

Faculty Partner Panel Report- SWOT Analysis

S- STRENGTHS

Well planned and executed modules, with good connections to ABET criteria and Bloom's taxonomy.

Good pedagogical model. Flipped class room is good for this topic.

Prepared discussion questions helped to keep students engaged and participating.

Comprehensive technical content.

W- WEAKNESSES

Demonstration project needs refinement and better connection to real life damage.

O- OPPORTUNITIES

Beginning with the large amount of technical information provided, it should be easy for individuals to tailor the material to their particular class.

Content can be a starting point for a more comprehensive class on SHM.

Content can be expanded to include other areas where monitoring is used, such as environmental engineering, aerospace engineering, mechanical engineering, etc.

Videos could be produced to market the modules and to enrich the content of the current modules.

Damage in the demonstration can be better related to actual structural damage (impact damage, corrosion damage, etc).

Use LMS to reduce barriers to implementation.

T- THREATS

Can be challenging to convince other instructors to give up time in their class.

Can be challenging to get other faculty to implement material as originally envisioned.

Maintenance of web site and content beyond the end of the project.

Maintenance of the community of interested faculty beyond the end of the project.

Start up costs (sensors, DAS, etc) for new participants.

Maintenance of equipment for future years.

If time permits, list most needed revisions/additions in order of importance.