

CURRICULUM VITAE



Dr Md Rowshon Kamal

Department of Biological and Agricultural Engineering
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Education

1. Ph.D. Irrigation and Water Resources, 2006, Universiti Putra Malaysia
2. M.S. Irrigation Engineering, 2000, Universiti Putra Malaysia
3. BSc. Agril. Engineering 1996, Bangladesh Agricultural University

Areas of Interest

1. Irrigation and Drainage Engineering
2. Modeling and Simulation of Water Resources Systems
3. Groundwater Engineering
3. Hydraulic Engineering
4. Climate Change Impacts
5. GIS Modeling in Irrigation and Water Resources

Professional Qualification/Membership/Affiliation

1. Member, Institute of Engineers of Bangladesh (IEB), 2003 – To date
2. Member, Society for Economic and Environmental Development (SEED), Bangladesh, 2010 – To date
3. Member, MANCID (Malaysian National Committee on Irrigation and Drainage), 2010 – To date
4. Member, ASABE (American Society of Agricultural Engineering), 2012 – To date
5. Member, MSAE (Malaysian Society of Agricultural Engineering), 2014 – To date

Appointments

Position	Duration
1. Senior Lecturer Department of Biological and Agricultural Engineering Universiti Putra Malaysia	April 2012 - To Date
2. Senior Lecturer Department of Civil Engineering, Linton University College, Malaysia	June 2010 - April 2012
3. Postdoctoral Researcher Department of Biological and Agricultural Engineering Universiti Putra Malaysia	November 2007- May 2010
4. Research Fellow Hydrology and Water Resources Laboratory, National Institute of Rural Engineering (NIRE), Tsukuba, Japan	June 2006 - April 2007

Honours and Awards

1. University Grant Commission (UGC) Scholarship, Securing the Highest Marks in the B.Sc. Agricultural Engineering Examination, The Government of the People's Republic of Bangladesh, 1996
2. University Prize, The Best Student Award in the B.Sc. Agricultural Engineering Examination, Bangladesh Agricultural University (BAU), 1994
3. Rampotnath Memorial Scholarship, Securing First Position in the B.Sc. Agricultural Engineering Examination in 1992 (4-Years) Bangladesh Agricultural University (BAU), 1999
4. Bangabandhu Fellowship, Fellowship for PhD Study, Ministry of Science and Technology (MOST), The Government of Bangladesh, 2002
5. Silver Medal, RIMIS-TK: Rice Irrigation Management Information System, University Putra Malaysia (UPM), 2006

Publication		
Journal		
1	Abdikani Abdullahi Mo'allim, M.K. Rowshon , H.A. Hadi, M.S.M. Amin, M. A. M. Zawawi, C.M. Hasfalina and W. Aimrun (2018). Assessment of Nutrient leaching in Flooded Paddy Rice Field Experiment Using Hydrus-1D. Water , 10 , 785 ; doi:10.3390/w10060785	Q2 1.832
2	Abdikani Abdullahi Mo'allim, M.K. Rowshon , H.A. Hadi, N.K.E.M. Yahaya, M. A. M. Zawawi, C.M. Hasfalina and W. Aimrun (2018). An Assessment of the Vertical Movement of Water in a Flooded Paddy Rice Field Experiment Using Hydrus-1D. Water , 10 , 783 ; doi:10.3390/w10050783.	Q2 1.832
3	Rowshon et al (2018) . 2D Modeling of water distribution for Wick Irrigation. <i>Pertanika Journal</i> . Accepted	Q3/Q4
4	Dlamini N.S., Rowshon M.K. , Amin, M.S.M., Mohd M.S.F., Fikri, A., and Lai S.H. (2017). Modeling Potential Impacts of Climate Change on Streamflow Using Projections of the 5th Assessment Report for the Bernam River Basin, Malaysia. Water 9(3): 226. Doi: 10.3390/w9030226	Q2 1.832
5.	Bashir, A.U., Rowshon M.K. , Dibal, J.M. and Kawuyo, U.A. (2017). Evaluation of suitability of tube well water for irrigation in Maiduguri Metropolitan, Borno State, Nigeria. <i>African Journal of Agricultural Research</i> , vol. 12(30): 2452-2460. Doi: 10.5897/AJAR2017.12533	Q3 0.24
6	Al-Ogaidi, A.A.M., Wayayok, A., Rowshon M.K. , and Abdullah, A.F. (2017). Influence of magnetized on soil water dynamics under drip irrigation systems. <i>Water. Agricultural Water Management</i> , 188: 70-77. Doi. org/10.1016/j.agwat.2016.11.001	Q1 2.85
6	Dlamini, N.S., Rowshon, M.K. , A. Fikhri, S.H. Lai, and M.S.F. Mohd (2017). Modelling the streamflow of a river basin using enhanced hydro-meteorological data in Malaysia. <i>Acta horticulturae Journal</i> . 1152. Doi:10.17660/ActaHortic.2017.1152.39	Q4 0.20
8	Fadhil, RMS., Rowshon M.K. , A. Desa. A, Fikhri, and W. Aimrun (2017). A stochastic Rainfall Generator Model for Simulation of Daily Rainfall events in Kurau Catchment: Model Testing. <i>Acta horticulturae Journal</i> ,1152 Doi:10.17660/ActaHortic.2017.1152.1	Q4 0.20

