

Faisal Theyab Abed

فيصل ذياب عبد شياع الطائي

Assistant Professor

PROFILE

Assistant Professor Faisal Theyab abed -Al Taie is a faculty member at the College of Engineering. He obtained his Bachelor's degree in Engineering from the College of Engineering at Al-Mustansiriyah University in 2006, and his Master's degree from Tambov State Technical University in the Russian Federation in 2017. He has an outstanding academic and professional record, contributing to teaching, supervision, and scientific research in the field of engineering.

ACADEMIC TITLES

2024-04-15 Assistant Professor

TEACHING EXPERIENCE

Academic Staff Member

College of Engineering

2019-09 - Present

COURSES

• power system

GRADUATE SUPERVISION

AI Framework for Optimizing Efficiency of Smart Home Energy

Roaa abed mohammed (2026)

PUBLICATIONS (19)

1. Artificial Intelligence–Driven Smart Home Energy Management Systems: Deep Learning–Based Load Forecasting, Optimization Strategies, and Open Research Challenges
   Wasit Journal of Engineering Sciences 14 (2), 424-435, 2026 | 2026
2. Deep Learning and Blockchain for Smart Grids: Integration, Challenges, and Future Directions
   E3S Web of Conferences 694, 03002, 2026 | 2026
3. Investigation of the Internet of Things to Track the Distribution Temperature of Transformers with Accounting Residential Loads
   https://link.springer.com/book/10.1007/978-3-031-82881-2, 2025 | 2025
4. Using genetic algorithm for optimal sizing of stand-alone hybrid energy system. Herit
   Sustain. Dev 6, 287-300, 2024 | 2024 | Cited: 5
5. Detection of power transmission lines faults based on voltages and currents values using K-nearest neighbors
   International Journal of Power Electronics and Drive Systems (IJPEDS) 14 (02 ..., 2023 | 2023 | Cited: 8
6. Analysis of the problems of electricity in Iraq and recommendations of methods of overcoming them
   Periodicals of Engineering and Natural Sciences 10 (1), 607-614, 2022 | 2022 | Cited: 33

CONTACT

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EDUCATION

ماجستير (07-07-2017)
Electrical Power
Tambov State Technical University

RESEARCH METRICS

h-index (Scopus)	9
h-index (GS)	11
Citations (Scopus)	314
Citations (GS)	423
Documents (Scopus)	14
Documents (GS)	18

RESEARCH INTERESTS

• Renewable Energy Engineering and Modern Power Systems

7. **Enhancement of the efficiency of solar energy cells by selecting suitable places based on the simulation of PV System**
Periodicals of Engineering and Natural Sciences 10 (2), 80-88, 2022 | 2022 | Cited: 12

8. **Enhancing the efficiency of photovoltaic power system by submerging it in the rivers**
Telkomnika (Telecommunication Computing Electronics and Control) 20 (1), 166-172, 2022 | 2022 | Cited: 20

9. **Economic Feasibility Study of a Hybrid Power Station Between Solar Panels and Wind Turbine with The National Grid in Al- Hayy City in the Central of Iraq**
IOP Conf. Series: Materials Science and Engineering 1184 (012001), 2021 | 2021 | Cited: 19

10. **Monitoring the Consumption of Electrical Energy Based on the Internet of Things Applications.**
International Journal of Interactive Mobile Technologies 15 (7), 2021 | 2021 | Cited: 52

11. **Using IoT Applications for Detection and Monitoring of Underground Cable Fault**
IOP Conf. Series: Materials Science and Engineering 1184 (012003), 2021 | 2021 | Cited: 12

12. **Impact of Substrate Temperatures On the Properties of V2O5 Thin Films Deposited by Pulsed Laser Deposition**
Journal of Physics: Conference Series 1973 (1), 012074, 2021 | 2021 | Cited: 10

13. **Efficient Energy of Smart Grid Education Models for Modern Electric Power System Engineering in Iraq**
IOP Conference Series: Materials Science and Engineering 870, 2020 | 2020 | Cited: 51

14. **Design and implementation of a smart traffic light management system controlled wirelessly by arduino**
International Association of Online Engineering, 2020 | 2020 | Cited: 40

15. **Water desalination and purification using desalination units powered by solar panels**
Periodicals of Engineering and Natural Sciences 7 (3), 2019 | 2019 | Cited: 45

16. **Analysis of the Efficient Energy Prediction for 5G Wireless Communication Technologies**
International Journal of Emerging Technologies in Learning 14 (8), 2019 | 2019 | Cited: 81

17. **Analysis the Efficient Energy Prediction for 5G Wireless Communication Technologies.**
Int. J. Emerg. Technol. Learn. 14 (8), 23-37, 2019 | 2019 | Cited: 81

18. **Attendance System Design And Implementation Based On Radio Frequency Identification (RFID) And Arduino**
Journal of Advanced Research in Dynamical Control Systems 10 (4), 1342-1347, 2018 | 2018 | Cited: 41

19. **Eliminate the Migration of Farmers to Cities by Supporting Renewable Energy Projects**
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