


**Academic Curriculum Vitae: Basil Younus Mustafa**

<b>First name</b>	Basil						
<b>Middle name</b>	Younus						
<b>Family name/ Surname</b>	MUSTAFA						
<b>E-mail</b>	<a href="mailto:basil.mustafa@epu.edu.iq">basil.mustafa@epu.edu.iq</a> <a href="mailto:basil.younus@yahoo.com">basil.younus@yahoo.com</a> <a href="mailto:basil.younus@gmail.com">basil.younus@gmail.com</a>						
<b>Academic Profile:</b>	<a href="https://staff.epu.edu.iq/faculty/basil.mustafa">https://staff.epu.edu.iq/faculty/basil.mustafa</a>						
<b>Date of Birth</b>	17 <sup>th</sup> February, 1964						
<b>Place of birth</b>	Erbil - Iraq						
<b>Academic title</b>	Assistant Professor						
<b>Address</b>	English Village Compound - House No. 227, Erbil, 44001, Kurdistan Region, Iraq						
<b>Office Address</b>	Civil Engineering Department / Erbil Technical Engineering College / Erbil Polytechnic University – Erbil -Iraqi Kurdistan Region						
<b>Mobile No.</b>	00964 750 4451970 00964 770 4451970						
<b>Academic attainments</b>	<b>Certificate</b>	<b>University</b>	<b>College</b>	<b>Department</b>	<b>Graduation year</b>	<b>Country</b>	
	B. Sc.	Salahaddin	Engineering	Civil Engineering	1986	Iraq/Erbil	
	M. Sc.	Salahaddin	Engineering	Hydraulic Engineering	1991	Iraq/Erbil	
<b>Academic title attained</b>	<b>Academic title</b>				<b>Date of attainment</b>		
	Assistant Lecturer				12/09/1992		
	Lecturer				11/01/1998		
	Assistant Professor				10/03/2007		
<b>General specialization</b>	Civil Engineering / General						
<b>Specific specialization</b>	Hydraulic Civil Engineering						
<b>M.Sc. Thesis title</b>	Study of Sediment Transport for Balakian and Rawanduz Rivers						
<b>Languages:</b>							
English	high level (writing/speaking/reading)						
Kurdish	fluent level (writing/speaking/reading)						
Arabic	fluent level (writing/speaking/reading)						
Turkish	fluent level (writing/speaking/reading)						
<b>Assignment and posts:</b>							
1- From 09/1992 to 07/2001/Lecturer at civil Engineering Department / College of Engineering/ University of Salahaddin-Erbil, and during that period from 09/1998 to 07/2001 /Registrar of the college/ College of Engineering / University of Salahaddin –Erbil.							

- 2- From 07/2001 to 11/2003 /Hydraulic Civil Engineer, Head of surface water Irrigation unit / United Nations, FAO (Food and Agriculture Organization)/ Erbil Office – Iraq
- 3- From 01/09/2003 to 1/09/2004 / Lecturer at Civil Department / Erbil Technology Institute / Foundation of Technical Education -Erbil-Iraq
- 4- From 01/09/2004 till 01/06/2007 / Assistant professor at Civil Engineering Department / Erbil Technical Engineering College / Erbil Polytechnic University –Erbil-Iraq
- 5- From 01/06/2007 till 01/09/2012/ Head of Air-conditioning and Refrigeration Engineering Department / Erbil Technical Engineering College / Erbil Polytechnic University –Erbil-Iraq
- 6- From 01/04/2009 till now / Director of Engineering Consulting Bureau / Erbil Technical Engineering College / Erbil Polytechnic University –Erbil-Iraq.
- 7- From 01/09/2012 till 01/04/2018 / Head of Civil Engineering Department / Erbil Technical Engineering College / Erbil Polytechnic University –Erbil-Iraq.

**Committees participated in the college and university:**

- 1- Examination committee member (from 1993 to 1997) at civil Engineering Department /College of Engineering / University of Salahaddin, and (from 2004 to 2006) at Civil Engineering Department / Erbil Technical College / Foundation of Technical Education.
- 2- Examination committee member for post graduate studies for academic year (1999 to 2001) at College of Engineering/ University of Salahaddin.
- 3- Head of Examination committee / for academic years (2007-2018) / Erbil Technical Engineering College / Erbil Polytechnic University
- 4- Member of Central Scientific Promotion Committee / (from 2008 to 2014) at Erbil Polytechnic University
- 5- Member of Central Scientific Committee (from 2010 to 2013) at Erbil Polytechnic University
- 6- Member of Scientific title awarding Committee (from 2005 to 2008) at Erbil Polytechnic University.
- 7- Member of Central Sectoral Technological Committee (from 2007 to 2016) at Erbil Polytechnic University.
- 8- Member of Central Grant Allocations Committee (from 2011- till now) at Erbil Polytechnic University.
- 9- Head of Scientific Promotion Committee at Erbil Technical Engineering College (from 2017 to 16-7-2019).
- 10- Member of Central Scientific Committee at Erbil Polytechnic University (from March, 2017-till now).
- 11- Head of Plagiarism Committee at Erbil Technical Engineering College (from Jul, 2019-till now).
- 12- Member of higher education examination committee (from Jul, 2019-till now).

