

DE 250-2024-2-ALL: Module V a: CAD Model Submission Guidelines & Deadlines



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Date 21-03-2025 11:02 PM

[DE 250-2024-2-ALL](#) » [Forums](#) » [Announcements](#) » [Module V a: CAD Model Submission Guidelines & Deadlines](#)

[TP](#) Module V a: CAD Model Submission Guidelines & Deadlines

by [Tanvi N Patil](#) - Friday, 21 March 2025, 11:01 PM

1. 1. CAD Model Completion & Approval

- Your complete CAD model must be ready before Module V a.
- Get your model checked and approved by your tutor.
- Finalize the scale of the final prototype with your tutor during Module V a.
- After tutor approval, submit your CAD files for 3D printing and laser cutting during Module V a.

2. Human Silhouette for Scale & Proportion

- Based on the finalized scale, share the requirement for a human silhouette to illustrate scale and proportion.

Material Availability

- 3D Printing: [TPU & PLA]
- Laser Cutting: MDF (3mm & 6mm), White Acrylic (3mm & 6mm), Transparent Acrylic (3mm)

Component Segregation & Material Procurement

- Consult your tutor to determine which components need laser cutting or 3D printing.
- Share the list of materials that need to be procured.
- Start segregating components based on whether they need 3D printing or laser cutting.

3D Printer Bed Size & Printing Duration

- Available Bed Size: 25cm x 25cm x 30cm
- You may download and use Fracktory-5 to check the duration and material required for printing using this link:
<https://github.com/FractalWorks/Fractory-5>
- Your model, including all components together, should not exceed a printing duration of 10 hours or the bed size limit (25cm x 25cm x 30cm).

File Submission on Moodle

- Submit your files on Moodle by 4:00 PM using the Google Form on Moodle.
- File Naming Convention:
 - Laser Cutting:
 - File format: DXF or SVG
 - File name: [Group Name]_Laser (e.g., S7E1_Laser)
 - 3D Printing:
 - File format: STL
 - File name: [Group Name]_3D (e.g., S7E1_3D)
 - Each 3D printing component must be saved as a separate STL file.
- Files with incorrect naming conventions will not be printed or cut.

Submission & Access Restrictions

- This submission is mandatory for the viva, and NO DELAYS will be accepted.
- Students who fail to submit their CAD model in Module V a will not be permitted to use the 3D printer or laser cutting machines later.

[See this post in context](#)