



MD. MOHSIN UDDIN, Ph.D

Professor (Mathematics and Mathematics Education)
School of Education (SoE)

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Area of Specialization and Research Interest

Mathematics & Science Education, Technology and Vocational Education, Teacher Education, Teacher Professional Growth, Ethnomathematics, Curriculum Development, Text Materials Development and Open & Distance Learning (ODL).

Biography

Dr. Mohsin Uddin is working as a Professor in the area of Mathematics & Mathematics Education, in the School of Education, Bangladesh Open University. He has also served as the Director of the UGC-World Bank led project 'Institutional Quality Assurance Cell (IQAC), BOU'. During his works at the BOU, has developed many self-learning modules and published research articles in the national and international journals. He has also worked and contributed to national textbook composition under NCTB (National Curriculum and Textbook Board) in Mathematics books. In addition to his academic works, he has served as the Advisor of Training and Research Division, BOU. He did his B.Sc (Honours) in Mathematics and M.Sc in Applied Mathematics from the University of Dhaka, Bangladesh. He also did his Master of Education & Ph.D in Mathematics Education from Hiroshima University, Japan, under 'MONBUKAGAKUSHO' Scholarship (Japan Government Scholar). He provided consultancies in the field of education for UNICEF, ADB, JICA and World Bank.

Personal Information

Date of Birth : 13th September 1970
Sex : Male
Nationality : Bangladeshi
Primary Language Spoken : Bangla
Place of Birth : Amtali, Barguna
Father's Name : Md. A Khaleque Tang
Mother's Name : Late Nurjahan Begum
Marital Status : Married
Present and Contact Address : Professor, School of Education,
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Permanent Address : Vill: Kalipur, Post: Kukua, Thana: Amtali
Dist: Barguna.

Educational Qualification

Year	Degree	Institution	Division/Class
2007	Ph. D	Division of Educational Development Studies, Hiroshima University, Japan	Awarded
2004	Master of Education	Division of Educational Development Studies, Hiroshima University, Japan	Awarded
1993	M. Sc. in Applied Mathematics	Department of Mathematics, University of Dhaka, Bangladesh	First Class
1992	B. Sc. (Honours) in Mathematics	Department of Mathematics, University of Dhaka, Bangladesh	First Class
1988	H. S. C. (Science Group)	Amtali Degree College Amtali, Barguna	First Division
1986	S. S. C. (Science Group)	Chunakhali High School, Amtali, Barguna	First Division

Professional Experiences

Employer	School of Education, Bangladesh Open University
Professor	From 18 May 2013 to Present
Associate Professor	From 22 May 2010 to 17 May, 2013
Assistant Professor	From 16 September 2004 to 21 May, 2010
Lecturer	From 06 January 1998 to 15 September 2004
Description of Duties	<ul style="list-style-type: none"> ▪ Delivering lectures in the area of Mathematics & Mathematics Education, Educational Planning and Evaluation & Research using electronic media ▪ Designing and developing curriculum ▪ Conducting research ▪ Constructing questionnaire ▪ Preparing study materials for students ▪ Planning classroom materials and activities ▪ Advising and counseling students ▪ Supervising M.Phil and Ph.D students. ▪ Invigilating examinations ▪ Evaluating answer scripts ▪ Conducting seminars and presenting research papers in conferences ▪ Performing responsibilities for Education programs of the university (e.g. M.Phil & Ph.D, Bachelor of Education (B. Ed) and Master of Education (M. Ed)).

