

Curriculum Vitae

Professor Associate at Chemistry Department
Faculty of Science
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Faten Hameed Abdullah Mohsen Thamer,

PhD (Chemistry)

Academic Qualification

- **PhD.in analytical Chemistry**, [2014-2019], Department of Chemistry, Faculty of Science, Sana'a University, Republic of Yemen. Title of the thesis: "**Determination the Total Antioxidant's Activity by Using New Spectrophotometric Method Based on Oxidation and Coupling Reaction**".

- **M. Sc. in analytical Chemistry**, [2011-2013], Department of Chemistry, Faculty of Science, Sana'a University, Republic of Yemen. Title of the thesis: "**Spectrophotometric Determination of some catecholamine**".

- **M. Preliminary in Inorganic Chemistry**, [2009-2010], Department of Chemistry, Faculty of Science, Sana'a University, Republic of Yemen.

- **B. Sc. [Chemistry 2002-2006]**, Department of Chemistry, Faculty of Science, Sana'a University, Republic of Yemen.

▪ **Research Interest**

- Modification of spectrophotometric methods and developed a new method to determination antioxidants in all different kind of herbs.
- Study the pharmaceutical effect of the medicine herbs on human body.
- Natural product and extraction of the essential oil from different plants and use it as medicine.
- Comparison between the extraction procedures of medical plants.

▪ **Researcher Experience (17 years)**

- Research Assistance in analytical chemistry laboratory 2011- 2023.

- During the master degree, my research involved developing new spectrophotometric method for determination of catecholamine in blood and pharmaceutical samples.
- Later developed my research on design and develop of new methods for determination of antioxidants in herbs.
- **Relative Skills**
 - Develop a new spectrophotometric method for determination of some compounds in pharmaceutical and optical application.
 - Isolation, purification and characterization of reaction products by spectroscopic (IR, NMR, UV-Visible and Mass spectrometry) techniques.
 - Problem solving skills in spectrophotometric methods and analytical analysis.
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- **Teaching Experience (18 years)**
 - 1. **Professor assistance (2019- to now) at**
 - **Sana'a University** (department of chemistry): List of theoretical course Taught for undergraduate students:
 - Analytical chemistry 1
 - Analytical chemistry 2
 - Analytical chemistry 3 (Instrumental Analysis 1)
 - Analytical chemistry 4 (Instrumental Analysis 2)
 - General Chemistry 1, 2
 - **Sana'a University** (department of chemistry): List of theoretical course Taught for master students:
 - Advanced Analytical Chemistry (spectroscopic and electrochemical) Analysis.
 - Advanced Analytical Chemistry (separation methods "chromatography").
 - Academic supervision: Supervising three master's theses in Analytical chemistry
 - **Al-Razi University** (College of medical sciences Department of pharmacy) (2018-to 2023): List of theoretical course Taught:
 - Analytical chemistry 1
 - Pharmaceutical Instrumental Analysis I (electro and thermal analysis)
 - Pharmaceutical Instrumental Analysis II (spectroscopy)

- Pharmaceutical Instrumental Analysis III (chromatography)

Saba'a University (College of medical sciences Department of pharmacy) (2021-to now):

List of theoretical course Taught:

- Analytical chemistry 1
- Pharmaceutical Instrumental Analysis I (electro and thermal analysis)
- Pharmaceutical Instrumental Analysis II (spectroscopy)
- Pharmaceutical Instrumental Analysis III (chromatography)

2. Teacher Assistance (2013-2017) at:

• **Sana'a University** (department of chemistry): List of theoretical course Taught:

- Analytical chemistry 1, 2, 3, 4
- General Chemistry 1, 2
- Organic chemistry 1, 3, 5, 6
- Biochemistry

• **Science and Technology University** (Pharmacy College): List of theoretical courses

Taught

- Analytical chemistry 1
- Organic chemistry 3

3. Tutor (2006-2013) at Department of Chemistry, Faculty of Science,

• **Sana'a University**, Republic of Yemen. List of practical lab taught:

- General Chemistry 1 and 2
- Organic Chemistry 1, 3, 4, 5 and 6
- Analytical Chemistry 1, 2, 3, 4
- Biochemistry

❖ Equipment Handled

- Gas Chromatograph coupled with Mass Spectrometer (GC-MS2010).
- Fourier Transform- Infrared Spectrophotometer (FT-IR -8400s SHIMADZU)
- UV-Visible Spectrophotometer (Analytic gena).
- High Performance Liquid Chromatography (Shimadzu).

❖ Soft Skills

- Good in English (writing, listening and speaking).
- Fluent in Arabic (writing, listening and speaking).

- Windows and linux literate.
- Very good handling with computer with word, excel and power point field and Internet literate.
- Origin 8.0, ChemDraw Ultra 9.0, ChemSketch 11 and Adobe Photoshop.
- Good communicator.
- Graphpad for analysis of data
- References program as Mendeley and end note.
- Ability to work both with team and independently.