9	Jing Lin Ng, Samsuzana Abd Aziz, Yuk Feng Huang, Aimrun Wayayok, Rowshon M.K. (2017). Generation of a stochastic precipitation model for the tropical climate. <i>Theoretical and Applied Climatology</i> , 1-31. Doi: 10.1007/s00704-017-2202-x	Q1 2.64
10	Jing Lin Ng, Samsuzana Abd Aziz, Yuk Feng Huang, Aimrun Wayayok, Rowshon M.K. (2017). Analysis of annual Maximum rainfall in Kelantan. <i>Acta horticultrae Journal</i> 1152. Doi: 10.17660/ActaHortic.2017.1152.2	Q4 0.20
11	Atikah, J.R., Rowshon, M.K. , Dlamini, N.S., and Mohd, M.S.F. (2017). Simulation of streamflow for Sungai Ketil catchment using SWAT model. <i>Journal of Advanced Research Design</i> 28(1): 12-20.	Q4
12	Al-Ogaidi, A.A.M., Wayayok, A., Rowshon M.K. , and Abdullah, A.F. (2016). Modelling Soil Wetting Patterns under Drip Irrigation Using Hydrus3D and Comparison with Empirical Models. <i>Global J. of Engineering and Technology Review</i> . 1 (1) 17 – 25 (2016)	Q4
13	Abdikani, A.M. and Rowshon, M.K. (2016). Methods of Reducing the Fate and Transport of Nutrients from Agricultural Fields. <i>Asian Journal of Applied Science</i> , 4(5): 1186-1197. file:///C:/Users/User/Downloads/4161-14253-1-PB.pdf	Q4
14	Al-Ogaidi, A.A.M., Wayayok, A., Rowshon M.K. , and Abdullah, A.F. (2016). A Wetting patterns estimation under drip irrigation systems using an enhanced empirical model. <i>Agricultural Water Management</i> , 176: 203–213. Doi: 10.1016/j.agwat.2016.06.002	Q1 2.85
15	Abdikani, A.M. and Rowshon, M.K. , and Aimrun, W. (2016). Utilization of Global Circulation Models for Climate Change Impacts Assessments on Agricultural Water and Crop Production: A Review. <i>Asian Journal of Applied Science</i> , 2(4): 226-240.	Q4
16	Jing Lin Ng, Samsuzana Abd Aziz, Yuk Feng Huang, Aimrun Wayayok, Rowshon M.K. (2016). Stochastic modelling of seasonal and yearly rainfalls with low-frequency variability. <i>Stochastic Environment Research and Risk Assessment</i> . pp1-19. Doi:10.1007/s00477-016-1373-9	Q1/Q2 2.63
17	Dlamini N.S., Rowshon M.K. , Ujjwal Saha, Fikri, A., Lai, S.H. and Mohd M.S.F. (2015). Developing and Calibrating a Stochastic Rainfall Generator Model for Simulating Daily Rainfall by Markov Chain Approach. <i>Jurnal Teknologi</i> , 76(15): 13–19. Doi: http://dx.doi.org/10.11113/jt.v76.5946	Q4
18	Dlamini N.S., Rowshon M.K. , Fikri, A., Lai, S.H., Fikri, A. and Zubaidi, J. (2015). Simulation of Future Daily Rainfall Scenario using Stochastic Rainfall Generator for a Rice-Growing Irrigation Scheme in Malaysia. <i>Asian Journal of Applied Science</i> , 3(5): 492–506. http://www.ajouronline.com/index.php/AJAS/article/view/3183/1695	Q4
19	Al-Ogaidi, A.A.M., Wayayok, A., Rowshon M.K. , and Abdullah, A.F. (2015). A Modified Empirical Model for Estimating the Wetted Zone Dimensions under Drip Irrigation. <i>Jurnal Teknologi</i> , 76(15): 69–73. Doi: http://dx.doi.org/10.11113/jt.v76.5954	Q4
20	Jing, L.N., Aziz, S.A., Feng, H.Y., Wayayok, A., and Rowshon, M.K. (2015). Homogeneity Analysis of Rainfall in Kelantan, Malaysia. <i>Jurnal Teknologi</i> , 76(15): 1–6. http://dx.doi.org/10.11113/jt.v76.5944	Q4

