

Faculty of Engineering and Architecture Engineering Management

EM Seminar Series - Fall 2017

Seminar Topic:

A graph Theory Approach to Solve the Examination Scheduling Problem



Moueen Salameh

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About Speaker:

Moueen K. Salameh is a professor of engineering management and industrial engineering at the American University of Beirut. He received his Ph.D. in Industrial Engineering and Operations Research from Virginia Polytechnic Institute and State University, Blacksburg, VA. His research interests cover areas in production planning, inventory control, project management, scheduling and sequencing, and systems analysis and optimization. Dr. Salameh is a member of INFORMS and IIE. He has published several articles in numerous international journals such as *Production Planning and Control*, *International Journal of Production Economics*, *IEE transactions*, *Production and Inventory Management*, and *Applied Mathematical Modeling*.

Abstract:

Most universities are faced with the problem of scheduling of exams at the end of each semester. In this research, we solve the problem by using a partitioning algorithm based on graph coloring to generate disjoint non-conflicting time slots. The work is extended to meeting students' preferences of not having more than two exams in a single examination day. A Microsoft Excel™ Visual Basic program is developed and samples of real examinations scheduling records are presented

Date: Sept. 29, 2017

Time: 17:30 – 18:45

Room: 202