

Dr. Mohd. Amirul Islam

Professor (Chemistry)

Open school

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Area of Specialization and research Interest

Chemistry, Polymer Chemistry, Medicinal Chemistry, Natural Science and other related fields, Curriculum Development, e-learning, Open and Distance Learning.

Academic and/or Administrative Responsibilities/Duties

- Member of Academic Council, Bangladesh Open University.
- Member, Science Curriculum Committee, Open School, Bangladesh Open University.
- Coordinator of Chemistry, Science Course material, Open School, Bangladesh Open University.
- Chairman of admission regulation preparation committee, Open School, Bangladesh Open University.
- Preparing and Presenting Audio-Video Programs.
- Member of School Committee, Open School, Bangladesh Open University.

Academic Profile

- **Doctor of Philosophy (PhD)** University of Rajshahi, Bangladesh (2003)
- **Master of Science(M.Sc.)** (Thesis group) in Applied Chemistry & Chemical Technology, University of Rajshahi, (1991, passing year 1995)
- **Bachelor of Science(B.Sc.)** with Hon's. in Applied Chemistry & Chemical Technology, University of Rajshahi, (1990, passing year 1994)
- **Bachelor of Education(B.Ed.)** in Education, Northern University Bangladesh (2008).
- **Certificate in Designing and Facilitating E-Learning**, Open Polytechnique, New Zealand (2016).

Professional Status

Professor(Chemistry)

Open School, Bangladesh Open University, Gazipur-1705, Bangladesh.

Research Supervisor (Education)

School of Education, Bangladesh Open University, Gazipur-1705, Bangladesh.

Research Experience

- **Research Title(MSc. Level) : Catalytic Effect of FeCl₃ on Polycondensation Between Citric acid and Polyethylene Glycol-600 at Post Graduate Level** (In
- **PhD research** entitled “**Biodegradable Polymers as Carriers for Sustained and Controlled Release of Medicaments**”.

- Research on ODL in Open School, Bangladesh Open University, Gazipur-1705, Bangladesh.

Writing Materials

Developed Courses for Open School of Bangladesh Open University (BOU).

- **HSC Chemistry 1st Paper**
- **HSC Chemistry 1st Paper**
- **Chemistry for Class IX-X**
- **Science for Class IX-X**

Developed Courses for the Junior School Certificate (JSC) Program of the Open School of Bangladesh Open University (BOU), a partnership program with an NGO coalition, Campaign for Popular Education (CAMPE):

- General Science for Class VI
- General Science for Class VIII
- Mathematics for Class VI
- Mathematics for Class VII
- Mathematics for Class VIII

List of Research Publications

01. M. A. Bakr and **M. A. Islam**, Catalytic Effect of FeCl₃ on Polycondensation Between Citric Acid and Polyethylene Glycol-600, J. Journal of Polymer Materials **15** (1998) 1-3.
02. M. A. Bakr, **Md. A. Islam**, M. A. W. Sarker, M.A. Islam and M. Ahmed, Malic Acid-Propane 1,2-Diol Copolyester as an Enteric Coating Material, J. Journal of Poly mer Materials **17** (2000) 467-472.
03. M. A. Bakr, **M. A. Islam**, M. A. Karim, G. S. Sadik and M. H. U. Biswas, Drug Delivery Profile of Malic Acid-Phthalic Acid-Propane 1,2-Diol Copolyester, J. Journal of Polymer Materials **19** (2002) 87-92.
04. M. A. Bakr, M. Ahmed, **M. A. Islam**, M. R. Karim and M. H. U. Biswas, Toxicological Study of Malic Acid-Propane 1,2-diol and Malic Acid-Propane 1,2-diol-Glycerol Copolyesters on Brine Shrimp Nauplii, J. The Sciences **2(1)** (2002) 32-34.
05. M. A. Bakr, S. Khatun and **M. A. Islam**, *In-vitro* Drug Release Profile of Malic Acid-Butane 1,4-diol Copolyester, Journal of Polymer Materials, **20** (2003) 337-342.
06. M. A. Bakr, **M. A. Islam** and S. Khatun, Subacute Toxicity Study of Malic Acid-Propane 1,2-Diol Copolyester, Journal of Medical Sciences, **3(4)** (2003) 274-282.
07. M. A. Bakr, S. Khatun and **M. A. Islam**, Drug Release Profile of Malic acid-Phthalic acid-Butane 1,4-diol Copolyester, Pakistan Journal of Scientific and Industrial Research, **47(4)** (2004) 251-255.
08. M. A. Bakr, K. Hasan, **M. A. Islam**, S. Khatun, M. A. Mannan and K.S. Ara, In-Vitro Drug Release Pattern of Maleic Acid-Succinic Acid-Propane 1,2-Diol Copolyester, J. Journal of Polymer Materials **23** (2006) 217-222.
09. S. Khatun, **M. A. Islam** and M. A. Bakr, Phthalic Acid-Butane 1,4-diol Polyester as a Matrix for Controlled Release of Bioactive Agents, Journal of Open School **2(2)** (2007) 53-60.
10. **M. A. Islam**, S. Khatun and M. A. Bakr, Toxicological Study of Malic acid-Phthalic acid-Propane 1,2-diol Copolyester, Journal of Agriculture and Rural Development **5(1&2)** (2007) 150-156.