21.	<p>Rowshon, M.K., Mojid, M.A., Amin, M.S.M., Yazid, M. and Azwan, M.Z. (2014). Improving Irrigation Water Delivery Performance of a Large-Scale Rice Irrigation Scheme. <i>Irrigation and Drainage Engineering</i>, American Society of Civil Engineering (ASCE), 140(8): 04014027-1-13.</p> <p>Doi:10.1061/(ASCE)IR.1943-4774.0000747</p>	<p>Q1/Q2 1.98</p>
22	<p>Rowshon M.K., Amin M.S.M., Mojid, M.A. and Yaji, M. (2014). Estimated Evapotranspiration of Ric-based on Pan Evaporation as a Surrogate to Lysimeter Measurement. <i>Paddy and Water Environment</i>, 12(1): 35-41.</p> <p>Doi: 10.1007/s10333-013-0356-4</p>	<p>Q1/Q2 0.92</p>
23	<p>Rowshon, M.K., Mbaruk M.M., Marriott, M.J., Amin, M.S.M. Ahsan A. and Loh, E.W.K. (2014). Geospatial Water Quality Assessment System for the Sungai Buloh River Basin in Malaysia. <i>Int. Journal of Water</i>. 8(4): 401-421.</p> <p>Doi: 10.1504/IJW.2014.065795</p>	<p>Q2 0.25</p>
24	<p>Bala, B.K., Arshad, F.M., Alias, E.F., Sidique, S.F., Noh, Rowshon, M.K., Islam, Q.M.M. and Islam, M.M. (2014). Sustainable Exploitation of Hilsa Fish (<i>Tenulosailisha</i>) Population in Bangladesh: Modeling and Policy Implications. <i>Ecological Modelling</i>. 283(1): 19-30.</p> <p>Doi: 10.1016/j.ecolmodel.2014.03.013</p>	<p>Q1 2.36</p>
25	<p>Maina, M.M, Amin M.S.M, Rowshon, M.K., Aimrun, W., Abd Aziz, S. and Yazid, M. (2014). Effects of Crop Evapotranspiration Estimation Techniques and Weather Parameters on Rice Crop Water Requirement. <i>Australian Journal of Crop Science</i>, 8(4): 495-501.</p> <p>https://www.highbeam.com/doc/1P3-3330546181.html</p>	<p>Q2 0.90</p>
26	<p>Maina, M.M., Amin, M.S.M., Rowshon, M.K., Aimrun, W., Abd Aziz, S. and M. Yazid (2014). The Water Balance Model and Shallow Water Table Contribution in Irrigated Lowland Rice in Tanjung Karang Irrigation Scheme in Malaysia. <i>Philipp Agric. Scientist</i>. 97(3): 252-256.</p> <p>http://www.pas-uplbca.edu.ph/article.php?id=446</p>	<p>Q4</p>
27	<p>Rowshon, M.K., Amin M.S.M. and Shariff A.R.M. (2012). Geospatial Water Productivity Index (WPI) for Rice. <i>Pertanika J. of Science & Technology</i>. 20(2):381–399.</p> <p>Doi: 10.1504/IJW.2014.065795</p>	<p>Q4</p>
28	<p>Rowshon, M.K., Amin, M.S.M., and Shariff, A.R.M. (2011). GIS User-Interface Based Irrigation Delivery Performance Assessment: A Case Study for Tanjung Karang Rice Irrigation Scheme in Malaysia. <i>Irrigation and Drainage Systems</i>, 25(1): 97-120.</p> <p>Doi: 10.1007/s10795-011-9115-0</p>	<p>Q2 0.91</p>
29	<p>Rowshon, M.K. and Amin, M.S.M. (2010). GIS-based Irrigation Water Management for Precision Farming of Rice. <i>International Journal of Agricultural & Biological Engineering</i>, 3(3): 27-35.</p> <p>Doi: 10.3965/j.issn.1934-6344.2010.01.027-03</p>	<p>Q2 0.852</p>
30	<p>Rowshon, M.K., Amin, M.S.M., Lee, T.S., and Shariff, A.R.M. (2009). GIS-integrated Rice Irrigation Management System for a River-fed Scheme. <i>Water Resources Management</i>. 23 (14): 2841-2866.</p> <p>Doi: 10.1007/s11269-009-9412-7</p>	<p>Q1 2.85</p>

