

Required	Preferred	Constraints
Interim presentation		
Experiment 1 done	Findings and suggestions	Must be done in three weeks
Experiment 2 done	More than just these two experiments	
	Slides and practise	
Model and experiments		
Experiment 2: <ul style="list-style-type: none"> <li>• Thermodynamic analysis</li> <li>• Pressure-angle relation</li> <li>• Efficiency</li> <li>• Can it run on different blends (conclusion)?</li> </ul>		Only two hours of physical testing time
Determining fuel consumption at different loads <ul style="list-style-type: none"> <li>• Analytically (with losses)</li> <li>• Experimentally</li> </ul>		
Analyse everything with gasoline	← and bioethanol	
CO <sub>2</sub> emission analysis		
Thermodynamic analysis considering: <ul style="list-style-type: none"> <li>• Heat-loss to walls</li> <li>• Non-instantaneous combustion</li> <li>• Realistic air and fuel compositions and ratios</li> <li>• No gas exchange analysis</li> </ul>		
Final report		
Can the model describe reality accurately enough?		
Results from different models		
Energy consumption		

Energy/operating costs (€)		
Emissions (CO <sub>2</sub> )		
Efficiency		
Advise,		
Conclusion and discussion		