Session 2: Facilitating Curriculum Innovation through Research Partnership

- **Presentation Title** (10 word limit):
  Facilitating Curriculum Innovation through Research Partnership

- **Presentation Rationale** – Clear rationale for addressing the topic, showing the value of the session to conference attendees

  We present and show case curriculum innovation by integrating complex aviation science projects into undergraduate engineering education with dialectic design approach and comparative performance analysis for innovative practices.

- **Presentation Abstract** (60 word limit) – A brief description to be included in the conference program

  We present and show case curriculum innovation by integrating complex aviation science projects into undergraduate engineering education with dialectic design approach and comparative performance analysis for innovative practices. This approach supports specific interdisciplinary practices in aviation sciences and the emerging issues concerning the design process. Our study also promotes teaching methods on how to address challenges with implementing and developing innovative systems in STEM education using performance analysis techniques and engineering practices.

- **Presentation Plan** (60 word limit) – A brief description that provides an overview of your objectives and expected audience involvement. Details of how the session will be conducted under a unifying theme.

  The presentation is based upon power point, along with some engineering and aviation research demos.