31	Rowshon, M.K. , Amin, M.S.M., Hassan, S.M.H., Shariff, A.R.M., and Lee, T.S. (2006). New Performance Indicators for Rice-based Irrigation Systems. <i>Paddy and Water Environment</i> , 4(2):71-79. Doi: 10.1007/s10333-006-0034-x	Q2 0.92
32	Rowshon, M.K. , Amin, M.S.M., Shariff, A.R.M. and Lee, T.S. (2004). Ponding Water Index (PWI): A Methodology for Monitoring Daily Irrigation Supply for Rice. <i>Applied Irrigation Science</i> , 39(2):283-292.	Q4
33	Rowshon, M.K. , Kowk, C.Y. and Lee, T.S. (2003). GIS-Based Scheduling and Monitoring of Irrigation Delivery for Rice Irrigation System - Part I: Scheduling. <i>Agricultural Water Management</i> , 62(2): 105-116. Doi:10.1016/S0378-3774(03)00092-1	Q1 2.85
34	Rowshon, M.K. , Kwok, C.Y. and Lee, T.S. (2003). GIS-Based Scheduling and Monitoring of Irrigation Delivery for Rice Irrigation System- Part II: Monitoring. <i>Agricultural Water Management</i> , 62(2):117-126. Doi:10.1016/S0378-3774(03)00093-3	Q1 2.85

Conference Proceedings	
	<ol style="list-style-type: none"> Rowshon M.K., Dlamini N.S and Amin, M.S.M. (2016). Development of climate-smart Decision Support System for Water Allocation at Paddy Dominant Agro-hydrological Watershed. The 21th MANCID Annual Conference (MANCO) with the theme of “Modernizing Irrigation and Drainage for a Green Revolution. The 9 - 11 October 2016 at Kuala Terengganu, Malaysia [Invited Speaker]. Rowshon M.K., Dlamini N.S and Amin, M.S.M. (2015).Climate-Smart Rainfall Generator for Simulation of Daily Rainfall Scenario for Rice Irrigation Scheme in Malaysia. The 20th MANCID Annual Conference (MANCO) with the theme of “WATER MANAGEMENT IN A CHANGING WORLD. The 4 - 6 October 2015 at Resort World Langkawi, Malaysia [Invited Speaker]. Wan, M.W.N. and Rowshon, M.K. (2014). Water Security for Smallholder Irrigation Systems. MANCID Annual Meeting and Conference, 12-14 October 2014, held at Grand Paragon Hotel, Johor Bahru, Malaysia [Invited Speaker]. Hadi, H.A. and Rowshon, M.K. (2015). Hydraulic Characteristics of Capillary Wick Irrigation System. The 7th International Conference on Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context, 7th ICSAFEI2015 held at the Faculty of Engineering, Universiti Putra Malaysia from 25 to 27 August 2015. Dlamini, N.S., Rowshon, M.K., Lai, S.H., Fikhri, A. and Ujjwal S. (2015). Developing and Calibrating a stochastic Rainfall Generator Model for Irrigation Scheduling. PAWEES-INWEPF Joint International Conference 19-21, 2015 held at Universiti Putra Malaysia <p>Rowshon, M.K. (2010). Building an International Research Agenda on Doctoral Education. Attended in the international conference and seminars for postgraduate supervisors the 2nd International Doctoral Education Research Network (IDERN) held from 19 – 23 April, 2010 at the Universiti Putra Malaysia (UPM).</p> <ol style="list-style-type: none"> Rowshon, M.K. and Amin, M.S.M. (2012)..Water Quality Pollution Risk Assessment Tool for a River Basin. International Conference on Agricultural and Food Engineering for Life (Cafei2012) held at Putrajaya 26-28 November 2012. Rowshon, M.K., Amin, M.S.M. and Shariff, A.R.M. (2010). Geospatial Water Productivity Index (WPI) for Rice. Proceedings of The World Engineering Congress (WEC 2010) held on 02 – 05 August, 2010, Kuching, Sarawak, Malaysia.