Employer	Training and Research Division, Bangladesh Open University
Advisor (Additional Charge)	From 20 December, 2010 to 29 March, 2014
Description of Duties	<ul style="list-style-type: none"> ▪ Organizing the necessary training and making research & training schedules of the employee to develop the skilled manpower of the organization.
Employer	Institutional Quality Assurance Cell (IQAC), Bangladesh Open University
Director, Institutional Quality Assurance Cell (IQAC), BOU	From January 2017 to December 2018
Description of Duties	<ul style="list-style-type: none"> ▪ Implementing the program activities of the IQAC as delineated in the IQAC Operations Manual to carry out the QA activities. ▪ Mobilizing the IQAC staff and logistics. ▪ As the Chief Executive Officer (CEO) managing and operating leadership of IQAC functions. ▪ Reporting IQAC activities and advancement of work periodically to university authority. ▪ Maintaining liaison with the QAU and the university in respect of QA activities.
Employer	University of Dhaka, Institute of Education and Research (IER)
Lecturer (part-time)	From July 2007 to December 2007
Description of Duties	<ul style="list-style-type: none"> ▪ Delivering lectures in mathematics courses (Mathematics-1 & Mathematics-2)
Employer	Graduate School for International Development and Cooperation (IDEC), Hiroshima University, Japan
Research Assistant:	From May 2004 to March 2006
‘Mathematics Education and Research’ (Graduate Level)	
Description of Duties	<ul style="list-style-type: none"> ▪ Assisting Professor in preparing teaching activities for Mathematics Education classes, assisting in handling classroom activities, checking students' classroom works, assisting in research instrument preparation and data collection, conducting collaborative research study and composing research papers, assisting in invigilation in examinations.

Employer	Graduate School for International Development and Cooperation (IDEC), Hiroshima University, Japan
Teaching Assistant: 'Mathematics Education and Research' (Graduate Level)	From May 2005 to February 2006
Description of Duties	<ul style="list-style-type: none"> ▪ Assisting Professor in preparing teaching activities for Mathematics Education classes, assisting in handling classroom activities, checking students' classroom works, assisting in research instrument preparation and data collection, conducting collaborative research study and composing research papers, assisting in invigilation in examinations.
Employer	International Research Project in seven countries (Bangladesh, Japan, China, Thailand, Myanmar, Zambia & Ghana)
Scientific Researcher: (Team Leader of Bangladesh), Scientific Research Fund from the Japan Foundation for Promotion of Science	From January 2004 to December 2006
Description of Duties	<ul style="list-style-type: none"> ▪ Collecting and analyzing the data from people's at the primary level from above mention countries and writing the yearly report for mathematics subject. ▪ Collecting and analyzing the data from mathematics teacher at the primary level from above mention countries and writing the yearly report for mathematics course. ▪ Organizing workshop about report.
Employer	National Curriculum and Text Book Board (NCTB), Dhaka.
Member of a National (NCTB) Curriculum Committee	From 2011 to 2012 and 2019
Description of Duties	<ul style="list-style-type: none"> ▪ Preparing Secondary School Certificate (SSC), Junior Secondary Certificate (JSC), Primary Education Completion (PEC) Course Curriculum. ▪ Designing & developing curriculum and writing books for the primary school students.

Employer	School of Education, Bangladesh Open University
Member of a School of Education Curriculum Committee	From 1998 to Present
Description of Duties	<ul style="list-style-type: none"> ▪ Delivering Master of education (M.Ed), Bachelor of Education (B.Ed) Course through distance mode. ▪ Designing & developing curriculum and prepare study materials for the students.

Countries of Work Experience

Bangladesh, Japan

Published Journal Articles/Research Books/Modules

- Uddin, M. M. (2004), Effectiveness of In-service Teachers' Training Program for Primary Mathematics in Bangladesh: A Case Study of Training by The Primary Training Institutes (PTIs), *Japan Academic Society of Mathematics Education*, Vol. 10, pp. 185-196.
- Uddin, M. M. (2006), The Impact of In-service Teacher Training by Primary Training Institutes in Bangladesh (1): Focusing on Subject Knowledge, Pedagogical Skills and Attitudes of Mathematics Teachers, *Japan Academic Society of Mathematics Education*, Vol. 12, pp. 201-214.
- Uddin, M. M. (2006), A Study on Primary School Pupils' Mathematics Performance and Teachers' Perception of Mathematics Lessons in Bangladesh, *Journal of Teacher Education*, School of Education, Bangladesh Open University, Vol. 4, pp. 66-92.
- Uddin, M. M. & Baba T. (2007), Analysis of Primary Mathematics in Bangladesh from Pupils' and Teachers Perspectives: Focusing on Fraction, *International Journal of Curriculum Development and Practice*, Vol. 9, pp. 37-53.
- Uddin, M. M. (2007), Effectiveness of PTIs' Training Program for Primary Mathematics in Bangladesh, Abstract of Ph. D. Dissertation, Published by Graduate School for International Development and Cooperation, Hiroshima University, Japan.
- Uddin, M. M. (2011), Examination System in Bangladesh and its Influence on Students and Teachers, *Journal of Research and Practice of International Cooperation in Science, Mathematics and Technology Education*, Vol. 3, pp. 38-52.
- Uddin, M. M. (2018), The Effect of In-service Teachers' Training Program on Subject Knowledge and Instructional Skills in Mathematics: A Case Study of PTIs' Training, *Journal of Teacher Education*, School of Education, Bangladesh Open University, Vol. 5, pp. 3-12.
- Uddin, M. M. (2021), Exploring Pedagogical Change of Primary Mathematics Teachers through In-service Training in Bangladesh, *Journal of Teacher Education*, School of Education, Bangladesh Open University, Vol. 7 (Under consideration).

