

Dr Md Aktaruzzaman

PhD (ICT Education, Monash University, Australia), MSc & PGD (ICT Education, IUT, Bangladesh),
and BSc (Computer Science and Information Technology, IUT, Bangladesh)

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Career Profile

- High-quality teaching experience and skills as evidenced from student evaluations and feedback.
- Extensive research experience as shown through publications in high-quality journals and conferences.
- High level of proficiency in computer applications including learning/content management system, data analysis (SPSS/NVivo), web design, elearning/mlearning/online learning, Adobe Suite and MS Office.
- Excellent interpersonal, oral, and written communication skills developed through teaching and research engagement at leading universities, and project experience with international agencies.

Referred my article on '[Adapting Structuration Theory In Distance Education \(ASTIDE\)](#)' as, "a very thoughtful article which goes beyond most theoretical positions ... I look forward to seeing more and in using this in my own work" ~ **Professor Terry Anderson, Athabasca University and Canadian Research Chair.**

Education

2012 – 2016 **Doctor of Philosophy (ICT Education)**

Thesis: [Distance Education Framework for a Developing Country](#)

Area: Qualitative Case Study on Open Universities in Australia, Bangladesh and the UK

Supervised by: Associate Professor Margaret Plunkett and Dr Michael Dyson

Faculty of Education, Monash University, Australia, www.monash.edu

2009 – 2010 **Master of Science in ICT Education**, 1st Class Honours (University Medal)

Thesis: [Impact of Computer Aided Instruction \(CAI\) on Students Achievement](#)

Department of Technical and Vocational Education (TVE)

Islamic University of Technology (IUT), Bangladesh, www.iutoic-dhaka.edu

2007 **Postgraduate Diploma in ICT Education**, 1st Class Honours

Thesis: E-governance in Bangladesh and Web-based Learning for All

Department of Technical and Vocational Education (TVE), IUT, Bangladesh

2003 – 2006 **BSc (Hons) in Computer Science & Information Technology**, 1st Class Distinction

Thesis: A Web and Mobile-based Library Management System

Department of Computer Science and Engineering (CSE), IUT, Bangladesh

Employment History

Teaching and Faculty Experience

Islamic University of Technology (IUT), Bangladesh, 2016 – September 2017

- 2017 - Head, Centre for Innovation in Technology Enhanced Learning (CITEL): IUT Central
- Working as a Head of CITEL at IUT and leading a team in the development of ***IUT Online Platform*** to make increased use of ICT in the delivery and support of teaching/learning.
- 2016 - 2017 Assistant Professor/Senior Lecturer: Department of Technical and Vocational Education
- Lecturing and coordinating Educational Research, Statistical Package (online course), and Observation and Practice Teaching courses in the postgraduate program. Supervising student research and industrial placement, conducting academic research in Educational Technology, performing various departmental responsibilities.

Monash University, Australia, 2012 – 2016

- 2015 - 2016 Postdoctoral Research Fellow: Faculty of Education, Gippsland Campus
- Conducted extended research on the PhD topic and published articles in the top journals of distance education across the world.
- 2012 - 2016 Sessional Lecturer and Tutor: Faculty of Education, Gippsland & Clayton Campus
- Educational Technology and Foundation Courses (200 students).

Islamic University of Technology (IUT), Bangladesh, 2006 – 2012

- 2011 - 2012 Senior Lecturer/Assistant Professor: Department of Technical and Vocational Education
- I worked as a ***professional development coordinator*** in the ‘Postgraduate Diploma of Education in Tertiary Teaching’ program for the newly appointed teachers of the university. Also, served as a coordinator for the ‘Blended Learning Initiative’ at IUT.
- 2008 - 2011 Lecturer: Department of Technical and Vocational Education
- I was involved in designing and developing lecture materials and handouts, conducting classes and labs of several courses as well as marking assignments and exam scripts, doing student evaluations and feedback, participating in research and development activities of the department, and organised several social/academic/cultural events at the university.
 - ***Initiated blended learning first time at my university*** in 2010 where some courses were provided online through Moodle. I led a team in customising and configuring Moodle, developing CAI materials, and providing self-instructional experience to students. Some of the course materials on SPSS and NVivo are available at <http://youtube.com/akhtariut/>.
- 2006 - 2008 Assistant Programmer: IT Solutions of the university (central)
- I led a team in the design and development of ***IUT Result Processing System and Library Management System*** using Oracle and PHP, which are still being utilised today. I was also engaged in providing training on different systems to several groups of the university.

- In this role, I also dealt with a wide range of eLearning related incidents and support requests from the teachers/staff of the university, which includes configuration and customisation, student registration, allocation of appropriate access to users, linking and uploading course materials, and managing overall evaluation system.