11. Sefaly Khatun, **Mohd Amirul Islam** and M. Abu Bakr, Toxicological Investigation of Phthalic acid-Butane 1,4-diol Polyester on albino rats, *Journal of Open School* **3(1&2)** (2009) 67-76.
12. S. Khatun, **M. A. Islam** and M. A. Bakr, Toxic Effect of Malic acid-Phthalic acid-Butane 1,4-diol Copolyester on Albino Rats, *Journal of Scientific & Technological Research*, 2(2)(2011) 28-40.
13. **M. A. Islam**, S. Khatun and M. A. Bakr, Cyto-toxic activity of Phthalic Acid-Butane 1,4-Diol Polyester on Brine Shrimp Nauplii, *J. Journal of Open School*, 4(1&2) (2011) 161-166.
14. Ali, M. A., Daud, A. S. M., Latip, R. A., Othman, N. H. and **Islam, M. A.**, Impact of chicken nugget presence on the degradation of canola oil during frying, *International Food Research Journal*, **21(2)** (2014) 1119-1124.
15. **M. A. Islam**, S. Khatun, K. Nandi and M. A. Bakr, Phthalic Acid-Butane 1,4-diol-Glycerol Copolyester(PBGC) as Biodegradable Controlled Drug Delivery Carrier, **BUP Journal**, **1(3)** (2015) 21-30.
16. A. F. G. Masud Rezaa and **Dr. Mohd. Amirul Islam**, Mild Condition Synthesis of α , β -unsaturated Esters Derivatives through Copper Catalyst, *International Journal of Chemical Studies*, 4(5) (2016) 52-55.
17. **Dr. Mohd. Amirul Islam** and Dr. Sefaly Khatun, Evaluation of subacute toxicity of maleic acid-succinic acid-propane 1,2-diol copolyester by intraperitoneal administration in albino rats, *International Journal of Chemical Studies*, 4(5) (2016) 134-139.
18. Raisul Abedin Ananda, **Dr. Mohd. Amirul Islam**, Dr. Razia Sultana Chowdhury and Dr. Iftekhhar Ahmad, Study on the alimantal value, physicochemical constituents and sensory evaluation of chocolate tea, *International Journal of Applied Research*, 2(11) (2016) 155-158.
19. **Dr. Mohd. Amirul Islam**, A. F. G. Masud Rezaa, Dr. Sefaly Khatun and Dr. Iftekhhar Ahmad, Evaluation of the cytotoxic effect of malic acid-butane 1,4-diol copolyester in albino rats, *International Journal of Chemical Studies*, 4(6) (2016) 38-43.
20. Hossain Mohammad Zakir, **Mohd. Amirul Islam**, Nurtaf Khatun, Sheikh Md. Mohsin Ali, Mele Jesmin; Pesticidal activities of Benzoin Thiosemicarbazone and its complexes with Co(II) and Ni(II), *International Journal of Biosciences*, 9(6) (2016) 92-100.
21. **Dr. Mohd. Amirul Islam**, Drug release profile of malic acid-succinic acid-butane 1, 4-diol Copolyester, *International Journal of Chemical Studies*, 7(5) (2019) 2224-2228.
22. **Dr. Mohd. Amirul Islam**, Toxicological investigation of malic acid-succinic acid-butane 1, 4-diol co-polyester on albino rats, *International Journal of Chemical Studies*, 8(1) (2020) 1124-1130.
23. **Dr. Mohd. Amirul Islam**, Biodegradable polymer and its biomedical application, *International Journal of Chemical Studies*, 10(2) (2022) 01-03.
24. Md. Anwarul Islam and **Dr. Mohd. Amirul Islam**, Impact of biodegradable polymers on agricultural soil health, *International Journal of Chemical Studies*, 10(5) (2022) 114-119.