	<p>9. Amin, M.S.M., Deepak, T.J. and Rowshon, M.K. (2009)..Web-based Paddy Irrigation Productivity Assessment (WEBPIPA). 5th Asian Regional Conference of ICID, 6-11 December, New Delhi, India.</p> <p>10. Amin, M.S.M., Rowshon, M.K. and Masumoto, T. (2006). Rice Irrigation Management information System for Tanjung Karang Scheme in Malaysia. The 3rd Asian Regional Conference “Transforming Irrigated Agriculture into an Efficient Engine of Growth” in 57 International Executive Council Meeting of ICID held on 10-16 September, PWTC, Kuala Lumpur, Malaysia</p> <p>11. Rowshon, M.K., Amin, M.S.M. and Shariff, A.R.M. (2005). New Performance Indicators and GIS for Monitoring Rice Irrigation Systems. The proceedings of the MTREM International Conference, Asian Institute of Technology, Thailand, pp. 627-635, June.</p> <p>12. Rowshon, M.K. and Amin, M.S.M. (2003). GIS-Based Irrigation Water Management for Precision Farming of Rice. Proceeding Conference of Bio Engineering Advanced Technology Congress 2003. Meeting Challenges in Globalization through Advanced Technology. Putrajaya Marriott Hotel, IOI Resort, Organized by Institute of Advanced Technology, University Putra Malaysia, pp.116-123.</p> <p>13. Rowshon, M.K., Karim, M.M. and Kwok, C.Y. (2000). GIS Application for Monitoring Groundwater Arsenic Contamination in Bangladesh. The International Symposium by the Int. Association for Hydraulic Engineering & Research (IAHR), 8-10, August, 2000, Japan.</p> <p>14. Rowshon, M.K., Karim, M.M. and Kwok, C.Y. (2000). GIS Application for Monitoring Groundwater Arsenic Contamination in Bangladesh. The International Association for Hydraulic Engineering and Research (IAHR), pp. 55-60, Springer Publication.</p> <p>15. Rowshon M.K., Dlamini, N.S. and Amin M.S.M. (2017) Climate-smart DSS for irrigation and water resources management for rice production. Managing Water for Sustainable Development- Learning from the Past for the Future. The paper will be presented in the 37th IAHR World Congress, 13-18 August, 2017, Putra World Trade Centre, Kuala Lumpur, Malaysia. Springer Publication</p>
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Books and Chapters	
Books	<p>1. Modeling of Wick Irrigation System. LAMBERT Academic Publishing. 2015, 141 pp Authors: Hadi Hama Aziz and Md Rowshon Kamal ISBN: 3659908622</p> <p>2. Impacts of Soil Compaction in Subsurface Drip Irrigation Systems. LAMBERT Academic Publishing 2016, 209 pp. Authors: Md Rowshon Kamal, Mohammed Isa, Hadi Hama Aziz ISBN: 3659945951 Authors: Md Rowshon Kamal, Mohammed Isa, Hadi Hama Aziz</p>
Chapter in book	<p>1. Amin, M.S.M., Rowshon, M.K., and Aimrun, W. (2011). Paddy Water Management for Precision Farming of Rice, Current Issues of Water Management, UliUhlig (Ed.), InTech Publication.</p> <p>2. DID Manual, Volume V: Irrigation and Agricultural Drainage, Department of Irrigation and Drainage (Jabatan Pengairan Dan Saliran), Ministry of Agriculture (MOA), The Government of Malaysia. 1171 Pages. Year of Publication: 2009 Chapter 1: Malaysian Perspective, Pages: 1-1 to 1-15 Mohd Amin Mohd Soom and Md Rowshon Kamal Chapter 3: Systems and Technology, Pages: 3-1 to 3-55 Md Rowshon Kamal Chapter 4: Planning Process, Pages: 4-1 to 4-26 Mohd Amin Mohd Soom and Md Rowshon Kamal Chapter 5: Water Demand Estimation, Pages: 5-1 to 1-32 Md Rowshon Kamal Chapter 7: Computer Applications, Pages: 7-1 to 1-21 Md Rowshon Kamal Chapter 8: Water Intake Facilities, Pages: 81 to 8-53 Md Rowshon Kamal Chapter 11: Microirrigation Systems, Pages: 11-1 to 11-99 Md Rowshon Kamal</p>