Research Supervision and Student Support

- 2012 – 2016 HDR Student Adviser: *Monash Education Research Community, Faculty of Education*
Assisted HDR students through seminars and discussions regarding how to: find a suitable research topic, review related literature, write a research report/article, analyse & interpret data, comply with ethics and intellectual property laws, and address other related issues.
- 2008 – 2012 Supervisor/ Co-supervisor: *Dept. of Technical and Vocational Education, IUT*
Supervised *five higher degree research (MS) students* and also worked as a project co-lead in six undergraduate research projects of 18 students till date. Before taking any supervision, I completed the ‘Supervision Training Program’ organised by IUT in 2008.

Research Projects

Monash University, Australia, 2012 – 2016

- 2016 Research Associate: A socio-technological approach of addressing distance education issues in developing and developed countries - postgraduate publication award for three months; *Monash Institute of Graduate Research (MIGR)*.
- 2012 – 2015 Research Assistant: Rural learning centre research project - School for Student Leadership/The Alpine School; *Faculty of Education, Gippsland Campus*.

Islamic University of Technology (IUT), Bangladesh, 2006 – 2012

- 2010 – 2012 Co-Investigator: Annual Confidential Report (ACR) of the teachers’ performance based on students’ quantitative evaluation and qualitative feedback; *Department of Research, Extensions, Advisory Services and Publications (REASP)*.
- 2009 – 2010 Chief Investigator: First year students’ engagement, experience and evaluation; *Department of Research, Extensions, Advisory Services and Publications (REASP)*.

Industry Experience

Yunus Centre Social Business Design Lab, Dhaka, 2011, <http://www.muhammadyunus.org/>

- 2011 Coordinator, Student Internship Program
Hands-on practice on social business model of *Nobel Laureate Professor Muhammad Yunus (Bangladesh)* to provide IT solutions for rural entrepreneurs who provide a service using computing technology in their local communities. I led a team of 50 students from different OIC member countries in this one-month long industry engagement program.

Cycore Studios, Dhaka, Bangladesh, 2008 – 2011, <http://cycorestudios.com/>

2008 – 2011 Design and Development Consultant

Design and develop self-instructional interactive video tutorials on SPSS (quantitative), NVivo (qualitative), Microsoft Office, Learning Management System (Moodle), Content Management System (Joomla, WordPress), Web Design, Visual Programming (Java/C#), Animation and Image/Video Editing, and Object Oriented Programming.

Collaborative Teaching and Research Engagement

In Work-integrated Learning (WIL)

2010 - present Work-integrated Learning Facilitator; University or Nationwide Project Coordinator

I worked as an assistant coordinator in the *ILO TVET Curriculum Reform Project (2010-2012)* in Bangladesh. The study proposed an integrated curriculum model, which includes depth of disciplinary expertise, broader skills (e.g. critical thinking, problem solving, digital literacy, communication, & inventiveness), interdisciplinary effectiveness, cultural competence, an integrated professional, ethical and personal identity to make a positive contribution to the society. I was also engaged in the training program of this project to introduce different aspects of the integrated curriculum to the relevant stakeholders.

In Distance Education (face-to-face, online or blended)

2008 - present Distance Education Theorist; Developer, Policies & Practices in Distance Education

I developed the '*Adapting Structuration Theory In Distance Education (ASTIDE)*', which is considered as a comprehensive theoretical model for distance education. The ASTIDE model and its application in both developing and developed countries have been published in the world top journals. Under the KOICA (Korea) initiative, I made significant contributions to the *Bangladesh Virtual Interactive Classroom (VIC) Project (2008-2010)* and *Integration of VET in Distance Education Project (2009-2012)* at Bangladesh Open University.

In Professional Development Program

2008 - 2012 Teacher Trainer; Program Coordinator, Professional Development

I trained secondary school teachers and supervised many pre-service teachers in the design and development of lesson plan and course materials for face-to-face, online and blended learning. I also worked as a coordinator and resource person in several academic development programs at IUT, which includes seminars, workshops, and postgraduate diplomas for the newly appointed teachers of primary, secondary and tertiary institutions.

In Clinical School-based Teacher Education

2003 - 2012 School Teacher (Primary & Secondary); Learning Facilitator

I have two years' experience of teaching in the primary school under the *USAID VSAT Project (2003-2004)*. I have also more than 4 years' experience of teaching in the undergraduate and postgraduate programs (Technology/Education) designed specifically for secondary school teachers at IUT in 2008-2012.

