

Prof. Dr. Hayder Abed Dhahad



Research Interests

Emission	Combustion Analysis
Renewable Energy	AutoMobile Engineering
Engineering Thermodynamics	Waste Heat Recovery
Renewable Energy and Environment Protection	Fluid Mechanics

Education

Ph.D. in Mechanical Engineering University of Technology- Iraq	2014
Research Fellowship down in Brunel University to finish his PhD. Research	
M.Sc. in Mechanical Engineering Renewable Energy and Environment Protection University of Technology - Baghdad, Iraq	1998
B.Sc. in Mechanical Engineering University of Technology - Baghdad, Iraq	1994

Academic Positions

- **Deputy Minister of Scientific Affairs at Ministry of Higher Education and Scientific Research- Baghdad, Iraq** 1/2023 – till presents
- **Vice president of Scientific Affairs and Higher Education Studies, University of Technology- Iraq** 2019 – 2023
- **Director of Center of Training and Workshop University of Technology- Iraq** 2015 – 2019
- **Chairman of the Scientific Council to support the sustainability of Electric Power**
- **Member of the Higher Central Committee for the Sustainability of Renewable Energy in Iraq**
- **Member of the Diwani Order Committee No. (54) to support energy sustainability in Iraq**

Union and Associations

- Member of the Iraqi Engineers Associations with the degree as a consultant engineer.
- Member of the American Society of Mechanical Engineers (ASME) with degree of associate member.
- A member of the Libyan Engineers Association with the degree as a consultant engineer.
- Member of the Iraqi Academic Union.

Work Experience

- Consultant engineer designer in the field of electric power plants.
- Consultant in the field of electric power generation in the Ministry of Electricity and the General Secretariat of the Council of Ministers.
- Consulting engineer for the Jawahir Dijlah Residential Complex.
- Consulting engineer for the Budoor Baghdad Residential Complex.
- Consulting engineer for more than 12 residential Complex and service projects.

Scientific Research

Scopus:

- Scientific research published in journals within Scopus database (153)
- Scopus H-index:**25**
- citation: **1,728**
- Link: <https://www.scopus.com/authid/detail.uri?authorId=34871773300>

Web of Science:

- Scientific research published in journals within Web of Science Master Journal database (117)
- H-index:**22**
- citation: **1,328**
- Link: <https://www.webofscience.com/wos/author/record/983858>

Google Scholar:

- Scientific research published in Google Scholar (196)
- H-index:**26**
- i10-index: **56**
- citation: **2032**
- Link: <https://scholar.google.com/citations?hl=en&user=Nb2nRIYAAAAJ>

Patents

- A patent in the Second International Exhibition of Inventions and Industrial Creativity - Tripoli, Libya - Industrial Research Center 21-26 / (Development of the measurement system for the metal impact test device).
- A patent from the Central Organization for Standardization and Quality Control (COSQC)- Ministry of Planning 2018 (improving the productivity of a double-sloped solar distiller by modifying the design).
- A patent from the Central Organization for Standardization and Quality Control (COSQC)- Ministry of Planning 2018 (Elevator working on air compressor).
- A patent from the Central Organization for Standardization and Quality Control (COSQC)- Ministry of Planning 2020 (Increasing the efficiency of the solar still in three stages).

Ministerial and University Committees:

- Member of the Higher Central Committee for the Sustainability of Renewable Energy in Iraq, which was formed according to Diwani No.(58) on 28-6-2018.
- Member of the Higher Central Committee for the Sustainability of Renewable Energy in Iraq, which was formed according to Diwani No. (54) on 6-6-2021.
- Member of the Ministerial Sub-Committee No. (11) to coordinate with the General Secretariat of the Council of Ministers and the Ministry of Planning regarding important specializations needed in the labor market, both at the level of preliminary and postgraduate studies.
- Representative of the Ministry of Higher Education and Scientific Research in the higher committees for the management of civil defense work and the problem in the Ministry of Interior.
- Representative of Higher Education / University of Technology in the committee formed at the Ministry of Electricity to complete the technical requirements, cooperate and discuss proposals with Siemens.
- Member of the University Committee to Support the Army and the Popular Mobilization Forces.
- Chairman of the University Committee for the Sustainability of Renewable Energy
- Chairman of the joint scientific committee between the training center, laboratories and scientific departments to supervise practical training in the center since 1-2-2015 till presents.
- Chairman of the Scientific Committee at the Training Center and Laboratories since 1-2-2015.
- Chairman of the University Scientific Committee at the University of Technology-Iraq.
- Chairman of the examination committee in the training center and laboratories.
- Member of the Scientific Committee of the university's independence, which was formed according to University Order (1109) on 12/21/2016.
- Chairman or member of 15 permanent university scientific committee.
- Chairman or member of more than 123 temporary university committees.

Certificates of Appreciation

- Certificate of Appreciation from His Excellency the Honorable Minister of Higher Education and Scientific Research.
- Certificate of Appreciation from His Excellency Minister of Education No. 54802 on 11-13-2017
- Certificate of Appreciation from His Excellency the Honorable Minister of Youth and Sports
- Certificate of Appreciation from the former Deputy Minister to His Excellency the Minister of Higher Education and Scientific Research.
- Certificate of Appreciation from Deputy Minister of Education for Administrative Affairs
- 153 Certificates of Appreciation from the President of the University of Technology since 2009 until now.
- Many Certificates of Appreciation from the heads of departments and deans.

Courses and Seminars

- Lecturer in more than 25 continuing education courses organized by the Training Center and Laboratories at the University of Technology-Iraq

Scientific Participations

- 6 developmental courses at Brunel University - London - United Kingdom 2013.
- A course to raise administrative efficiency and leadership skills (University of Technology - Continuing Education Center for the period 15-29/1/2010.
- TIG welding course (Ministry of Labor and Social Affairs - Iraqi-Korean Training Center.
- Computer competency course (University of Technology - Electronic Computer Center.
- Teaching methods course (University of Technology, Continuing Education Center) for the period 22/2 to 3/8/2009.
- Course in the American Society of Mechanical Engineers entitled: “ASME Boiler and Pressure Vessel code: section VIII div1 Design and fabrication of pressure vessels” for the period 22-26 /2/2002.
- Course in the American Society of Mechanical Engineers entitled: “Inspection, Repairs and Alterations of pressure vessels” for the period 3-7/6/2003.
- Course in the American Society of Mechanical Engineers entitled: “ASME Boiler and Pressure Vessel code: section IX Welding & Brazing” for the period 15-17 /3/2006.
- Course in the American Society of Mechanical Engineers entitled: “Practical Welding Technology” for the period 8-12/5/2007.
- Course in the American Society of Mechanical Engineers entitled: “ASME B31.4 pipeline transportation systems for liquid hydrocarbons and other liquids” for the period 18-20 / 7 / 2008.

Scientific Activities

- Instructor at Mechanical Engineering Department University of Technology.
- Instructor at Control and Systems Engineering Department
- Supervised on many Ph.D. and Master Students University of Technology.
- Reviewer in many high-ranking Journals.