

You are cordially invited to attend a Seminar on

**Industry focused Research and Academic Programmes between BUET and University of Limerick:  
Erasmus, Dual MSc and beyond**

**Speaker:** Dr. Syed A. M. Tofail, Professor and Head, Department of Physics, University of Limerick, Ireland

**Date/Time:** July 22, 2023 (Saturday), 2.30 pm (Bangladesh Local Time)

**Location:** ITN Seminar Room, 5<sup>th</sup> Floor, ARI-ITN Building, BUET

**Abstract**

University of Limerick (UL) is one of the key drivers of Republic of Ireland's journey towards sustainable development goals with over 97% employment rate of its graduates, many of them are in leading positions in many global organisations and companies. The University is the leading International education hub in Ireland with its Study Abroad and Erasmus programmes and world-class research and innovation activity, which link with hundreds of European and international universities, companies and organisations. This gives students a truly international experience in an English-speaking country. Since 2017, BUET has been structurally engaged with UL through European Commission funded International Credit Mobility (ICM) programme which allowed BUET faculty and students to receive advanced training at UL on industry oriented research. UL and BUET are now expanding to academic engagement in Dual MSc programmes, Erasmus Blended Intensive Programme and Erasmus Mundus Joint Programme. I will introduce these programmes and central themes and discuss modes of engagement using case studies. I will discuss University to University (U2U) engagements for structural and systematic flow of students seeking internationally competitive higher education at the University of Limerick.

Ireland, a member of the European Union (EU), is the gateway to both Europe and North America. It has an open, warm and inclusive culture with a lot of part-time job opportunities for students during their study. It allows a 2 -year post-study work visa for registered students which can be attractive for students to gain work experience in one of the global enterprises located in Ireland especially around Limerick.

UL is young, dynamic, and responsive to current needs and changes in an ever-evolving education climate. It offers a number innovative programmes for international students that can be very attractive to prospective Indian students seeking international education with real-life work and research experience. It is one of the top 100 Universities focused on sustainable development goals (ranked 86 in 2023) and one of the top 500 Universities in the world (ranked 426 in 2024).



Dr. Fahmida Gulshan  
Co-Ordinator  
BUET-University of Limerick Academic Link Program  
And  
Professor  
Department of Materials and Metallurgical Engineering  
Bangladesh University of Engineering and Technology

### **Biography of Speaker**

Professor Syed A. M. Tofail received a BSc and an MSc in Metallurgical Engineering from Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh in 1996 and 1999, respectively. He became a Permanent Lecturer at the Department of Materials and Metallurgical Engineering, BUET, Bangladesh in 1997. In 2002 he received a PhD in Physics from the University of Limerick, Ireland and joined as a Postdoctoral Fellow the University's Materials and Surface Science Institute, where he became a Senior Research Fellow in 2006. He joined the Department of Physics of the same University as a Lecturer in 2011 and became a Senior Lecturer, an Associate Professor and a Professor in 2015, 2016 and 2023 respectively. His research interests span over piezoelectric and dielectric properties of biological materials such as biominerals, amino acids, peptides and proteins, and biological interactions with nonbiological materials. As such, he has led discoveries of piezo and pyroelectricity in synthetic biomineral hydroxyapatite, globular protein lysozyme and super piezoelectricity in amino acid beta glycine. He is a recognised international expert in characterisation of surface and interface and is one of the founding members of European Materials Characterisation Council (EMCC), where he led two Working Groups. He chaired 19th European Conference on Application of Surface and Interface Analysis (ECASIA), 17th IEEE-DEIS International Symposium on Electrets (ISE) and Electrically Active Materials for Medical Devices 2015. He has been a member of the ISE Scientific Advisory Committee since 2011 and co-edited the 17th ISE Special Issue of the Transactions of DEIS. He edited/co-edited 2 books on electrical activity in medical devices and published over 180 peer reviewed journal articles and 16 granted patents. He has delivered over 80 plenary/invited lectures and contributed to around 300 oral and poster presentations in national and international conferences. His research contributed to 3 spin out companies, and University of Limerick Research Impact Award 2014, Irish Medical Device Association (IMDA) Emerging Medical Technology Award, 2013 in Medical Technology Industry Excellence Awards; The Outstanding Young Person (TOYP) Award 2012, Junior Chambers International for Limerick and Ireland; Finalist, Best Project Award 2013 in European Commission FP6 and FP7 funding within the NMP theme. His research has saved and helped recovering millions of \$s in industrial processes and product yields. His industrial collaborators included Cook Medical, Delta Filtration, Analog Devices International, BorgWarner Beru Systems and produced joint papers, patents and intellectual property portfolio licensing. He has led 2 and partnered in 2 European Commission FP7 projects and currently partnering in 3 European Commission H2020 projects. He chairs the newly formed Technical Committee on Biodielectrics of the DEIS and is the Head of the Department of Physics in the University of Limerick, Ireland.