

JEE 696 Greenhouse gas Measurement, Monitoring and Accounting
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Wk	Topic	Expected outcome	Instructor
1	Greenhouse gas emission, global warming and climate change	Understand the objectives and expected outcomes of the course, big picture of climate change and how the knowledge gain from the class fits into that big picture of climate change	AC
2	Climate change policy, greenhouse gas emission and reduction targets (UNFCCC, IPCC, and related international agreements)	Understand the mechanism and aims that the world community are using to drive cooperation towards emission mitigation	AC
3	Overview principle of greenhouse gas measurements, monitoring and reporting (IPCC vs. Life cycle GHG inventory methodology)	Understand the principle of measurement, estimate, and reporting of greenhouse gas at different levels (project, national, and global)	AC
4	Waste sector I: Overview	Understand and able to apply the methodology to measure and estimate greenhouse gas emission from sources in waste sector	ST
5	Waste sector II: Practices		ST
6	Energy sector I: Overview	Understand and able to apply the methodology to measure and estimate greenhouse gas emission from sources in energy sector	AP
7	Energy sector II: Practices		AP
8	Industrial process sector	Identify key source and how to estimate greenhouse emission from those sources of IPPU	AC/Invited
9	Midterm exam		
10	AFOLU: Overview and practices	1. Understand and pick up the appropriate method to estimate greenhouse gas emission from sources and removal by sink in Agri and LUCF 2. Demonstrate the ability to collect data or information, convert them into information suitable for greenhouse inventory 3. Familiarize oneself with the scientific equipment/sensors for taking gas samples, analyze the gas in AFOLU sector	AC
11			AC
12			AC
13			AC
14			AC
15			AC
16			AC
17	Final Exam		