

CURRICULUM VITAE

Dr. Jowhar Rasheed Muhammed

Water Resources Engineering Department
College of Engineering
Duhok University

SEPTEMBER- 2011

PERSONAL DETAILS

Name : Jowhar Rasheed Muhammed

Nationality : Iraqi, Kurdish

Date of birth : March 2nd 1964

Place of birth : Kirkuk - Iraq

Marital Status : Married- 2 children

E-mail : jowharus@yahoo.com

EDUCATIONAL HISTORY AND QUALIFICATIONS

B.Sc. -Civil Engineering-1986- Salahaddin University

M.Sc. -Hydraulic Engineering-1992- Salahaddin University .

Ph.D. -Water Resources Engineering-2007- Mosul University

EMPLOYMENT HISTORY

Aug. 2005- : Assistant Professor –Water Resources Engg. Dept.- College of Engineering- Duhok University.

Aug. 1997-Aug. 2005: Lecturer –Water Resources Engg. Dept.- College of Engineering- Duhok University.

Feb. 1997-Aug. 1997: Lecturer –Kirkuk Technical Institute.

Sep. 1992- Feb. 1997: Assistant Lecturer (same place).

WORK EXPERIENCE

Posts

Aug. 2010- : Head of the department –Water Resources Engg. Dept.- College of Engineering- Duhok University.

March. 2008-Aug. 2008: Scientific Affairs Dean assist..- College of Engineering- Duhok University

Aug. 2001-Aug. 2003: Head of the department –Water Resources Engg. Dept.- College of Engineering- Duhok University.

Sep. 2001-Aug. 2002: Head of the department –Civil Engg. Dept.- College of Engineering- Duhok University.

Sep. 1999-Oct. 2001: Head of the department –Water Resources Engg. Dept.- College of Engineering- Duhok University.

Broad Area

Hydraulic Modelling, Hydrological Modelling, Stochastic Modelling, Optimization.

TEACHING ACTIVITIES

Under Graduate Level

Hydrology for Engineers, Water Resources Planning, Hydraulic Applications, Advanced Engg. Analysis, Hydraulic Lab.

Post Graduate Level:

Unsteady Flow (Ph.D)

Dimensional Analysis and Modelling (MSc.)

Theory of Elasticity (MSc.)

Advanced Hydrology (MSc.)

Open Channel Hydraulic (MSc.)

Computational Hydraulic (MSc.)

Finite Element Analysis (MSc.)

Advanced Math. (MSc.)

HIGHER DEGREE CANDIDATES SUPERVISED

1. MSc. Student (A Comparative Study of 1-D and 2-D Finite Element On Trapezoidal Profile Weir).
2. MSc. Student (LABORATORY STUDY OF ENERGY DISSIPATION USING SCREEN WALLS).
3. PhD. Student (Two-dimensional flow model for reference cross-section high velocity channel).Plymouth Univ.

4. PhD. Student (Study of the effect of inclined steps on the characteristics of high velocity flows over stepped spillways). Plymouth Univ.
5. PhD. Student (SHORT AND LONG TERM MUNICIPAL WATER DEMAND FORECASTING).
6. PhD. Student (ARTIFICIAL NEURAL NETWORK-FINITE VOLUME COUPLED MODEL FOR RIVER).
7. MSc.Student (CFD Modelling of Ogee Type Spillways)

Major projects handled / involved

- 1- Design of 41 irrigation project (FAO).
- 2- Design a computer system for Duhok dam.
- 3- Design of Branch 508 in kirkuk irrigation project (canal and hydraulic structures design and onfarm works).
- 4- Design of Chamanki (Duhok) road for Habitat/UN.
- 5- Design of Ora (Duhok) road for Habitat/UN.
- 6- Design of Galigarago (Duhok) road for Habitat/UN.
- 7- Design of Tirwanish (Duhok) road for Habitat/UN.
- 8- Design of 7 Settelement areas for Habitat/UN including interior roads.
- 9- Design of roads, sewer, water network for Qrga Sulaimania (about 150 km).
- 10- Design of Zakho water treatment plant for UNICEF.(Feasibility and Detail design)
- 11- Design of Aqra water treatment plant for UNICEF. .(Feasibility)
- 12- Design of Hiteet water treatment plant for Habitat/UN.
- 13- Design of Brefca water treatment plant for Habitat/UN.
- 14- Workshops in engineering softwares .
- 15- Design of Eng. College (Duhok) university for Habitat/UN.
- 16- Design of Hamzeek Dam (FAO).
- 17- Design of Aqra water treatment plant.(Detail design)
- 18- Design of Kharabdeam intake structure for Dohuk water treatment plant.
- 19- Design of Qaladza water treatment plant.
- 20- Design of Kalak-Bardarash Road.
- 21- Design of Sewer Network and Treatment Plant of Shari Andazyaran Arbil.
- 22- Design of Banu-Taliban Dam.

COMPUTER SKILLS

Highly motivated with good experience in CAD/CAM design and Programming . I have an in-depth understanding of Hydraulic, Sanitation and of the following AutoCAD Land development (included civil design and survey),

Staadpro (Structural analysis and design),Watershed modeling system (WMS), Surfacewater modeling system (SMS), Groundwater modeling system (GMS), Epanet (quantity and quality analysis of water supply system), SewerCad ,WaterCad, Matlab, SPSS, Programming with Fortran, basic and C++ .

SCIENTIFIC MEMBERSHIP OF PROFESSIONAL SOCIETIES

1. Iraqi Engineers Union
2. Kurdistan Engineers Union

PUBLICATIONS

1. Studying Seepage through and under earth dam on alluvial foundation by finite element method, Tikrit Scientific Journal, Iraq.
2. Determining Failure surface in earth dams by finite element Method, Technical Journal,Iraq.
3. Calculating critical depth of trapezoidal open channel /A new approach, Duhok University J.
4. Design of Image Computational Ciphering System Using PC, Technology J. , Iraq.
5. Stochastic Model of Khazir river flow, Duhok University J.
6. Khabur River Flow Modeling using Artificial Neural Networks, Musil University J.
7. Estimation of Scour in Long Contractions Using Artificial Neural Networks, Duhok University J.