- Uddin, M. M. (2012), *Effectiveness of PTIs' Training Program for Primary Mathematics in Bangladesh*. A research book published by SONGBED Publishing Company, Dhaka, Bangladesh.
- Uddin, M. M. et al. (2008), *Mathematics Teaching*, TS (Teaching Studies)-104, Learning Material, Module-1 & 3; A Course Book for Bachelor of Education (B. Ed.), Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2008), *Mathematics Teaching*, TS-104, Trainer Guide, Module-3; A Guide Book for Bachelor of Education (B. Ed.), Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2008), *Mathematics Teaching*, TS-104, Trainer Guide, Module-4 & 5; A Guide Book for Bachelor of Education (B. Ed.), Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2008), *Mathematics Teaching-1*, EDBN-1524, A Course Book for Bachelor of Education (B. Ed.), Bangladesh Open University, Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2008), *Secondary Education, Curriculum and Child Development-1*, EDBN-1313, A Course Book for Bachelor of Education (B. Ed.), Bangladesh Open University, Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2008), *Secondary Education, Curriculum and Child Development-2*, EDBN-1314, A Course Book for Bachelor of Education (B. Ed.), Bangladesh Open University, Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2009), *Mathematics Teaching-2*, EDBN-2524, A Course Book for Bachelor of Education (B. Ed.), Bangladesh Open University, Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2009), *Learning, Assessment and Reflective Practice-1*, EDBN-2315, A Course Book for Bachelor of Education (B. Ed.), Bangladesh Open University, Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2009), *Learning, Assessment and Reflective Practice-2*, EDBN-2316, A Course Book for Bachelor of Education (B. Ed.), Bangladesh Open University, Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2010), *Mathematics Teaching*, TS-104, Learning Material, Module-4 & 5; A Course Book for Bachelor of Education (B. Ed.), Secondary Teacher Training, published by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2010), *Mathematics Teaching*, TS-104, Trainer Guide, Module-1; A Guide Book for Bachelor of Education (B. Ed.), Secondary Teacher Training, published

- by Teaching Quality Improvement in Secondary Education Project, Ministry of Education, Government of Bangladesh.
- Uddin, M. M. et al. (2012), *Mathematics* (Subject Knowledge and Teaching Strategy). A Course Book for Diploma in Primary Education (DPED), published by The National Academy for Primary Education, Mymensingh, Government of Bangladesh.
- Uddin, M. M. et al. (2012), *Mathematics* (PTI Instructor Guide); Diploma in Primary Education (DPED), published by The National Academy for Primary Education, Mymensingh, Government of Bangladesh.
- Uddin, M. M. et al. (2012), *Elementary Mathematics* (Class One); published by The National Curriculum & Textbook Board (NCTB), Dhaka-1000, Government of Bangladesh.
- Uddin, M. M. et al. (2012), *Elementary Mathematics* (Class Two); published by The National Curriculum & Textbook Board (NCTB), Dhaka-1000, Government of Bangladesh.
- Uddin, M. M. et al. (2012), *Elementary Mathematics* (Class Three); published by The National Curriculum & Textbook Board (NCTB), Dhaka-1000, Government of Bangladesh.
- Uddin, M. M. et al. (2016), *Mathematics*, SSC Program, published by Open School, Bangladesh Open University.
- Uddin, M. M. et al. (2017), *Higher Mathematics*, SSC Program, published by Open School, Bangladesh Open University.
- Uddin, M. M. et al. (2018), *Higher Mathematics (Second Part)*, HSC Program, published by Open School, Bangladesh Open University.

