

Qualitative versus quantitative course assessment

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Abstract— This paper aims at the studying the discrepancies among the qualitative vs. quantitative course assessment measures. Qualitative measures are based on the students' opinions on the course outcomes coverage. While the quantitative are based on the actual scoring of the students in the different assessment tools such as exams, projects, etc. Data have been collected in regards to both qualitative and quantitative from the course assessment file (CAF) of the mechanical engineering department in UAEU. Initial analysis of the results indicated that such differences need to be investigated to reveal the reason(s) of such discrepancies among the qualitative and quantitative measures and recommend which one to be more reliable.

Keywords — Quantitative assessment, qualitative assessment, course outcomes evaluation

BIOGRAPHY

Dr. Basel Alsayyed is an assistant professor at the department of mechanical engineering in the United Arab Emirates University. With over 16 years of experience in academia in many colleges and universities, and over 12 years of industrial experience, most of which are in the American automotive industry, Dr. Alsayyed has a passion for education in general and teaching in particular. Teaching is an art, a trust, a valuable transformation of students using certain methods and tools, and it is holy, are all part of his belief. He practices it in all aspects of his life, and to Dr. Alsayyed, students are the most valuable element in the education process; their needs have to be addressed in any continuous improvement discussion of the education process. Integration of academia and industry goals and activities are paramount. Sensing the industry needs and prepare future engineers to meet the challenges is an important dimension of Dr. Alsayyed's activities. Dr. Alsayyed research interests are in the areas of advanced manufacturing, quality & reliability, renewable energy, engineering education and knowledge management.

Dr. Mourad received his BSc degree and his M.Sc. degree (1989) in Mechanical Engineering from Helwan University. In 1991, he got a scholarship (INDO/ARE Cultural Exchange Program) under which he earned his PhD degree (Fracture Mechanics and Fatigue) from the IITB in 1996. He was promoted to the assistant professor rank in

1996. In 1998 was invited as a visiting scholar to the Ohio State University, USA. In September 2000 he joined the UAEU as assistant professor. In September 2003 he was promoted to the associate professor rank at Helwan University and in 2005 promoted to the same rank at the UAEU. In 2007 he was invited as a visiting scholar to the IITB. In 2009 he was promoted to full professor rank at Helwan University, Egypt, and to the same rank at the UAEU in Spring 2014. His main research areas are, Materials characterization, fatigue and fracture, stress analysis, stress corrosion cracking, FE method, failure analysis and prevention, durability and degradation of materials, FSW and FSSW, tissue engineering, biomaterials and nanotechnology. He has supervised 24 MSc and PhD theses and led as a PI and CO-PI 22 funded research projects that resulted in more than 100 papers.

Ali Hilal Alnaqbi started his career in 2005 when he joined International holdings group IHG in Dubai as bioinitiative project manager and then as business development division manager. During that time and under his supervision, successfully Tejoori Ltd launched and listed in London stocks market. Just before he left, a business plan from A to z on health city is to be launched in Dubai as competitor to the Dubai health care city. In 2006, he started my Post-Doc degree at Harvard in Boston and gained fellow certificate in 2009. He Joined UAE University in 2009 as an assistant professor in engineering. Alnaqbi has many publications in my field. His current career embraces major administrative and academic themes. Long time before all this, he has earned my Bachelor's Degree in medical engineering from Glasgow in Scotland, in 1999, and Master's Degree in Medical engineering from the University of Strathclyde in Scotland in 2000. In 2001, Alnaqbi joined PhD program in the same University in Scotland for designing new device to be used for cells inoculation. he was awarded a PhD degree in 2005 for my outstanding achievements in designing the new generations of bioreactors of the three compartments. This updated version of this device is currently under patent process.