Title of Article: Innovative Practical-Oriented Teaching Reforms in Engineering Education: A Key To Effective Capacity Building

Author(s): COA. Awosope et al.


Abstract: Thorough engineering education imparts robust and reliable knowledge and practical skills in relevant fundamental as well as advanced concepts for the purpose of applying scientific information, data and results to analyze, design, synthesize and develop useful systems, devices and machines. Unfortunately, many engineering schools in our universities over the years have adopted incomplete and or weak teaching methods that give superficial and alarmingly low attention to students’ exposure to well-developed practical skills, thereby reducing the quality of technical know-how of the young engineering graduates. This paper presents an analysis of the teaching methodology being adopted by many engineering schools in Nigerian universities. This is done in comparison with recognised working models, which are employed by universities in developed countries. The paper also presents an innovative practical teaching reform for the enhancement of effective students’ capacity development.