Published Research Reports

- Uddin, M. M. et al. (2005a), Research Leader Takuya Baba, International Comparative Studies on Influence of Teachers' Views about Education on Mathematics Lessons at Primary Schools, 2004-2006 Scientific Research Fund International Research (B) (2) No. 16402045, **First Year Report**, pp. 34-41.
- Uddin, M. M. et al. (2005b), Research Leader Hideki Iwasaki, Empirical Study on the Evaluation Method for International Cooperation in Mathematics Education in Developing Countries-Focusing on Pupils' Learning Achievement-, 2004-2006 Scientific Research Fund International Research (B) (2) No. 16402046, **First Year Report**, pp. 45-52.
- Uddin, M. M. et al. (2006a), Research Leader Takuya Baba, International Comparative Studies on Influence of Teachers' Views about Education on Mathematics Lessons at Primary Schools, 2004-2006 Scientific Research Fund International Research (B) (2) No. 16402045, **Second Year Report**, pp. 18-25.
- Uddin, M. M. et al. (2006b), Research Leader Hideki Iwasaki, Empirical Study on the Evaluation Method for International Cooperation in Mathematics Education in Developing Countries-Focusing on Pupils' Learning Achievement-, 2004-2006 Scientific Research Fund International Research (B) (2) No. 16402046, **Second Year Report**, pp. 31-37.
- Uddin, M. M. et al. (2007a), Research Leader Takuya Baba, International Comparative Studies on Influence of Teachers' Views about Education on Mathematics Lessons at Primary Schools, 2004-2006 Scientific Research Fund International Research (B) (2) No. 16402045, **Final Report**, pp. 65-80.
- Uddin, M. M. et al. (2007b), Research Leader Hideki Iwasaki, Empirical Study on the Evaluation Method for International Cooperation in Mathematics Education in

Developing Countries-Focusing on Pupils' Learning Achievement-, 2004-2006 Scientific Research Fund International Research (B) (2) No. 16402046, **Final Report**, pp. 11-24.

Conference/Workshop Presentations

- Uddin, M. M. (2004), Effectiveness of In-service Teachers' Training Program for Primary Mathematics in Bangladesh: A Case Study of Training by The National Academy for Primary Education (NAPE). *19th Conference on Japan Academic Society of Mathematics Education*. January 31 - February 1, 2004, Aichi University of Education, Japan.
- Uddin M. M. (2005a), Numeracy in Bangladesh: Terminal Competencies of Mathematics at Primary Education. *International Education Cooperation Symposium: 'The Issue of the Reform of Quality Education from the Point of View of Numeracy'*. January 23, 2005, University of Tsukuba, Japan.
- Uddin M. M. (2005b), The Impact of Competency-Based Mathematics Curriculum on Student Achievement at Primary Schools in Bangladesh. *The Third ICMI-East Asia Regional Conference on Mathematics Education (ICMI-EARCOME 3)*, August 7-12, 2005, Shanghai, Nanjing and Hangzhou, China.
- Uddin, M. M. (2006a), The Impact of In-service Teachers' Training by Primary Training Institutes in Bangladesh (1): Focusing on Subject Knowledge, Pedagogical Skills and Attitudes of Mathematics Teachers. *23rd Conference on Japan Academic Society of Mathematics Education*. January 28-29, 2006, Kumamoto University, Japan.
- Uddin, M. M. (2006b), The Impact of In-service Teachers' Training by Primary Training Institutes in Bangladesh (2): Focusing on Interview to the Teachers' Trainers and Trainees about Training. *24th Conference on Japan Academic Society of Mathematics Education*. July 1-2, 2006, Hiroshima University, Japan.
- Uddin, M. M. (2010), Examination System in Bangladesh and its Influence on Students and Teachers. *International Mathematics Education Workshop: 'Development of Mathematics and Science Literacy in the Developing Countries – Focusing on Social Context'*. November 3-6, 2010, Hiroshima University, Japan.
- Uddin, M. M. & Hossain, K. M. (2019), Quality Assessment of Master of Education (MEd) Program Under Blended Mode at Bangladesh Open University, International Conference on Education in the Digital Ecosystem(ICeDDE 2019), Kuching, Sarawak, Malaysia.

