

## ***CECS Teaching and Learning Seminar Series***

# **Research-Based Framework for Supervision of Undergraduate Research Projects**

Friday 11 September 2015 12noon – 1:00pm

Ian Ross Seminar Room R214 building 31

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**Abstract:** Research and inquiry is a vital component of the final year honours project that every undergraduate engineering student needs to complete as part of the BE degree requirements. In addition, it is central to the completion of 36 units of research by every BE RnD student. In this talk, we will first discuss models and conceptions of research and teaching, from the educational literature, which are relevant to the supervision of undergraduate research projects. In light of this discussion, we will identify an effective method of engaging undergraduate students with research and inquiry, which has been successfully implemented in the last two years. Finally, case study results will be presented comparing the outcomes before and after adopting this method.

**Bio:** Salman Durrani received the B.Sc. (1st class honours) degree in Electrical Engineering from the University of Engineering & Technology, Lahore, Pakistan in 2000. He received the PhD degree in Electrical Engineering from the University of Queensland, Brisbane, Australia in Dec. 2004. He has been with the Australian National University, Canberra, Australia, since 2005, where he is currently Senior Lecturer in the Research School of Engineering, College of Engineering & Computer Science. His current research interests are in wireless communications and signal processing, including synchronization in communication systems, wireless energy harvesting systems, outage and connectivity of finite area networks and signal processing on the unit sphere. He has 95 publications to date in refereed international journals and conferences. He currently serves as an Editor of the IEEE TRANSACTIONS ON COMMUNICATIONS and as the Chair of the ACT Chapter of the IEEE Signal Processing and Communications Societies. He is a Member of Engineers Australia, a Senior Fellow of The Higher Education Academy, UK and a Senior Member of IEEE, USA.

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