Leadership and Professional Training

- Served as a *coordinator* in two consecutive international workshops organised by the Dept. of TVE, Islamic University of Technology (IUT) in 2010 and 2011 in association with ILO, UNESCO and IDB.
- Worked as a *team leader/ resource person/ coordinator* in several international projects (university/nationwide) in Bangladesh including USAID VSAT Project (2003-04), KOICA VIC Project (2008-10), KOICA VET Integration Project (2009-12) and ILO TVET Curriculum Reform Project (2010-12).
- Attended one-month teachers' training program at National Academy for Educational Management (NAEM), Government of Bangladesh in April 2008.
- Participated several HDR training programs at Monash University, Australia in 2012-2015.
- Led a team in the design and development of IUT Result Processing System and Library Management System using Oracle and PHP, which are still being utilised today.

Research Funding

2016	Higher Degree by Research Publication Grant, Monash University (\$7,000)
2012 – 2015	Doctoral Research Scheme Funding, Govt. of Australia (\$35,000 pa plus tuition fees)
2010 – 2012*	ILO TVET Curriculum Reform Project in Bangladesh (\$30,000 pa); Department of Technical and Vocational Education, IUT, Bangladesh
2003 – 2005	Undergraduate Tuition Fee Scholarship, Organisation of Islamic Cooperation (\$5,000 pa)
2003 – 2004*	USAID VSAT Project for developing IT skills of primary schools' teachers & students, Gazipur, Bangladesh (\$20,000pa); Department of Computer Science & Engineering, IUT

*Research funded to the Department and I worked as part of a team

Awards and Commendations

2016	Monash University Vice Chancellor Award, Faculty of Education (Nomination) for 2017 Paper Publication Award (PPA), Monash Institute of Graduate Research (MIGR)
2015	Monash Education Research Community Award (MERC), Monash University, Gippsland Australian Scholarships Group (ASG) Travel Grant for Harvard University Conference
2014	Australian Association for Research in Education (AARE) Postgraduate Student Award
2012	International Postgraduate Research Scholarship (IPRS), Government of Australia Monash Graduate Scholarship (MGS), Monash University Australia
2011	Best Coordinator Award 2011, Islamic University of Technology (IUT), Bangladesh

Peer Reviewed Academic Publications

Book/ Book Chapters

1. Aktaruzzaman, M. (2011). *Methods, Evaluation and Research in Education* (1st ed.). Dhaka, Bangladesh: Mou Prokashoni. (ISBN: 978-984-33-4078-8). In association with Professor Khushi Muhammad (Pakistan) and Professor Che Kum Clement (Cameroon).
2. Aktaruzzaman, M. (2012). *CAI in Education and Research* (1st ed.). Saarbrücken: Academic Publishing GmbH & Co. KG., Germany (ISBN: 978-3-659-13957-4).

Refereed Journal Articles

3. Aktaruzzaman, M. & Plunkett, M. (2017). A socio-technological approach of addressing distance education issues in developing countries. Submitted to *International Review of Research in Open and Distributed Learning (IRRODL)*, Athabasca University, Canada.
4. Aktaruzzaman, M. & Plunkett, M. (2017). Institutional and community perceptions of distance education in Bangladesh: preparing for the 21st century. *Turkish Online Journal of Distance Education (TOJDE)*, Anadolu University, Turkey. Accepted in 18(3), 2017
5. Aktaruzzaman, M. & Plunkett, M. (2016). Adapting Structuration Theory as a comprehensive theory for distance education: the ASTIDE model. *European Journal of Open, Distance and E-learning (EURODL)*, 19(1), 19–35. <https://doi.org/10.1515/eurodl-2016-0002>
6. Aktaruzzaman, M. & Plunkett, M. (2016). An innovative approach toward a comprehensive distance education framework for a developing country. *American Journal of Distance Education (AJDE)*, 30 (4), 211-224. <http://dx.doi.org/10.1080/08923647.2016.1227098>
7. Aktaruzzaman, M., Raihan, M. A. & Tapan, S. M. (2015). ICT to Enhance Learning, *Journal of Teacher Education (JTE)*, 4/2015. Bangladesh Open University (BOU), Gazipur, Bangladesh.
8. Elbushari, I. E. & Aktaruzzaman, M. (2012). Identification of the problems and prospects in vocational education and training of Bangladesh. *Asian Journal of Management Science & Education*, 1(1), 76-89.
9. Aktaruzzaman, M. & Muhammad, K. (2011). Impact of Computer Aided Instruction on Students Achievement in Educational Research and Statistics. *International Journal of Computer Science Research and Application*, 1(2), 2-11.
10. Aktaruzzaman, M. & Clement, C. K. (2011). Job Satisfaction among the Teachers of the Technical Training Centres (T.T.Cs) in Bangladesh. *Academic Research International*, 1(2), 375-382.
11. Aktaruzzaman, M., Shamim, R. H. & Clement, C. K. (2011). Trends and Issues to Integrate ICT in Teaching-Learning for the Future World of Education. *International Journal of Engineering and Technology*, 11(3), 114-119.

