

Prabhav Vakharia

Discussion-Based Activity: "Critique and Collaborate"

Outcome and Purpose Statement:

Students will be able to critique scholarly articles, reports, and case studies related to pavement distress mechanisms, maintenance tactics, non-destructive testing, and sustainable pavement methods. The objective is to improve their capacity for analysis and expand their knowledge of the most recent pavement assessment and management studies.

Discussion Tool: Canvas Discussion Forum

Instructions for Students:

1) Article selection (Day 1):

- An academic article, report, or case study about pavement distress processes, maintenance strategies, non-destructive testing, or sustainable pavement techniques is chosen by each student. Post a synopsis and the title in the discussion thread.

2) Peer Review (Day 2):

- Students study and comment on the articles that their classmates have posted. Give constructive criticism on the arguments' coherence, applicability, and clarity of presentation. Discuss various points of view in a civil conversation.

3) Collaborative Analysis (Day 3):

- Students divide into small 3-4 groups to work together to analyse a collection of articles based on the comments they have received. Every group summarizes the data, pinpoints recurring themes, and talks about the usefulness of the findings for pavement assessment and maintenance.

4) Group Presentation (Day 4):

- Every team produces a concise presentation that encapsulates their joint analysis. To illustrate important discoveries, difficulties, and possible uses, use clear explanations and graphics. You can use a collaborative document or your preferred application, like Google Slides, to share presentations.

5) Peer Feedback and Discussion (Day 5):

- Students offer comments on the group presentations, emphasizing their successes and outlining potential areas for development. Discuss the various viewpoints and revelations from the group analysis with the entire class.

Grading Scheme:

- 1) Article Selection (10 points): Selection of a recent and relevant scholarly article.
- 2) Initial Post (30 points): Quality of the summary, critical analysis, and alignment with course objectives.
- 3) Peer Interaction (20 points): Meaningful engagement with peers, providing valuable insights, and fostering discussion.
- 4) Overall Contribution (40 points): Demonstration of a thoughtful and constructive contribution to the discussion forum.

Note: This discussion-based activity aims to foster critical thinking, collaboration, and effective communication skills, aligning with the course learning outcomes in pavement evaluation and management.