**Conferences:**

- 1-Third Scientific Conference of University of Salahaddin, June-1997.Erbil, Iraq
- 2- First Scientific Research Conference of Brayati Center in cooperation with Salahaddin University, Erbil, Iraq, may,2001
- 3- 1<sup>st</sup> Scientific Research Conference of Foundation of Technical Education, Duhok, Iraq, Dec. 2010

- 4- 5<sup>th</sup> International Mechanical Engineering Forum (IMEF) CZECH University of Life Sciences - Prague, Czech Republic, from 20-22 June 2012.
- 5- 2<sup>nd</sup> International Engineering Conference (IEC2016), organized jointly by ISHIK University and Erbil Polytechnic University. Erbil. Kurdistan region, Iraq, from 21 – 22 February 2016.
- 6- 10th ICOLD European Club International Symposium (Dams and HEPPs for Sustainable Development), from 25-30 October 2016 in Antalya, Turkey.
- 7- 3<sup>rd</sup> International Engineering Conference (IEC2017), organized jointly by ISHIK University and Erbil Polytechnic University. Erbil. Kurdistan region, Iraq, from 26 – 27 February 2017.
- 8- 2nd International Conference of the College of Engineering-University of Duhok: Recent Innovations in Engineering (ICRIE 2017), from April 26th to 27th, 2017 in Duhok City, Kurdistan Region – Iraq.
- 9- International Conference of Water and Energy in Kurdistan, Challenges and Alternatives (IC-WEKCA17), organized by College of Engineering-University of Salahaddin, Erbil. Kurdistan region, Iraq, from 14th-15th May, 2017.
- 10- 4<sup>th</sup> International Engineering Conference (IEC2018), organized jointly by Tishk international University and Erbil Polytechnic University. Erbil. Kurdistan region, Iraq, from 26 – 27 February, 2018.
- 11- 5<sup>th</sup> International Engineering Conference (IEC2019), organized jointly by Tishk international University and Erbil Polytechnic University. Erbil. Kurdistan region, Iraq, from 23 – 25 June, 2018.
- 12- 6<sup>th</sup> International Engineering Conference (IEC2020), organized jointly by Tishk international University and Erbil Polytechnic University. Erbil. Kurdistan region, Iraq, from 26 – 27 February, 2020.
- 13- 7<sup>th</sup> International Engineering Conference (IEC2021), organized jointly by Tishk international University and Erbil Polytechnic University. Erbil. Kurdistan region, Iraq, from 24 – 26 February, 2021.
- 14- 8<sup>th</sup> International Engineering Conference (IEC2022), organized jointly by Tishk international University and Erbil Polytechnic University. Erbil. Kurdistan region, Iraq, from 24 – 26 February, 2022.
- 13- 9<sup>th</sup> International Engineering Conference (IEC2023), organized jointly by Tishk international University and Erbil Polytechnic University. Erbil. Kurdistan region, Iraq, from 15 –16 February, 2023.

**Training Courses :-**

- 1- Participation in training Course as trainer: - “Higher Education Leadership and Management in Iraq Program “; held at Erbil by (British Council). From 8 to 12<sup>th</sup> December 2013.
- 2- Participation in training Course as trainer: - “HAVAC in buildings systems – Hydraulics “; held at Zug-Switzerland organized by (Siemens Company). From 15 to 17<sup>th</sup> September 2014.
- 3- Participation in training Course as trainer: - “Project Management “; held at Zug- Switzerland; organized by (Siemens Company). From 18 to 19<sup>th</sup> September 2014.
- 4- Participation in training Course as Instructor In the training course for Erbil G.D. of Roads and Bridges Construction and Housing Engineers on Iraqi General Specifications for Roads & Bridges (G.S.R.B.), held from

12<sup>th</sup> October to 29<sup>th</sup> December 2022 in Erbil, Kurdistan Region, Iraq. Organized by both Engineering Consulting Bureaus from Erbil Polytechnic University (EPU) & Tishk International University (TIU).