12. Shamim, R. H., Aktaruzzaman, M. & Clement, C. K. (2011). Factors influencing use of ICT in Technical and Vocational Education to make Teaching-Learning effective: Case study of Polytechnic Institutions in Bangladesh. *International Journal of Basic and Applied Science*, 11(3), 164-170.
13. Aktaruzzaman, M. & Clement, C. K. (2010). Vocational Education and Training in Human Resource Development: A Case Study of Bangladesh. *Academic Research International*, 1(1), 1-10.

Refereed Conference Articles

14. Aktaruzzaman, M. (2016). *A socio-technological approach of addressing distance education issues in developing and developed countries*. Paper presented to the Canadian Initiative for Distance Education Research (CIDER), December 7-8, 2016, Athabasca University, Canada.
15. Aktaruzzaman, M. & Plunkett, M. (2015). *An innovative approach towards the development of a comprehensive distance education framework for a developing country*. Paper presented at the 21st Century Academic Forum Conference, September 20-22, 2015, Harvard University, USA.
16. Aktaruzzaman, M. (2015). *Inspiring thoughts and practices through adapting structuration theory as a global comprehensive theory for distance education*. Paper presented at the MERC Annual Conference 2015, July 03, 2015, Monash University, Australia.
17. Aktaruzzaman, M. (2014). *Community perception towards integrating vocational elements in open and distance learning in Bangladesh*. Peer reviewed paper presented at the Australian Association for Research in Education Conference, December 01-04, 2014, QUT, Brisbane, Australia.
18. Aktaruzzaman, M. (2012). *ICT based distance education framework for a developing country: A Case of Bangladesh*. Peer reviewed paper presented at the Research In Focus Conference, September 27-28, 2012, Monash University, Churchill, Victoria, Australia.
19. Clement, C. K., Khan, S. H., & Aktaruzzaman, M. (2010). *Practice of Lifelong Learning in Technical and Vocational Education: A Case of IUT*. Peer reviewed paper presented at the Lifelong Learning International Conference (3LInC), November 10-12, 2010, Kuala Lumpur, Malaysia.

Working Papers

20. Aktaruzzaman, M. (2011). *Competency Based TVET Curriculum for the OIC Member States*. Working paper presented at the IUT Annual International Workshop in association with ILO Bangladesh and Islamic Development Bank (IDB), 27-30 November, 2011.
21. Aktaruzzaman, M. (2007). *Integration of Technology and Pedagogy in the Technical and Vocational Education of the OIC Member States*. Working paper presented at the IUT Annual International Workshop in association with UNESCO Bangkok and IDB Jeddah, 01-05 December, 2007.

Memberships, Affiliations & Community Roles

- 2016 - present Canadian Initiative for Distance Education Research (CIDER) – Member
- 2016 - present Turkish Online Journal of Distance Education (TOJDE) – Reviewer
- 2013 - 2015 Monash Education Research Community (MERC) – Founding Coordinator, Gippsland
- 2012 - present Australian Association for Research in Education (AARE) – ECR Member
- 2008 - 2009 Google Talent Hunt and Microsoft DreamSpark Project - University Coordinator, IUT
- 2006 - present Institute of Engineers Bangladesh (IEB) – Associate Member
- 2006 - 2012 IUT Computer Society (IUTCS) – Adviser and Representative of the Department

..... As a commitment to the community, I would like to contribute in providing opportunities to them through quality education and training, which, in turn, enable individuals to learn sustainable knowledge and skills to earn. After receiving a small grant for writing book in 2011, I began to get involved with underprivileged children/youth education and am hopeful to contribute more in future.

Referees

- 1. Assoc Prof Margaret Plunkett** – Principal Supervisor, PhD Program
Adjunct Faculty Member (Education), Monash University, Australia
Associate Professor, School of Education, Federation University Australia
E: margaret.plunkett@federation.edu.au T: (+61) 416 034488; (+61) 3 5122 6980
- 2. Dr AHM Razibul Islam** – Classroom Teacher and later Colleague at IUT, Bangladesh
Solution Architect – Advanced Technologies (FTTx)
CTO, National Broadband Network (NBN) Co Limited, Australia, www.nbnco.com.au
E: razibislam@nbnco.com.au T: (+61) 0430 196 635; (+61) 03 9107 3457
- 3. Dr Abu Raihan Mostofa Kamal** – Principal Supervisor, PGD & BSc Programs
Associate Professor, Department of Computer Science and Engineering (CSE)
Islamic University of Technology (IUT), Bangladesh, www.iutoic-dhaka.edu
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- 4. Prof Che Kum Clement** – Principal Supervisor, MSc Program
Professor and Head, Department of Technical and Vocational Education
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