	Chapter 12: Sprinkler Irrigation Systems, Pages: 12-1 to 12-46 Md Rowshon Kamal Chapter 14: Subsurface Agricultural Drainage Systems, Pages: 14-1 to 14-15 Md Rowshon Kamal
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Development and Consultancy	
Computer software	1. RIMIS- GIS-based DSS Rice Irrigation Management Information System 2. Climate-smart DSS for Rice Irrigation Management Information System
Consultancy	1. DID Manual, Volume 5 Irrigation and Agricultural Drainage, Ministry of Agriculture, Malaysia. RM45,000/ 2. Worked as Irrigation Engineer to Study Flood Mitigation Role by Paddy. Baro Tok Jiring/Batu Rakit Drainage and Flood Mitigation Master Plan, Terengganu. RM16,000/ 3. Detailed design and rehabilitation of Machang Irrigation Scheme, Kelantan. RM20,000/ 4. Training Program for Sultan Qabush University. RM1,000/ 5. Worked as Irrigation Engineer to carry out the detailed design and rehabilitation of Paya Peda Irrigation Scheme in the northern district of Besut in Terengganu State. RM30,000/- On going

Research Grants					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
GP-IPS 2017 9557200	Development of Solute Transport Model for Maize Production in Tropical Climate	Project Leader	2017	PutraGrant	On going
GP-IPS- 2017 9524800	Modeling Fertilizers Losses in Paddy Field using 2D Solutes Transport Model	Project Leader	2017-2018	PutraGrant	On going
GP-IPS- 2017 9592000	Development of Climate-Smart Irrigation Scheduling for IADA KETARA Irrigation Scheme	Project Leader	2018-2019	PutraGrant	On going
GP-IBT- 2013 (9406300)	Development and Application of Climate-smart DSS for On-farm Real-time Irrigation Scheduling and Water Allocation Strategies in paddy.	Project Leader	2013-2015	PutraGrant	Completed
FRGS 2014 (5524362)	Dry Spells Analysis for Water Shortage and Allocation Scenarios for Paddy with Climate Change.	Project Leader	2014-2016	FRGS MOHE	Completed
GP-IPS- 2013 9399805	Impacts of Soil Compaction on Emitter Discharges in Sub-Surface Drip Irrigation System (SDI).	Project Leader	2013-2014	PutraGrant	Completed
SF2026 (5450774)	Modeling Optimum Fertilizer Use and Drainage Water Reuse from Two-Dimensional Water Flow and Solute Transport in Rice Production System	Project Leader	2015-2017	eScience MOSTI	Completed
GP-IBT- 2013 (9411100)	Development and Application of Robust Self Shut-off Semi-solid Sprinklers System for Improving Irrigation Performance	Project Leader	2013-2016	PutraGrant	Completed
GP-IPS- 2015 (9446200)	Ensemble Statistical Downscaling of GCM Simulations for Impact Assessment on Irrigation Supply	Project Leader	2015-2017	PutraGrant	Completed
0942-RU (91487)	Development of a Geospatial Irrigation Water Management System Integrated with Radar-Derived Rainfall for Rice Granary	Member	2012	RUGS	Completed

GP-IPS 2015 9447700	Modeling od Soil Wetting Patterns under Drip Irrigation in Layered Soil Using Magnetized Water.	Member	2015-2016	PutraGrant	Completed
GP-IPS 2015 9452100	Development of a Method to Estimate Rainfall Depth from Doppler Weather Radar Data for Flood Early Warning	Member	2015-2017	PutraGrant	Completed
UM Grant RU001- 2017B	Development of a Multi-criteria Decision Support System (MCDSS) for Drought and flood Management in Malaysia using Novel Approaches.	Member	2017-2020	UMGrant	On Going

Taught Courses (until Semester 2, 2017/2018)