Participation in Various Conference, Seminar and Workshop

1. Training on 'Capacity Building for ODL Materials' from 12 to 19 March, 2006 under the auspices of the Bangladesh Open University, Dhaka, Bangladesh.
2. Training on 'Instructional Design' from 07 to 11 May, 2006 organized by Bangladesh Open University (BOU), Dhaka, Campaign for Popular Education (CAMPE) and Commonwealth of Learning (COL), Canada.

3. Training on '**Academic and Research Writing/Editing**' from 19 to 22 November, 2007 organized by Bangladesh Open University (BOU), Dhaka, Bangladesh.
4. International Workshop on '**Fundamentals of Open & Distance Learning Materials**' from 10 to 14 February 2008 hosted by Bangladesh Open University (BOU), Dhaka, supported by The Commonwealth of Learning(COL), Canada, and facilitated by Indra Gandhi National Open University(IGNOU), India.
5. International Workshop on '**Fundamentals of Assessment and Evaluation in Open & Distance Learning**' from 26 to 30 April, 2008 hosted by Bangladesh Open University (BOU), Dhaka, supported by The Commonwealth of Learning(COL), Canada, and facilitated by Indra Gandhi National Open University(IGNOU), India.
6. Attended International Conference organized by **Indian Distance Education Association** from 14 to 16 November, 2008 at Gauhati University, Assam, India.
7. Workshop on Creative Methodology of Teaching & Learning organized by Bangladesh Open University at Gazipur, Bangladesh from 26 to 28 December 2011.
8. e-Learning Training Workshop jointly organized by Bangladesh Open University & Korea International Corporation Agency held from 30 July to 14 August 2014 and from 17 to 19 September 2012.
9. Training Program on ICT and e-Learning system jointly organized by Bangladesh Open University & Korea International Corporation Agency held from 15-28 May 2013.
10. Capacity Building Workshop on Development of e-content to Deliver Digitally organized by Bangladesh Open University & Commonwealth Education Media Center for Asia, India from 19-23 January 2016.
11. Training Program on OSAPS and Examination Management Related Application organized by Bangladesh Open University held from 01-02 November 2017.
12. Training Program on Hands on Training on G Suite at Daffodil International University 04-05 May 2019.
13. Online Workshop on Development of Outcome Based Self Learning Materials organized by Bangladesh Open University & Commonwealth Education Media Center for Asia, India from 12-15 October 2020.

Membership of Professional Organizations

- Member (No. LM-644, Life Member), **Bangladesh Chemical Society**, 10/11 Eastern Plaza, Sonargoan Road, Hatirpool, Dhaka1205, Bangladesh.
- Member (No. -2219), **Asiatic Society of Bangladesh**, 5, Old Secretariat Road, Nimtali, Ramna, Dhaka1000, Bangladesh.
- Member (No. -790, Life Member) Chapainawabganj Zilla Somity, Dhaka, 61, Bijoyagar. Suite 13/5, Dhaka.