

## CIVE 1188: Structural Analysis – assessment details for Video Project – Task 2

Assessment task – An interim report on the chosen profile structure – 10 Marks

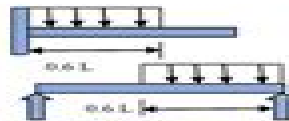
Due: **3<sup>rd</sup> May – 23:59** [can submit until 5<sup>th</sup> May with late penalty of 5% per day, thereafter 100% per day without special consideration or OUP/ELU]

### 1. AIM and Purpose :

In this task, students start to analyze their profile structure chosen in Task 1, using the concepts learnt in the lectures. Further details are set out below:

### 2. Quick Info :

- Identify your profile structure into one of the following:
  - Group 1 – Beams like structures (e.g., bridges)
  - Group 2 – Frame like structures (e.g., swings, sheds, verandah, bus stops)
  - Group 3 – Stand up structures (e.g., billboards)
  - Group 4 – Not defined by the above
- Identify the main supports for the structure; check with tutors if in doubt.
- Use the principles of articulated structures to disassemble into sub-structures.
- Choose the beam element for further analysis. **Remember the beam element must be either simply supported or cantilever beam!!!**
- Use **partially distributed load on the beam member for 0.6L of the span** (L is clear distance between beam supports) based on your student number as follows:
  - If your student number ends with an odd number, multiply the last digit by 3.36 and if ends with an even number, multiply the last digit by 4.24 and if it ends with 0, use 9.45 as your odd in kN/m – **this will be your partial odd;**
  - If your student number ends with an odd number, load starts from the left hand side of the beam and if ends with an even number or ends with 0, the loading starts from the right hand side as shown in the example sketch below. Use this to vary for other combinations.
- **Cantilever beam, ending with an odd student number:**
- **Simply supported beam, ending with an even number or 0:**
- **The above are example sketches. If in doubt, check with SrI/ tutor. Failure to follow the loading condition will result in NO marks despite calculations.**
- A rubric is provided to mark this assessment task as noted below.



### 3. Submission instructions

Submit as a word or pdf file on Canvas; Email submissions **WILL NOT BE ACCEPTED** and will not be marked.

## 1. MARKING SCHEME – VIDEO PROJECT – TASK 2

**Task 2- Submission of an interim report on the profile structure from Task 1 (Max 10 marks- Min 0 marks) as explained below**

### PART A: ROLES

| Student Role                                                                                                                                                                                                                                                                                                           | Lecturer Role                                                                                                                                                                                                                                                                                                         | Remarks                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Submit a report with a cover page (student number, full name and course details), a content page of calculations and start with a copy of Task 1.<br>2. Follow with detailed calculations to be included in the report as per point 3 below - all typed or neatly written with key results marked on the structures | <ul style="list-style-type: none"> <li>• SrI will work out similar calculations of the imaginary model in the lectures. He will cover information on loads, points of application as well.</li> <li>• SrI will clarify your queries as much as possible via <b>email</b> or in the lectures. If additional</li> </ul> | <ul style="list-style-type: none"> <li>• In addition to Task 1 remarks;</li> <li>• No page limit applies for the report.</li> <li>•</li> </ul> |

# A2 F216 Task2 2014 Mark Scheme

**RD Boyd**



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