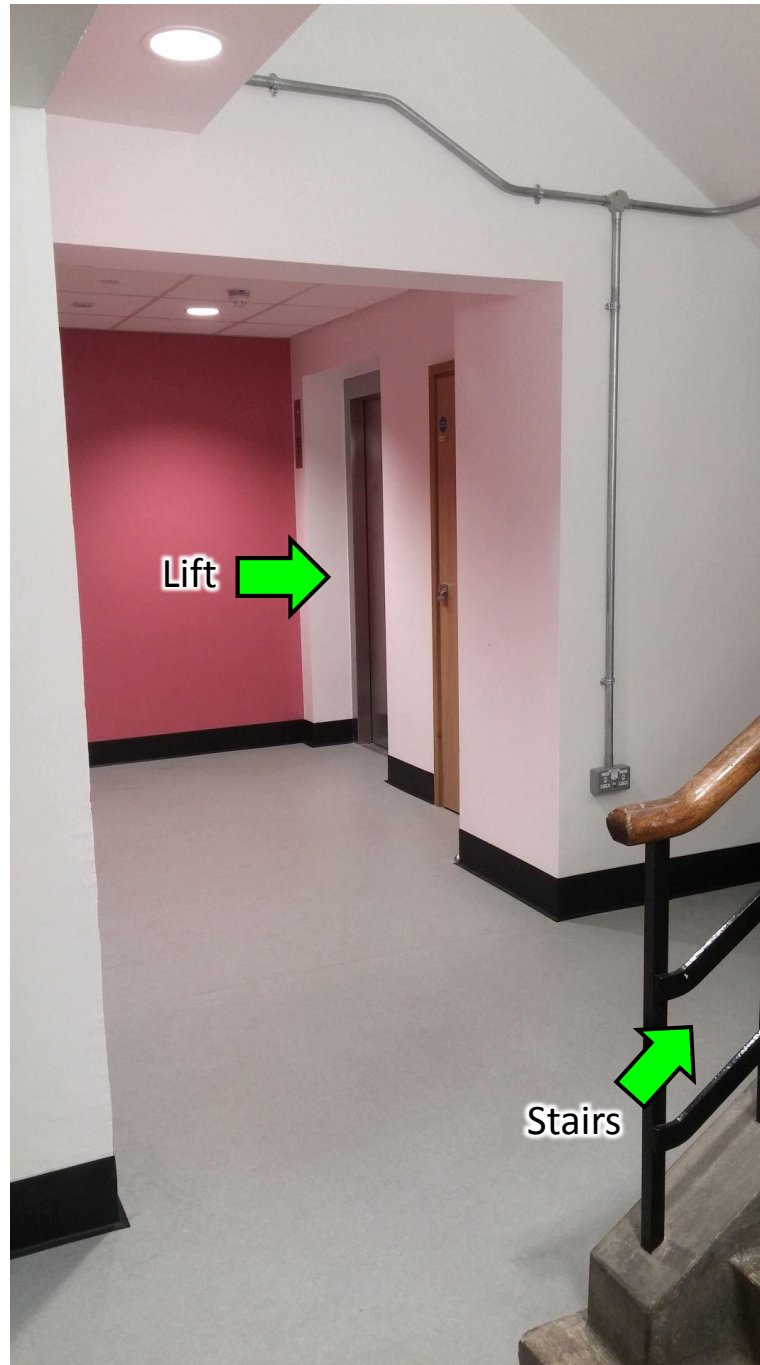


- **Both in room L 050** – check it in advance!
- Labs start in **Week 4**
- All labs on **Thursday** afternoons **2pm-5pm**
- **Online pre-lab interactive (Structures only) to be completed beforehand !!!**
- Detailed group timetables to be issued by **Week 2**
- Labs supervised by post-graduate teaching assistants:
 - Structures: Tamas Rev (tamas.rev@bristol.ac.uk)
 - Materials: Arjun Radhakrishnan (arjun.radhakrishnan@bristol.ac.uk)



Woodland Rd entrance to the New Wing





Up to **Ground Floor**







- Five experiments:
 - 2D pin-jointed truss
 - Shear force and bending moment in a beam
 - Bending deflection of rectangular section beams
 - Direct stresses in a T-section beam
 - Buckling of struts
- **Mandatory pre-lab online demo and quiz !!!**
- Experiments demonstrate theory taught in lectures
- Assessment: online test in **week 17**

- Tensile testing of three different materials
 - Aluminium alloy
 - Polyamide 6
 - High-density polyethylene
- Extraction of basic material properties
 - Young's modulus
 - Yield stress / Proof stress
 - Ultimate tensile strength
- Discussion
 - Relationship between structure and properties
 - Implications for materials selection assignment
- Assessment: online test in **week 14**