❖ Workshops and Conferences:

- MASTERY Training Workshop Towards Better Performance of Teacher Assistances and Technicians at the Chemistry Laboratories (2008) Training and Trainer, Sana'a University, Sana'a , Yemen.
- Training workshop on teaching and evaluation strategies ang building exams for academic programs (2021) from Academic Development Center and Quality Assurance, Sana'a University, Sana'a, Yemen.
- Description of curricula and courses for chemistry undergraduate students workshop(2021) from Academic Development Center and Quality Assurance, Sana'a University, Sana'a, Yemen.
- Description of curricula and chemistry courses for Applied Medicinal science undergraduate students workshop(2021) from Academic Development Center and Quality Assurance, Sana'a University, Sana'a, Yemen.
- Description of curricula and analytical and instrumental analysis courses for pharmacy undergraduate students workshop(2022) Ai-Razi University, Sana'a, Yemen.
- Description of curricula and chemistry courses for Analytical Chemistry master students workshop (2024) from Academic Development Center and Quality Assurance, Sana'a University, Sana'a, Yemen.
- [Reviewer](#) in Phytomedicine journal and Arabian Journal of Chemistry (science direct –Elsevier 2023-2024), discover applied science, discover chemistry, discover plant, BMC Complementary Medicine and Therapies, (Springer Nauter 2024-2026), American Journal of Chemistry and Biotechnology (science publication), and in Sana'a University Journal of Applied Sciences and Technology.

❖ PUBLICATIONS:

[1] E. M. A. Dauqan, [Eaten. H. Thamer](#), K. M. Naji, and Y. Alshaibi, “Different extraction methods and antioxidant properties of thyme (Thymus vulgaris L .) herb,” *International Journal*

of Chemical Science, vol. 1, no. 2, pp. 110–116, 2017.

[2] [Faten H Thamer](#), Eqbal MA Dauqan, Khalid M Naji, “The effect of drying temperature on the antioxidant activity of thyme extracts .,” *food-technology-and-preservation*, vol. 2, no. 3, pp. 2–7, 2018.

[3] K. Mohammed, [Faten. Hameed Thamer](#), A. Ahmed, E. Mohammed, Y. Mohammed, and M. Roslen, “ Ferric-bipyridine assay : A novel spectrophotometric method for measurement of antioxidant capacity,” *Heliyon*, vol. 6, no. December 2019, p. e03162, 2020.

[4] [Faten Hameed Thamer](#), N. Thamer, A. Alhamzi, N. Al-ansi, S. Al-sadi, and A. Al-shibeh, “Antioxidant Capacity , Total Phenol Contents and Phytochemical Screening of Citrullus colocynthis Crust , Pulp and Seeds Extracts,” *Am. J. Biochem. Biotechnol.*, vol. 19, no. 1, pp. 12–19, 2023, doi: 10.3844/ajbbsp.2023.12.19.

[5] [Faten Hameed Thamer](#), Mustafa Ali Alquhwi, “Antioxidant activity , total phenol contents , and antimicrobial activity of two Yemeni medicinal plants belongs to Euphorbiaceae family (Jatropha curcas and Euphorbia Cactus Ehrenb,” *Sana’a Univ. J. Appl. Sci. Technol. I*, vol. 1, no. 1, pp. 13–18, 2023.

[6] [Faten. H. Thamer](#) and N. Thamer, “Gas chromatography – Mass spectrometry (GC-MS) profiling reveals newly described bioactive compounds in Citrullus colocynthis (L .) seeds oil extracts,” *Heliyon*, vol. 9, no. 6, p. e16861, 2023, doi: 10.1016/j.heliyon.2023.e16861.

[7] [F. Hameed Thamer](#) et al., “Capparis cartilaginea Decne . as a natural source of antioxidant , anti-inflammatory , and anti-cancer herbal drug,” *Phytomedicine Plus*, vol. 4, no. 1, p. 100502, 2024, doi: 10.1016/j.phyplu.2023.100502.

[8] A. Z. Maysoon A, [Thamer Faten H](#), T. Habib, and A. Khawlah Shrf, “Production of L-Asparaginase by Yemeni Filamentous Fungi,” *Arch. Biotechnol. Biomed.*, vol. 7, no. 1, pp. 018–023, 2023, doi: 10.29328/journal.abb.1001036.

[9] [Thamer Faten H](#), Adlia A. Abduljabbar, Amani A. AlGaadbi1, Afraah M. Alfaatesh1, Hussein M. A. Al-Maydama1 and Maher A. Almaqtari, “Evaluation of Antioxidant and Antibacterial Activities of Leaf and Seeds Extracts of Neem (*Azadirachta indica*) Using Different Extraction,” *Sana’a Univ. J. Appl. Sci. Technol. I*, Vol.2, No.6, Page 520- 526, 2024, doi.org/10.59628/jast.v2i6.1379.

[10] [F.H. Thamer](#), A. Alshargabi, Phytochemical profiling and in vitro biological activities of Opuntia ficus-indica oil extracted by different methods, *Sci. Rep.* 13812 (2026) 1–15.

[11] [F.H. Thamer](#), and R.S. Mohammed, Novel Insights into the Fatty Acid

Composition of Yemeni Prickly Pear, Colocynth, and Grape Seed Oil, Nat. Prod. Commun. 21 (2026) 1–11. <https://doi.org/10.1177/1934578X261466826>.