Content:	Write a <i>technical report</i> covering the following topics for your chosen Helicopter, see below.
Preparation:	Lecture slides and optionally 1 – 6 and "Basic Helicopter Aerodynamics" (Newman/Sneddon).
Report:	Submit the report via Moodle (via link) in PDF format. Make sure you put the Name/Number of the group, Your Name(s), Student number(s) on the front page of the report.
Deadline:	Friday January 12 th 2024

Helicopters, Assignment

A. Description of the helicopter		
General description and data		
Aerodynamics; Design choices and explanation (airfoil, rotor blades, tail rotor, fuselage etc.)		
The main rotor hub and its components		
Additional stabilizing components		
B. Helicopter Performance (Calculations & Graphs)		
Hover ceiling (for MTOM – OEM)		
• OGE		
• IGE		
Performance curves (Power Req. vs. Airspeed)		
• @sea level: different weights: (MTOM – OEM)		
• @different altitudes. (at Oft SL, 6000ft, max. PA)		
@hover ceiling IGE		
@hover ceiling OGE		
C. Verification and validation		
Uncertainty of parameters (influence of different parametric factors in the equations)		

Sensitivity of parameters on results (big vs. small differences due to unknown aspects / assumptions)

Validation of results (Compare with manufacturers data)