

Yearwork checklist

When attending your oral exam, the following material is requested to support the discussion of the yearwork as a possible question. In case of exam in presence, have with you **a printed copy** of the following items. You are welcome to print two figures on a same page to save paper, but please print on one side only, so we can compare diagrams appearing in different pages. Do not staple the printouts.

In case of oral interview in distance, you will be asked to share a pdf document containing the input / output data listed below. **It is not allowed** to run dmb_fem2 and/or your own MATLAB script during the oral exam.

- ☐ .inp file of the structure (question 1);
- ☐ Plot of the undeformed structure (question 1);
- ☐ Plot of the modal shapes with related natural frequencies (question 2);
- ☐ Plot of the Bode diagrams in linear scales for a unit input vertical force applied at point A and at point C, total of 4 diagrams (question 3);
- ☐ Plot of the Bode diagrams in linear scales due to the distributed load of magnitude 1 N/m; total of 3 diagrams (question 4);
- ☐ Printout of the MATLAB script you used to answer point 4;
- ☐ Equations you used to solve point 5 (handwritten is fine as far as it's readable);
- ☐ Plot of the time history and spectrum in linear scale of the input relative displacement, time history and spectrum in linear scale of the output absolute vertical displacement of point A, total of 4 diagrams (question 5);
- ☐ Printout of any MATLAB script you used to answer point 5;
- ☐ .inp file of the modified structure, plot of its undeformed configuration (if different from the nominal one), modal shapes of the modified structure and Bode diagram in linear scales of the requested FRF (question 6);