

## **CE Material Group Project Fall 2020 (Presentation Only)**

### **10 points to Total Grade**

1. Each group must do literature search about a Civil Engineering (CE) Material that **has NOT been covered** in class. Subsequently, you will do a presentation towards the end of the course.
2. Topic should be something truly cutting edge, something new, so that all learn from your presentation. NO fiber composites, Kevlar, or laminated wood. However, you can consider looking at adobe, jute, bamboo, or other indigenous materials.
3. **The topic must have at least five refereed published papers.**
4. Select material and relevant standard(s) **from a country other than US and Canada.**
5. **Check relevant standard(s) from ASTM/AASHTO for selected material, if available, and compare with the standards of selected country.**
6. Email your selection in the following format and Get approval from the instructor(s) regarding your selection. (5%)
  - a. Email to [pandyah7@rowan.edu](mailto:pandyah7@rowan.edu). and copy [trias@rowan.edu](mailto:trias@rowan.edu), [forin@rowan.edu](mailto:forin@rowan.edu) [mehta@rowan.edu](mailto:mehta@rowan.edu),
  - b. It is IMPORTANT that you have a subject line “CE Materials Fall 2020Group(#)  
Project”.
  - c. **Email must be received by September 25<sup>th</sup> 2020.**
  - d. Email must contain an attachment of a word document with following information and referred papers for selection of material
    - i. Group Number
    - ii. Material selected
    - iii. Name of the selected country/country of origin (**Except US and Canada**)
    - iv. Selected standards/references for the selected material
  - e. You can check the list of approved projects in google drive.
7. Suggested guidelines for the presentation are as follows:
  - a. Clearly explain the purpose/objective of the presentation. This should include a brief explanation of why a material that was selected is important.
  - b. Literature review/background on material – Origin, history, composition, evolution of the material with time, etc.
  - c. Applications and the potential in CE industry both short term and long term.
  - d. Identify and explain physical, chemical and mechanical properties of the selected material influencing performance of the material in construction practices/issues, variability, cost, and feasibility.
  - e. Identify and explain other factors such as socio-economic, cultural, political and environmental that may influence selection of the material for the construction.
  - f. **You can talk about a case study that uses this material.**

8. Summarize the findings. (i.e. what did you learn from this project).
  - Tangible factors: such as different locations with different weather/soil conditions
  - Intangible factors: such as cultural and/or political practices hindering the progress of standards development/upgrade.
9. Organization and presentation of the information will be given considerable importance. The presentation should be organized in such a manner that someone reading it for the first time should have a good idea about the material.
10. Develop an interactive presentation.
  - a. 15 minutes total for the group.
  - b. Each group member must present.
  - c. Professional behavior and attire are expected for the presentation.
  - d. Final Presentation dates (Tentative):
    - Section 1: - Monday 7<sup>th</sup> Dec in lab meeting,**
    - Section 2: Wednesday 9<sup>th</sup> Dec in lab meeting**
    - Section 3: Tuesday 8<sup>th</sup> Dec in class meeting**
    - Section 4: Wednesday 9<sup>th</sup> Dec in lab meeting**

### Presentation Grading

<b><u>Approval Email (Due 09/23)</u></b>	5%
<b><u>Progress Presentation (Week of November 16<sup>th</sup> )</u></b>	15%
Appearance and Professional Behavior	5%
Presentation Style: Use of graphics/animation/media/etc....	10%
Introduction/Objective/background	10%
Properties, construction practices/issues/etc...	10%
Summary of Findings	30 %
Overall Content	15%
Total	100%