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A1. EDUCATION AND EMPLOYMENT INFORMATION

EDUCATION:

- Ph.D. Applied Mathematics, Sultan Qaboos University, College of Science, Sultanate of Oman, 2022.
- M. Sc. Applied Mathematics, Sultan Qaboos University, College of Science, Sultanate of Oman, 2015.
- General Diplome in Education. UNIVERSITÉSAINT-JOSEPH (BEYROUTH – LIBAN,2004.
- B. Sc. Mathematics, College of Education, Nizwa, Sultanate of Oman, 2001.

AREAS OF ACADEMIC/RESEARCH INTEREST:

- Applied Mathematics.
- Mathematical Modelling.
- Thermal Fluid Discharge.
- Air pollution
- Wastewater treatment, Sewage treatment.
- Civilian Engineering
- Water quality and Groundwater pollution.
- Numerical Methods.
- Partial Differential Equations.
- Theory of Differential Equations.

Employment Information:

- (Currently) Assistant Professor of Mathematics, Department of Basic and Applied Sciences, College of Applied and Health Sciences, A'Sharqiyah University, Oman, Fall 2024.

- Visitor Lecturer of Mathematics, DMPS, College of Arts and Sciences, University of Nizwa, Oman, Summer 2024.

- Visitor Lecturer of Mathematics, DMPS, College of Arts and Sciences, University of Nizwa, Oman, Spring 2024.

- Visitor Lecturer of Mathematics, DMPS, College of Arts and Sciences, University of Nizwa, Oman, Fall 2023.

- Visitor Lecturer of Mathematics, DMPS, College of Arts and Sciences, University of Nizwa, Oman, Summer 2023

- Senior lecturer of Mathematics, University of Technology and Applied Sciences, IBRI, September 2022- May 2023.

- A member adaption Team for the World Series for Mathematics and Science (Cambridge Series) Ministry of Education. (General Directorate of Curriculum Development), April 2022-August 2022.

- Visitor lecturer of Mathematics, Center for Preparing Studies at Sultan Qaboos University for foundation science students, Fall 2018.

- Teacher of Mathematics, Ministry of Education, Ibri,2001-2022.

A2. TEACHING EXPERIENCE

A2.1 Credit courses at University of Sultan Qaboos.

No.	Course Code	Course Name	Credit Hours	No of registered students	Semester
1.	FPMT 0108	Foundation science	3	40	Spring 2018

A2.2 Credit courses at University of Technology and Applied Sciences, IBRI

No.	Course Code	Course Name	Credit Hours	No of registered students	Semester
1.	FPMB0001	Basic Mathematics	3	110	Fall 2022-2023
2.	FPMB0001	Basic of Mathematics	3	35	Spring 2022-2023
3.	FPMP0003	Pure Mathematics	3	29	Spring 2022-2023

A2.3 Credit courses at University of Nizwa

No.	Course Code	Course Name	Credit Hours	No of registered students	Semester
1.	MATH 256	Mathematics for Teacher II	3	25	Summer 2023
2.	MATH 356	Mathematics for Teacher III	3	4	Summer 2023
3.	MATH356	Elementary Number Theory	3	4	Summer 2023
4.	MATH 228	Mathematics for Teacher I	3	61	Fall 2023
5.	MATH 351	Partial Differential Equations	3	42	Fall 2023
6.	MATH 251	Ordinary Differential Equations	3	40	Fall 2023
7.	MATH 356	Linear Algebra II	3	61	Fall 2023
8.	MATH 228	Mathematics for Teacher I	3	109	Sprin 2024
9.	MATH 212	Calculus II	3	84	Sprin 2024
10.	MATH 251	Ordinary Differential Equations	3	61	Sprin 2024
11.	MATH 145	Linear Algebra I	3	80	Sprin 2024

12.	MATH 251	Ordinary Differential Equations	3	61	Summer 2024
13.	MATH 312	Ordinary Differential Equations for Engineers	3	40	Summer 2024
14.	MATH 228	Mathematics for Teacher I	3	22	Summer 2024

A2.4 Credit courses at University of A'Sharqiyah, IBRA

No.	Course Code	Course Name	Credit Hours	No of registered students	Semester
1.	MATH 101	Calculus I	3	45+45	Fall 2024
2.	MATH 406	Calculus III	3	32	Fall 2024
3.	EETE 315	Complex Variables and Applications	3	31	Fall 2024
4.	MATH140	Discrete Math	3	34	Fall 2024
5.	MATH 301	Multi Variable Calculus	3	18	Fall 2024

A2.4 STUDENTS EVALUATIONS

No	Semester	Total Enrolled Students	Participating Rate	Overall Average	University/ College
1.	Fall 2022-2023	110	4.12	4.58 out 5	UTAS
2.	Spring 2020-2021	64	4.6	4.3 out 5	UTAS
3.	Fall 2023	204	87.25	84.86%	University of Nizwa
4.	Spring 2024	334	80	80%	University of Nizwa
5.	Summer 2024	125	80	81%	University of Nizwa

A3. RESEARCH & PUBLICATIONS

1- Al-Muqbali, A.A. and Purnama, A. (2022). The Effect of a Step Increase in Depth and Decay upon Dispersion of Coastal Effluent Discharges. *Applied Mathematics*, 13, 37-55. <https://doi.org/10.4236/am.2022.131004>.

