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Hasan Mandal received his B.Sc. from Middle East Technical University (Turkey) in 1987 and Ph.D. from University of Newcastle (UK) in 1992. He stayed at the same university as a postdoctoral research associate during the period of 1992-1996 with the funding from Cookson Technology Center (Oxford/UK) and EPSRC/UK. From 2007-2008, Dr. Mandal was at Karlsruhe University as Alexander von Humboldt Fellow. In 1996, he joined the Department of Ceramic Engineering at Anadolu University. He became the Head of Department (1999), Dean of the Faculty of Engineering (2004), Chairperson of Turkish Engineering Deans Council (2006), Vice Rector of Anadolu University (2010), Chairperson of Global Engineering Deans Council (GEDC-2009), The First Vice President of the International Federation of Engineering Education Societies (2009-2011). He is currently is Vice President and also the Director of Research and Graduate Policies at Sabanci University/Istanbul. He has been also one of the Founders the MDA Advanced Ceramics, Ltd., which is an active R&D company on Ceramic Materials in Turkey. He is currently serving as the President of Journal of the European Ceramic Society Trust, Board Member in Gebze Technological Development Park, Inovent (Innovative Ventures Co), Vice President of University-Industry Collaboration Centers Platform, Board Member of TUBITAK - TTO Support Group, Coordinator of Technopark Istanbul-Academic Platform, and Member of National Bologna Expert Team. He is a Member of World Innovation Foundation and World Academy of Ceramics. He has co-authored over a hundred publications (65 SCI publications, about 750 citations, h-index: 15) and three patents. Because of these achievements, he was honored by 20 awards, including TUBITAK Science Award and the Stuijts Award from the European Ceramic Society in 2005.

Abstract

The Important Tool for the Mobility in Global Engineering Education: Accreditation

While global challenges are becoming a part of our daily life, the importance and the necessity of the graduates who have global attributes are becoming more and more important. Since most of these global challenges are much more related to the engineering issues, engineering education with a global perspective is needed. The competences to achieve global engineering attributes can not only be obtained from one engineering college. In many engineering schools, students are requesting at least a term for study abroad. In year 2020, 7 million of the students will be mobile globally and the aim for the European Commission is that 20% of graduates will take at least study abroad. One of the important obstacles for the mobility is recognition of the courses which were taken from the other institutes. Although most of the engineering colleges are applying similar curriculum, many students are having a problem to transfer their knowledge and skills.



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The accreditation experience of engineering programs either by WA or EUR-ACE systems are giving great attention to the transparency and the recognition, and therefore the mobility will be much easier between accredited programs.

In this contribution, the importance of accreditation for global mobility will be discussed in detail.