5- Participation in training Course as Instructor In the training course for Duhok G.D. of Roads and Bridges Construction and Housing Engineers on Iraqi General Specifications for Roads & Bridges (G.S.R.B.), held from 31<sup>th</sup> January to 23<sup>th</sup> May 2023 in Duhok, Kurdistan Region, Iraq. Organized by both Engineering Consulting Bureaus from Erbil Polytechnic University (EPU) & Tishk International University (TIU).

**Postgraduate Supervision:**

1- MSc Research thesis "Effect of Sediment Transport on Friction Factor in Pipes" (Student name: Evan Augustin, 2001), Civil Engineering Department / College of Eng./ University of Salahaddin – Erbil.

2- MSc Research thesis "Water Crop Requirement for BAKRAJO area in Sulaimani Governorate" (Student name: Nawroz Mahmood Aziz, 2007), Irrigation Engineering Department / College of Eng./ University of Sulaimani).

**Evaluation committee of M.Sc. and Ph.D. Thesis:**

1- The effect of Rouse Number on estimation of average sediment transport concentration by semi empirical method (2009) /College of Eng./ University of Sulaimani- Sulaimani -Iraq

2- Flow characteristics through pipe culvert combined with broad crested weir (2010)/ College of Eng./ University of Salahaddin-Erbil-Iraq

3- The application of different infiltration models for determining infiltration characteristics of selected sites in Kerkuk.(2010) /College of Eng./ University of Salahaddin-Erbil-Iraq

4- Determination of spatially distributed hydrograph for Balisan valley using GIS and Remote sensing techniques (2010) /College of Eng./ University of Salahaddin-Erbil-Iraq

5- Assessing soil erosion sediment yield from Duhok dam watershed, (2010)/ College of Agriculture/ University of Duhok - Iraq.

6- Numerical Model for different geometrical shapes of side weir flows (2014) / Faculty of Eng. /University Duhok –Iraq.

7- Water Management Model for Selected Area in Greater Zab River Basin Using “WEAP Tool”, (2016) / Faculty of Engineering /University Duhok –Iraq.

8- Analysis of Hydraulic Performance of Bestora Dam Spillway,(2016) / College of Eng./ University of Salahaddin-Erbil-Iraq

9- The Role of Quality Management for Infrastructure Development Influencing the Environment in Erbil City, 2016 / College of Eng./ University of Salahaddin-Erbil-Iraq.

10- Resulted Wastewater from Kourkosk Oil Refinery: Impact on water resources and treatment by adsorption added Biological, 2016 / College of Eng. / University of Salahaddin-Erbil-Iraq.

11- Hydraulic Behavior of Circular Crested Weir in Plan”, (2016) / Faculty of Eng. /University of Duhok

- 12- Treatment of Synthetic Wastewater using Activated Carbon Added to Biological Filtration Process, 2017 / College of Eng. / University of Salahaddin-Erbil-Iraq.
- 13- SPH Modeling of Shallow Water Flows. 2017/ Faculty of Eng. /University of Duhok.
- 14- SPH Simulation of Unsteady Flow over Broad Crested Weir, A New Open Boundary Treatment Method. 2018/ Faculty of Eng. /University of Duhok.
- 15- Performance Evaluation and Improvement of Ifraz-2 and Qandil Water Treatment Plant Units. September, 2019/ College of Engineering / University of Salahaddin-Erbil-Iraq.
- 16- Estimating of water content by Richards equation with support of HYDROS 2D. September, 2020/ College of Engineering / University of Salahaddin-Erbil-Iraq.
- 17- Analysis of Reasonable Methods of Estimating Aquifer Parameters from Single Well Surrounding Erbil. September, 2020/ College of Engineering / University of Salahaddin-Erbil-Iraq.
- 18- Evaluation of Impact of Daryan Dam on Sirwan River and Darbandikhan Dam. October, 2020/ College of Engineering / University of Sulaimani-Sulaimani-Iraq.
- 19- Assessment of rainfall-runoff for some selected watersheds within Erbil Governorate using SCS method in conjunction with GIS. May, 2021/ College of Agriculture/ University of Salahaddin-Erbil-Iraq.