2- Purnama A., Al-Maamari H.A., Al-Muqbali A.A., Balakrishnan E. (2020). The effect of a step change in seabed depth on spreading discharged brine effluents from a two-outfall system, *Journal of Mathematical and Computational Science*, 10 (4) , pp. 758-777.

3- Participated in Research Day held by University of Nizwa, by scientific poster of published paper. 14, December,2023.

4-, BATHYMETRIC AND MORPHOLOGY EFFECTS ON ESTUARINE PLUME DYNAMICS IN SOURCE REGION, NEAR-FIELD, MID-FIELD, FAR-FIELD REGIONS, submitted.16. October,2024

5- Publishing a Chapter book, SINGLE-TYPE POPULATION MODELS IN MATHEMATICAL ECOLOGY, submitted, 16. October ,2024

6- Model Studies for wastewater discharges On the Sea by line source. (In progress)

7- Analytical Solution of Open Surface for Thermal Discharges into The Ocean. (In progress)

A3.1- (Projects for Postgraduate students/Graduation students/TRC)

1- Compare study: Analytical Solution for wastewater discharges on the source by point source and line source.

2- Mathematical Model for the effects for effluents discharges of groundwater quality.

A3.2- CONFERENCE PROCEEDINGS AND ATTENDANCE

1- Participated in International Conference on Modeling, Simulation and Optimization of Energy Systems (MSOES 2023), Canadian University Dubai, UAE in Hybrid mode, June 17-18.

2- Presented a talk at the Second International Conference on Water Resources in Arid Areas, SQU, online, November 2020.

3- Attended Fourth Excellence Conference, The Excellence Research Center of Science and Mathematics Education (ECSME), King Saud University, online, May 2022.

4- Attended the Third International Conference on “Numerical Analysis and Optimization (NAOIII 2014)”, SQU, January 2014.

A3.3 - SYMPOSIUMS AND SEMINARS

1- Presented a talk at the Third Cambridge-Sultan Qaboos University Symposium (CAMSQU2019) on Mathematical Modelling, April 2019.

2- Presented a talk in Symposium on Small Desalination Units for Agricultural Sustainability, Oman Water Society, Held at Barka, Al-Batinah South, Sultanate of Oman, March, 2018.

3- Attended the Continuous Professional Development Seminar under the title “Introduction to Fellowship of Higher Education Academy (FHEA)”, SQU, May, 2018.

A3.4- ATTENDANCE of WORKSHOPS AND PROFESSIONAL COURSES.

1) Workshop on” Adaption for the World Series for Mathematics and Science for grades (11-12)”, Ministry of Education, Muscat, June 2022.

2) Virtual Workshop on “Mathematical Modelling and Numerical Optimization” Oman Mathematics Committee, SQU, 12 May, 2022.

3) Skills Workshops on” Thesis Writing” SQU, 18 March, 2020.

4) Skills Workshops on” How to defend your thesis” SQU, 9 March, 2020.

5) Skills Workshops on” Critical & analytical writing” SQU, 24 February, 2020.

6) Training on Ebook Central, Proquest Central, and ProQuest Dissertations and Theses contents and functionalities, SQU, March, 2019.

7) Participated in the Elsevier training for Science Direct and Scopus solutions, SQU, September 2018.

8) Attendance, Oman Mathematics Day IV, SQU, 2018.

9) Attendance, Oman Mathematics day III, SQU, 2017.

- 10) Attendance, Oman Mathematics day II, SQU, 2016.
- 11) Participation on” Math and Science Trainers for the first episode (1-4) program”, Ministry of Education, 2016.
- 12) Attendance, Oman Mathematics day I, SQU, 2015.
- 13) Presenting and carrying out a paper work on “Differential Equations” Ministry of Education, 2015.
- 14) Workshop on” Educational Training Development Program” Ministry of Education, 2015.
- 15) Participation on” program Professional Development”, Ministry of Education, 2015.
- 16) Attended workshop on” advance mathematical of Grade 12”, Ministry of Education, 2015.

A4. SERVICES

A4.1 COMMITTEES

➤ No.	Title	Level
1	Member of organizing committee of the 5 th International Conference on Numerical Analysis and Optimization (NAOV-2020).	SQU
2	Member of organizing committee of the Third Cambridge-Sultan Qaboos University Symposium (CAMSQU2019) on Mathematical Modelling, April, 2019.	SQU
3	Member of Scientific Committee Oman Water Society, 2023-2025	SC-OMW

A5. ACADEMIC/RESEARCH SKILLS:

1) Operating system:

- Latex.
- Math Type
- Windows

2) Programing Language:

- MATLAB.
- MAPLE.
- CORMIX.
- Visjet.
- Desmos.
- GeoGebra.

A6. REFERENCES:

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