

Furqan Muhayodin

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OBJECTIVE

Lecturer at the university for more than 10 years' experience in teaching. Also, worked in a team in the international research group during the master's and Ph.D. studies at the well-reputed international universities.

EDUCATION

- **University of Agriculture, Faisalabad – Pakistan**
Bachelor's in Agricultural Engineering, July 2011
- **University of Stuttgart– Germany**
Master's in Water Resources Engineering and Management, November 2015
- **Technical University of Berlin – Germany**
Ph.D. in Process Engineering

ADDITIONAL SKILLS

- Expert in Microsoft Office, with a focus on Excel
- Bilingual in Urdu and English
- Good communication skills, working at a university as a lecturer, and a Ph.D. as an international student
- Good working experience in the team
- Good laboratory work experience during the Ph.D.
- Good research experience by conducting and publishing own research and supervising several bachelor's and Master's theses in the field of Farm Machinery and Power.
- Design and operate lab lab-scale anaerobic digestion plant for rice straw, organic municipal waste, and sewage sludge.

PROFESSIONAL EXPERIENCE.....

- **Lecturer**

July 2012 to present: University of Agriculture, Faisalabad, Pakistan

- **National and International trainings and workshops**

1. Use of simulation software for reverse engineering of agricultural machinery, May 10-12, 2022. Pakistan
2. Waste-to-energy technologies. May 24, 2022. Pakistan.
3. One-day seminar on mechanical transplanting and practical demonstration of the Kubota rice transplanter, July 20, 2022. Pakistan
4. One-day seminar on understanding and implementation of outcome-based education, September 25, 2023. Pakistan
5. Two-day hands-on training workshop on 3-D scanning and printing for the design of agricultural machinery, May 18-19, 2023. Pakistan
6. Pakistan Seed Congress: Seed innovations for transforming agriculture, April 28-30, 2024. Pakistan
7. International conference on GEO-informatics for water and agricultural resources management, April 24-26, 2024. Pakistan
8. Workshop on clean air with improved agricultural crop residue and biomass management in Punjab, July 10, 2024. Pakistan
9. Clean Air with Improved Agricultural Crop Residue and Biomass Management in South and West Asia (Online participation), June 6, 2024. Philippines

- **Publications**

1. Muhammad Hassan, Muhammad Umar, Tursun Mamat, **Furqan Muhayodin**, Zahir Talha, Esmaeil Mehryar, Fiaz Ahmad, Weimin Ding, and Chao Zhao 2017. Methane Enhancement through Sequential Thermochemical and Sonication Pre-treatment for Corn Stover with Anaerobic Sludge. *Energy and Fuels* 31 (6).
2. **Furqan Muhayodin**, Albrecht Fritze, and Vera Susanne Rotter 2020. A Review on the Fate of Nutrients and Enhancement of Energy Recovery from Rice Straw through Anaerobic Digestion. *Applied Sciences* 10 (6):2047.
3. Zheng Yang, **Furqan Muhayodin**, Oliver Larsen, Hong Miao, Bing Xue, Vera Susanne Rotter 2021. A Review of Composting Process Models of Organic Solid Waste with a Focus on the Fates of C, N, P, and K. *Processes* 9(473)
4. **Furqan Muhayodin**, Albrecht Fritze, Oliver Larsen, Marcel Spahr and Vera Susanne Rotter 2021. Co-Digestion of Rice Straw with Cow Manure in an Innovative Temperature Phased Anaerobic Digestion Technology: Performance Evaluation and Trace Elements. *Energies* 14(19):2561
5. **Furqan Muhayodin**, Albrecht Fritze, and Vera Susanne Rotter 2021. Mass Balance of C, Nutrients, and Mineralization of Nitrogen during Anaerobic Co-Digestion of Rice Straw with Cow Manure. *Sustainability* 13(21):11568
6. Zheng Yang, Oliver Christopher Larse, Furqan Muhayodin, Jiawei Hu, Bing Xue, Vera Susanne Rotter. Review of anaerobic digestion models for organic solid waste treatment with a focus on the fates of C, N, and P. *Energy, Ecology and Environment*