

3D Printer

Do not load **TPU** in AMS

Open door and/or top panel **opened** when printing PLA or PETG for optimal result

Keep **ventilation** in the room running when using the machine

Turn off machine when changing **nozzle** or other component

Format SD Card from time to time



Our 3D printer: Bambu Lab P1S

Send a print request

You can send a 3d print request at 3dprinting@amaravati.org with the information related to your print: file link, filament type, usages, colours, etc.

Make your own sign

<https://makerworld.com/en/makerlab> -> Make my sign

Finding 3d Print Models Online

There are multiple websites with ready-made 3D print models:

- **Thingiverse:** <https://www.thingiverse.com>
- **Printable:** <https://www.printables.com/>
- **MyMiniFactory:** <https://www.myminifactory.com>
- **Cults3D:** <https://www.cults3d.com>
- **Yeggi:** <https://www.yeggi.com>

Designing 3d Print Model Yourself

You can learn to design or modify 3D models with the free browser based software <https://www.onshape.com/> quite easily.

Credentials

See [3D Printer Credential](#) for password and account

Filaments

Let's try to use the bambu lab refill method and products. It looks hassle-free.

Fundamental Rules: The drier the filament, the higher the print quality.




<https://wiki.bambulab.com/en/filament-acc/filament/dry-filament>

Upgrade for the printer

In order to print [Carbon Fibre or Glass Fibre filament](#), you need to upgrade the printer with gear and nozzle.

ABS-GF (and PETG-CF) would be good to be able to print for high stress part

For example, this could be order at some point:

	<div>ABS-GF</div> <div>White (41100) / Filament with spool / 1 kg</div> <div>£27.99</div>	<div><div>−</div><div>1</div><div>+</div></div> <div>Remove</div>	£27.99
	<div>Bambu Hotend - P1 Series</div> <div>0.4mm Hardened Steel / Complete Hotend</div> <div>£30.99</div>	<div><div>−</div><div>1</div><div>+</div></div> <div>Remove</div>	£30.99
	<div>Hardened Steel Extruder Gear Assembly</div> <div>X1 Series and P1 Series</div> <div>£20.99</div>	<div><div>−</div><div>1</div><div>+</div></div> <div>Remove</div>	£20.99
			Total: £79.97 GBP

Another upgrade possible

<https://biqu.equipment/products/bigtreotech-panda-touch-5-display-for-bambu-lab-printers>

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