

Seyed Reza Naghed

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Civil and Environmental Engineering Department, Amirkabir University of Technology
(Tehran Polytechnic), Hafez St., Tehran, Iran

Research Interests

- Sustainability
- Conceptual models in environmental issues
- Water and Wastewater reuse
- Decision making methods
- Social issues in water and wastewater
- Green buildings

Education

2016-2019 **[Amirkabir University of Technology \(Tehran Polytechnic\)](#), Tehran, Iran.**

Master of Science, Civil & Environmental Engineering

Thesis title: "Applying the sustainability indices for integrated evaluation of new functional group (collection/treatment/reuse) for industrial wastewater treatment systems - case study"

Supervisor: Prof., [M.R. Alavi Moghaddam](#)

Thesis adviser: Eng., [F. Piadeh](#), Ministry of Energy

Sponsors: 1) Amirkabir University of Technology Grant

2) The association of Khorasan Razavi's Industrial Parks

2011-2016 **[Shahrood University of Technology](#), Shahrood, Iran.**

Bachelor of Science, Civil engineering.

Skills

Programming Languages: MATLAB, Fortran, Python

Specialized Software: Expert choice, Auto CAD, Etabs, SAFE, Arc GIS

Desktop Publishing Tools: MS Word, Excel, Powerpoint, and Mendeley

Design Tools: Adobe Photoshop, MS Visio

Languages:

- English (IELTS score: 6.5- GRE score: 310, GRE analytical writing: 3.5)
- Persian (Farsi): Native

Personal activities: Taekwondo, Swimming

Major Publications

1. Creating functional group alternatives in integrated industrial wastewater recycling system: A case study of Toos Industrial Park (Iran), *Journal of Cleaner Production*, <https://doi.org/10.1016/j.jclepro.2020.120464>
2. A new approach to customize green buildings assessment tools regarding regional climate differences-case study of Iran, *Journal of Building and Environment*, submitted- under review
3. A novel scenario-based approach for the selection of the best industrial wastewater reuse technologies in developing countries: Case study of Toos industrial park (Iran), Under propose

Major Honors & Distinctions

- Ranked in the **top 2%** among more than 30,000 participants in the Nationwide Civil Engineering Graduate Entrance Exam (May 2016)
- Ranked in the **top 2%** among more than 400,000 participants in the Nationwide Undergraduate Entrance Exam of University in Mathematics & physics Discipline (August 2011).

Major Experiences

- Amirkabir university, water research and technology development center (Fanab), researcher
Project title: “Exploration, feasibility study, implementation and monitoring of sustainable development indicators in the Tehran Province water and wastewater company in order to obtain the goals of the sustainable development with considering indigenous and functional approach.” (Oct. 2017- Feb 2018)
- Amirkabir university, water research and technology development center (Fanab), researcher
Project title: codification of SEA (Strategic Environmental Assessment) for Iran (Feb 2017 – Jul 2017)

Major Courses and Selected Projects

Fundamentals of Transport & Pollution Modeling ([Dr. M. Kolahdoozan](#))

- Project: CFD Modeling of advection and diffusion of urban area source pollutants (finite difference and finite volume methods)

Principles of Air Pollution Engineering ([Dr. B. Khorsandi](#))

- Project: Modeling the Distribution of gases from a reservoir using the AERMODE model (source code)

Data Mining: Models, Algorithms and Applications ([Dr. J. Shahrazi](#))

- Project: A review of the Apriori method in data science

Sustainable Developments & Environmental Engineering Management ([Dr. R. Maknoon](#))

- Project 1: Feasibility study of individual recycling of gray water in populated buildings of Tehran
- Project 2: A review of the risk potential of Construction, Operation, and Destruction of Water Treatment Plants

Principles of Solid Waste Engineering & Management ([Dr. T. Ebadi](#))

(Please click on hyperlinked sections in the text for related internet references)

(Other references furnished on request)

- Project: A review of landfill leachate management methods; Design and implementation of the drainage system

Local Workshop and International voluntary courses (online by [Coursera](#)):

- ✓ "Sustainability of Social-Ecological Systems: the Nexus between Water, Energy, and Food", Universitat Autònoma de Barcelona.(online)
- ✓ "Water Supply and Sanitation Policy in Developing Countries", University of Manchester. (online)
- ✓ "Safety in the laboratory", Amir Kabir University of Technology, Tehran, Iran (30 Sep. 2013).

References for Reza Naghedi**Dr. Mohammad Reza Alavi Moghaddam**

Supervisor,

Professor, Department of civil engineering, Amirkabir University of Technology

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