Course Code	Name	Level	Institute	Semester	Year/ Duration	Credit hours /Course	Total Credits
EAB3303	Hydrology	Undergraduate	UPM	2 nd	2018	3	3
EAB3308	Hydraulics and Hydrology	Undergraduate	UPM	3 rd	2017	3	3
EAB3306	Irrigation and Drainage Engineering	Undergraduate	UPM	6 th	2016	3	6
EAB4310	Water Quality for Agriculture	Undergraduate	UPM	8 th	2017	3	3
ECC3001	Engineering Mathematics I	Undergraduate	UPM	1 st	2012- 2016	3	15
ECC3002	Engineering Mathematics II	Undergraduate	UPM	2 nd	2014- 2017	3	9
EAB3206	Biosystem Environment	Undergraduate	UPM	1 st	2012- 2015	3	9
EAB4308	Soil and Water Conservation Engineering	Undergraduate	UPM	8 th	2012- 2017	3	9
EAB4302	Applied Hydrology	Undergraduate	UPM	8 th	2009	3	3
EAB4220	Soil Water Plant Relationship	MS	UPM	-	2009	3	3
EAB5300	Agricultural Water Management	MS	UPM	-	2012- 2016	3	6
EAB5308	Pressurized Irrigation Systems	MS	UPM	-	2012- 2017	3	6
EAB5314	Soil Erosion and Control	MS	UPM	-	2012- 2017	3	6
EAB5304	Hydraulic Engineering Systems	MS	UPM	-	2015- 2016	3	6
EAB5320	Water Resources Systems	MS	UPM	-	2015- 2016	3	3

Supervision of Postgraduate Students

Chairman of the Supervisory Committee of PhD Students				
No.	Name	Title	Status	Institute
1.	Nkululeko S. Dlamini (GS36579)	Modeling Climate-smart DSS for Real-time Optimal Irrigation scheduling and Water Allocation for a Rice Irrigation Scheme	Completed August 2017.	UPM

Supervision of Postgraduate Students

Chairman of the Supervisory Committee of PhD Students				
No.	Name	Title	Status	Institute
2.	Hadi Galavi (GS37541)	Uncertainty analysis of Langat River streamflow projections using impact-based multi-model ensemble approaches	Completed Dec 2015	UPM
3.	Ali Umar Bashir	Modeling Effects of Irrigation Methods on the Performance of Maize Cultivars in a Semi-arid Environment.	Completed VIVA Dec 2017	UPM
4.	Abdurazag Mustafa	Strategies for Maintaining Sustainable Irrigated Crop Root Zones with Saline-Sodic Water.	Ongoing	Writing Thesis
5.	Rasha Mohammedsemi Fadhil	Modeling Hydrologic Uncertainty in Reservoir Storage and Water Management under Climate Change Impacts	Completed VIVA May 2018	UPM
6	Abdikani Abdullahi Mo'allim	Modeling Optimum Fertilizer Use and Drainage Water Reuse from Two-Dimensional Water Flow and Solute	Completed VIVA June 2018	UPM
8	Abdus Salam	Modeling Groundwater Availability and Recharge Pattern under Climate Change Impact for Sustainable Use in Malaysia	Ongoing	Preparing for Comprehensive Exam
9	Mazhar Iqbal	Development of Solute Transport Model for Maize Production Systems	Ongoing	Field Experiment
10	Habibu	Agro-hydrological Model for Effective Water Allocation for a Irrigation System at Bernam River Basin	Ongoing	Started September 2017

Supervisor for MS Students with Thesis				
No.	Name	Title	Status	Institute
1.	Fatima Tijjani Aliyu	Flood Frequency Analysis for Gauged River Station in the Bernam River Basin	Completed Apr 2012	Linton UC (Franchise Degree of UEL, UK)
2	Mohammed Bammami Isa	Impacts of Soil Compaction on Emitter Performance in Sub-Surface Drip Irrigation System	Completed May 2015	UPM
3	Hadi Hama Aziz Muhammed	Modeling of Capillary Wick Irrigation System for Potted Plant and Small-scale Plantation.	Completed Sep 2015	UPM
4	Javed Shaheen	Development of Scheduling Wick Irrigation for Greenhouse Crop Production	Completed Aug 2017	UPM
5	Atikah Jetty	Development, Calibration and Simulation of SWAT Model for Streamflow at MUDA Basin	Ongoing	UPM
6	Odoemena Kenneth Ikanna	Drought Analysis and El-Nino Prediction for Rice Production	Ongoing	UPM

MS without Thesis (Main Supervisor)				
No.	Name	Title	Status	
1.	Mohammad Fazli Sardi (GS35549)	Assessment of Landslide Disaster Management Operation and Rescue Operation	Completed 2014	
2	Nor Hidayah Mohammad	Rainwater Harvesting System for Use for Urban	Completed	

MS without Thesis (Main Supervisor)			
No.	Name	Title	Status
		Agriculture in Malaysia	2016