Fellowship/Scholarship Awarded

Japanese Government Scholarship through Asian Youth Fellowship (AYF) program-2000 from February 2000-March 2007.

Overseas and Local Training

- Participated and completed a four week **Academic Staff Development Program in Distance Education Design and Development** Conducted at the Australian Taxation Studies Program (ATAX) in the faculty of Law of the University of New South Wales, Australia from 19th October to 12th November 1998.

- Completed the **Intensive English and Japanese Language Course** for 14 months offered by the Ministry of Foreign Affairs, Japan in Malaysia, from February 2000 to March 2001.
- Participating a eight week **Leadership in Mathematics Education Program** with in the framework of the Teaching Quality Improvement in Secondary Education Project, Government of the People's Republic of Bangladesh, conducted in the York Region District School Board and Faculty of Education, Queen's University, Kingston, Ontario, Canada from 1st July to 21st August, 2009.
- Participated in the training workshop on **Interweaving of ICT with Open and Distance Learning** conducted at the National Institute of Open Schooling (NIOS), India from September 26 to October 10, 2012
- Participated in the training workshop on **Creative Methodology of Teaching & Learning** conducted at Bangladesh Open University, Gazipur from January 08 to January 10, 2012.
- Participated in the training workshop on **e-Learning** conducted at Bangladesh Open University & Korea International Cooperation Agency (KOICA) from July 30 to August 14, 2012 and from September 17 to September 19, 2012.
- Participated in the training workshop on **ICT and e-Learning System** conducted at Bangladesh Open University & Korea International Cooperation Agency (KOICA) from May 15-28, 2013
- Participated in the training workshop on **Launching Online Program** conducted at Bangladesh Open University, e-learning Center from August 14-18, 2016.
- Participated in the Orientation workshop on **Quality Assurance Mechanism** conducted at Higher Education Quality Enhancement Project (HEQEP), UGC, 2017.
- Participated in the Training workshop on **Financial, Procurement and Administrative Management** conducted at Higher Education Quality Enhancement Project (HEQEP), UGC, 2017.
- Participated in the training for Professional Development on **Quality Assurance in Higher Education** conducted at Higher Education Quality Enhancement Project (HEQEP), UGC, Ministry of Education, BRAC CDM, Rajendrapur, Gazipur from July 9-20, 2017.
- Participated in the Training on **Web-based Project Monitoring Information Management System** conducted at Higher Education Quality Enhancement Project (HEQEP), UGC, 2018.
- Participated in the Workshop on **National Qualifications Framework** conducted at Higher Education Quality Enhancement Project (HEQEP), UGC, 2018.
- Participated in the training on **Quality Assurance in Higher Education** conducted at Nottingham University, Malaysia, from January 7-10, 2018.

Membership of Professional Associations

- Life Long Member, Bangladesh Mathematics Society.
- Life Long Member, Graduate School for International Development and Cooperation (IDEC) Alumni Association, Hiroshima University, Japan.

Academic Positions

- Member, Board of Governors (BOG), Bangladesh Open University: From 19 April, 2012 to 14 March, 2017.
- Member, Academic Council (AC), Bangladesh Open University: From 30 June, 2011 to present.
- Inter-University Cultural Board Member: From 2013 to 2014.

Language Proficiency

- Excellent in reading, writing, speaking and listening in Bangla.
- Proficient in reading, writing, speaking and listening in English.
- Good in reading, writing, speaking and listening in Japanese (Completed the **Intensive Japanese Language Course** for 14 months offered by the Ministry of Foreign Affairs, Japan in Malaysia, from February 2000 to March 2001).

Computer Skills

Proficient in MS word, Excel, Power point, SPSS (Statistical Package for Social Sciences) etc.

(Professor Dr. Md. Mohsin Uddin)