evaluation of V-Shaped Arc Welding of AISI 1045 Steel. AHMED S. ANWAR, OMER EYERCIUGLU, K. GOV, & NECIP FAZIL YILMAZ, Metals 2017. IMPACT FACTOR 2.695; Q1.
8. **(2015 – 2016)** Effect of roller burnishing on wear resistance of austenitic stainless steel AISI 316L. RAMADAN H. GARDI & AHMED SAMIR, Published in Netherland Conference 2015 - 2016.
9. **(2015 – 2016)** Effect of roller burnishing on surface roughness of austenitic stainless steel AISI 316L. RAMADAN H. GARDI & AHMED SAMIR, Published in Duhok University Journal 2015 - 2016.
10. **(2015 – 2016)** Study the effect of aging temperature and sliding distance on wear property of SDSS SAF 2507. RAMADAN H. GARDI & AHMED SAMIR, Published in Duhok University Journal 2015 - 2016.

Conferences and courses attended

- Salahaddin University – Erbil (SUE)
- Tishk International University (TIU)
- Middle East Technical University (METU)
- Gaziantep University (GAUN)
- TU Berakademie University Freiberg (TUBAF)

Funding and academic awards

- Salahaddin University – Erbil (SUE), Ph.D. Production Engineering (P.E.), Material Science and Welding Metallurgy, 2020 – Present.
- Gaziantep University – Turkey (GAUN), M.Sc. P.E. Construction Engineering Division, Material Science and Welding Metallurgy, 2011 – 2013.
- Salahaddin University – Erbil (SUE), B.Sc. Mechanical Engineering Dept., 2002 – 2008.

Professional memberships

- Kurdistan Engineers Union.
- Kurdistan Teachers Union.

Professional Social Network Accounts:



[AHMED SAMIR ALEMDAR - Google Scholar](#)



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



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