Week	Activity for GA: Group A; GB: Group B		Week	Activity for GA: Group A; GB: Group B	
	Face to Face	Offline		Face to Face	Offline
1	GA 1. Welcoming Lecture 2. Intro. + Mini Projects	GB 1. Intro. + Mini Projects 2. Basic Concepts	8	GB 1. Mid Term 1 2. 2nd Law	GA 1. Solution of Mid Term 1
2	GB 1. Energy Concepts & 1st Law 2. Energy Concepts & Solved Examples	GA 1. Basic Concepts 2. Energy Concepts	9	GA 1. 2nd Law 2. Entropy 1	GB 1. Solution of Mid Term 1 2. Examples on 2nd Law
3	GA 1. Energy Concepts & Solved Examples 2. Pure Substance (Phase changes)	GB 1. Pure Substance (Phase changes) 2. Equations of state (Gases) & Gas Mixtures	10	GB 1. Entropy 1 2. Present Mini Projects	GA 1. Examples on 2nd Law 2. Entropy 2 & Solved Examples
4	GB 1. Pure Substance & Gas mix: Solved Examples 2. 1st Law (Closed System)	GA 1. Equations of state (Gases) & Gas Mixtures 2. Pure Substance & Gas mix: Solved Examples	11	GA 1. Entropy 3 + Quiz 2 2. Present Mini Projects	GB 1. Entropy 2 & Solved Examples 2. Availability
5	GA 1. 1st Law (Closed System) 2. 1st Law (Open System) + Quiz1	GB 1. 1st Law (Open system) 2. Prepare Mini Projects	12	GB 1. Entropy 3 + Quiz 2 2. Present Mini Projects	GA 1. General revision 1 2. General revision 2
6	GB 1. Solved Examples 1 2. Quiz 1 + Mini Projects	GA 1. Solved Examples 1 2. Solved Examples 2 3. Prepare Mini Projects	13	GA 1. Present Mini Projects 2. Mid Term 2 + Oral	GB 1. General Revision 1
7	GA 1. Mini Projects 2. Mid Term 1	GB 1. Solved Examples 2	14	GB 1. General Revision 2 2. Mid Term 2 + Oral	GA 1. Availability

Grading for Semester Activities	
Activity	Points
Quiz 1	5
Quiz 2	5
Mid Term 1	15
Mid Term 2	15
Oral exam	10
Bonus for Theoretical Mini Projects (Maximum 3 students)	5
Bonus for Practical Mini Projects (Maximum 7 students)	10

Student groups for Mini Projects
+ Mini Project nature & Subject
Should be communicated within 2 Weeks

Students will choose subjects as they wish.
Some ideas are given below just as an Example:
Theoretical:

- Solar energy:
  - Resources available,
  - promising technologies,
  - national plans …
- Wind energy: same sub topics
- Biomass: same sub topics
- Climate changes:
  - Effects as a function of expected Global Temperature Increase
  - Proof of Global Temperature Increase and measures adopted by the World, ---

Practical:

- Solar energy:
  - A system producing electricity
  - A system producing hot water, …
- Wind energy:
  - A vertical axis wind turbine
- Cooling:
  - A simple evaporative cooling system
- …