

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

ACADEMIC SENATE

ACADEMIC PROGRAMS COMMITTEE

REPORT TO

THE ACADEMIC SENATE

AP-006-189

MS Systems Engineering Program Review

Academic Programs Committee

Date: 02/06/2019

**Executive Committee
Received and Forwarded**

Date: 02/20/2019

Academic Senate

Date: 02/27/2019
First Reading
03/27/2019
Second Reading

BACKGROUND:

A self-study was prepared by the department of Industrial and Manufacturing Engineering Department for the Master of Science program in System Engineering. This self-study of MS in System Engineering program covers the academic terms from winter 2016 quarter through 2017/2018 AY. This program is operating on a self-supported model through the College of Extended University. Currently it is a pilot program and is being considered to transform into a permanent program.

An external review team, consisting of Dr. James Moore from University of Southern California and Mr. David Mason from Project Performance International, visited the IME Department during March 21-22, 2018. After their visit, a report was prepared and submitted by the external reviewers, then both the department and Dean prepared responses. The AP Committee has reviewed these responses.

RESOURCES CONSULTED:

Dr. Kamran Abedini, Chair of IME Department
Dr. Joseph Rencis, Dean of the College of Engineering
Dr., Ronald Yeung, Associate Dean of the College of Engineering

DISCUSSION and RECOMMENDATION:

The external reviewers were overall positive in their appraisal of Master of Science in Systems Engineering program. They commended the program strengths such as engaged and qualified faculty, contemporary curriculum content, well-designed program structure, and the focus on continuous program improvement etc. They also mentioned areas for improvement such as further consolidation of courses to reduce the impact of semester conversion on student burden, planned marketing strategy and effort, and distinction between engineering management and system engineering. It is also suggested that the student learning objectives and additional co-curricular options be improved as the program further grows into larger size.

The department and Dean's office were generally in broad agreement with the reviewers' comments and suggestions. Based on the reviewer comments, the department has developed the plan of improvement especially on marketing and assessment.

Overall, the review is positive. The areas of concerns or improvement is typical for new programs and the department has shown plans and commitment to strengthen the program and make this program permanent.

The Academic Programs Committee commends Industrial and Manufacturing Engineering Department on their work of preparing a thorough and thoughtful review and developing improvement plans accordingly.