Tasks for final exam from APG - Lecture part

1. Energy, fuels, technologies, energy conversion and process efficiency in power production.
2. Greenhouse effect and environmental aspect in power production systems.
3. Brayton Cycle – idea, process, parameters, devices, limitations and improvements.
4. Rankine Cycle – idea, process, parameters, devices, limitations and improvements.
5. Combined cycle.
6. Gasification technology – idea, process, characterisation.
7. Flexible operation of the power plants, waste management, pollution control, - problems and solutions.
8. Other system for energy production – fuel cell technology, biogas production, wind energy, solar energy, biomass energy.