Member of the Supervisory Committee of PhD Students				
No.	Name	Title	Completed	Institute
1.	Maina Mohammed Mamodu	Web Geospatial Water Management Decision Support Systems for Tanjung Karang Rice Irrigation Scheme, Malaysia	April 2014	UPM
2.	Ahmed Ali Mohammed	Modeling Wetting Patterns in Various Soil Profiles under Drip Irrigation System using Plain and Magnetized Water	March 2014	UPM
3	Jing Lin Ng	Development of a Stochastic Rainfall Generator and its Uncertainty Quantification for the Kelantan River Basin	January 2018	UPM
4	Talal Ahmad Basheer	Simulation of Dam Breaks for Mosul Dam in Iraq	June 2018	UPM

Member of the Supervisory Committee MS Students with Thesis				
No.	Name	Title	Completed	Institute
1.	Shazelia Ashikin bt Sulaiman	Utilization of Artificial Aquifer Physical Model to Aid Technical Learning of Groundwater Hydrology	May 2015	UPM

Examiner for Postgraduate Students				
No.	Name	Level	Title	Month/Year
1.	Wan 'Alia Husna bt Wan Abdullah	MS-UM	Impacts of System of Rice Intensification Farming to soil and Water: A Case Study on Marginal Soil	May 2015
2.	Waleed M. Abdulwahid	MS-UPM	Landscape Vulnerability and Risk Assessment for Multi-Hazard Scenarios using Airborne Land Scanning Data (LIDAR)	April 2016
3	Mena Ahmed	PhD UPM-CE	Impacts of Spur Dikes on Hydraulics and Morphology of Anabranching Channels	January 2018
4	Nor Farhani binti Yusof	MS-UPM	Evaluation of Geological Formation for Potential Groundwater Aquifer Potential by Integrated Geophysical Techniques	April 2018
5	Nur Hidayu binti Abu Hassan	MS-UPM	Development of Conceptual Hydrogeological Model for Groundwater Modeling Application at Selangor Basin	April 2018
6	Noorellimia Mat Toridi	PhD UPM-CE	Hydrogeological Implication Framework for Sustainable Groundwater Extraction	May 2018
7	Ahmed Mohammed Sami Ali Al-Janabi	PhD UPM-CE	Modeling Infiltration Capacity of Permeable Channels under Static and Dynamic Hydraulic Conditions	June 2018

Trainer		
Role	Title of the Project	Institute/Year
Trainer	11 th International Course on Irrigation System Management, DID, Ampang, Kuala Lumpur	DID/2007
Trainer	12 th International Course on Irrigation System Management	DID/2008
Project Investigator	Practical Training Courses on Deep Tubewell (DTW), Drilling, Design and Construction of DTW at BAU Campus	BAU/1995
Trainer	GIS Training (Level – I) and GPS and GIS Course	2001 & 2002

Review and Editorial Services

No.	Title of the Journal	Publisher
1.	Water Resources Management	Springer
2.	Irrigation and Drainage Engineering	ASCE
3.	Agricultural Water Management	Elsevier
4.	Pertanika Science and Technology Journal	UPM
5.	Special Issue: Solution for Sustainable Water and Environmental Management,	UTM Press
6.	Member, Editorial Committee on Soil and Water Engineering, CAFEi 2012, CAFEi 2014 and CAFEi 2016, Kuala Lumpur	UPM
7.	Member, Editorial Committee on Modernization of Irrigation and Drainage Schemes, PAWEES-INWEPF Joint International Conference, 2015	PAWEES
8.	Member, Editorial Committee on Soil and Water Engineering, CAFEi 2018.	UPM

Summary of Research, Publication and Supervision Data

Academic Position : <u>Senior Lecturer (Equivalent to Assistant Professor)</u> Name : <u>Dr Md Rowshon Kamal</u> Faculty/Organization : <u>Faculty of Engineering, Universiti Putra Malaysia</u> Field of Research : <u>Irrigation and Drainage, Hydrology and Water Resources, GIS and Climate-smart DSS</u>																		
H-INDEX	Research Grant (Numbers)		Journal Publication (Numbers)			Other Publications (Numbers)					Supervision of Students (Numbers)							
	Head Research Grant	Member Research Grant	CITED JOURNALS	NON-CITED JOURNALS	Book	Chapters in Book	MODULE/MONOGRAPH	PROCEEDINGS	Presenting Papers in International Conference	CONSULTANCY	PHD		MASTER					
7	9 Completed 7	2	40	2	2	2	Nil	3	> 30	5	Chairman	Graduated	5	Chairman	Graduated	5		
												ON-GOING	7*		ON-GOING	2		
												Member	Graduated		4	Member	Graduated	2
													ON-GOING		3		ON-GOING	2

Updated July 2018