**Published Researches:**

- 1- Study of Sediment Transport for Balakian and Rawanduz River (M.Sc. Thesis, 1991).
- 2- Faisal A. Daham, Ferzand K. Medhat, and Basil Y. Mustafa," Operator technique effect on determination values of liquid limit ", Zanko Journal of Salahaddin university/Erbil, Vol.3, No.1, 1993.
- 3- Basil Y. Mustafa," The application of four models for prediction of total sediment transport in rivers of northern Iraq ", Zanko Journal of Salahaddin university/Erbil, Vol.1, No.2, 1994.
- 4- Basil Y. Mustafa," Suspended Sediment concentration and water discharge relationship in Rivers of Northern Iraq", Third Scientific Conference of University of Salahaddin, June, 1997.
- 5- Basil Y. Mustafa, Faisal Daham, and Wali Ali " The quality evaluation of Erbil city ground water used for drinking and domestic purposes ", Zanko Journal of Salahaddin university/Erbil, Vol.10, No.1, 1998.
- 6- Basil Y. Mustafa and Shahin Sabir," Reuse of Erbil Sewerage for Irrigation Purposes ", First Scientific Research Conference of Brayati Center in cooperation with Salahaddin University, Erbil, Iraq, May, 2001.
- 7- Basil Y. Mustafa, and Evan Augustin " Effect of Sediment Transport on Friction Factor in Pipes ", Zanko Journal of Salahaddin university/Erbil, Vol.17, No.2, 2005.
- 8- Basil Y. Mustafa, Shahin Sabir, and Khalil Karim" Artificial Groundwater Recharge for Erbil Basin ", Zanko Journal of Salahaddin university/Erbil, Vol.9, No.1, 2007.
- 9- Basil Y. Mustafa," Flood discharge calculation for un gauged watersheds in Erbil Governorate ", Zanko Journal of Salahaddin university/Erbil, Vol.19, No.2, 2007.

<p>10- Basil Y. Mustafa and Iyed M. Eqab "Parameters effects on stability of projectile have both spin and fins", International Scientific Conference 5th International Mechanical Engineering Forum (IMEF2012) CZECH University of Life Sciences - Prague, Czech Republic, June, 2012.</p> <p>11- Basil Y. Mustafa, "Gomaspan Dam Catchment Area Runoff Volume Evaluation by SCS Method", Eurasian Journal of Science and Engineering (EAJSE) -Vol.3 No.2- Dec., 2017.</p> <p>12- Basil Y. Mustafa, Dr. Sarhang M. Husain, and Saud A. Hussien "Hydrological Study and Analysis for Proposed Sartik Dam, Part 1: Stream Flow Data Analysis &amp; Flood Discharge Calculation", Pure and Engineering Sciences - Journal of Duhok University, Vol.20-No.1, Jul., 2017.</p> <p>13- Basil Y. Mustafa, "Hydrological Study and Analysis for Proposed Sartik Dam, Part 2: Reservoir Characteristics, Simulation Model, and Flood Routing Calculations", Pure and Engineering Sciences - Journal of Duhok University, Vol.20-No.1, Jul., 2017.</p> <p>14- Sarhang M. Husain, Abdulla A. Abo, and Basil Y. Mustafa, "Validation of a Numerical Particle Based Method for Free Surface Flow Downstream of Sluice Gates", Zanko Journal of Salahaddin University- ZJPAS (2018) Vol.30(s1) s94-s104.</p> <p>15- Basil Y. Mustafa, "Hydrological Study and Analysis of Two Farm Dams in Erbil Governorate", Eurasian Journal of Science and Engineering (EAJSE) -Vol.3, No.3-June, 2018.</p> <p>16- Saud Ahmed, BASIL Y. Mustafa, FARZAND K.A. "Trend Analysis of Annual and Monthly Rainfall in Erbil City -Kurdistan Region-Iraq", Polytechnic Journal of Erbil Polytechnic University -Vol.9, No.2-November, 2019.</p> <p>17- Basil Y. Mustafa and Nawroz M. Aziz," Water Crop Requirement for BAKRAJO area in Sulaimaniya Governorate", Published in International Review of Civil Engineering (I.RE.C.E.), Vol. 11, No. 2, April, 2020. DOI: <a href="https://doi.org/10.15866/irece.v11i2.17378">https://doi.org/10.15866/irece.v11i2.17378</a></p>
<b>Published Books:</b>
<p>1- BASIL Y. Mustafa, "Hydrological Study and Design of Two Farm Dams in Erbil Governorate", LAP Lambert Academic Publishing, ISBN: 978-620-0-25354-5, Aug., 2019.</p>
<b>Computer and Software Skills:</b>
<p>1- Proficiency with Microsoft software's (Word, Excel, PowerPoint)</p> <p>2- Proficiency with Water cad, and Auto CAD Software's</p> <p>3- Advanced knowledge of statistical and numerical analyses using Mat lab, SPSS (v.10-15).</p>
<b>Memberships:</b>
<p>1- Member of Kurdistan Engineers Syndicate.</p> <p>2-Member of Iraqi Engineers Syndicate.</p> <p>3- Member of Kurdistan Teachers Union</p>