

JEE 685 Climate Change: Physical Science Basis, Semester 1/2020

Dates and Times: Friday 900-1200 hrs., Starting date: 24 Jan 2020

Lecturer: Amnat Chidthaisong

Date	Lecture#	Topic
Jan 24	1	Introduction & Overview: class procedures, expectation, and basic needs
Reading		Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 1
Jan 31	2	Climate archives, data and models
Reading		Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 2
Feb 7	3	Plate tectonic and climate
Reading		Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 3-4
Feb 14	4	Orbital-scale climate change
Reading		Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 7-11
Feb 21	5&6	Deglacial climate change
Reading		Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 12-15
Feb 28	7	Human and preindustrial climate
Mar 13	8	Climate change during the last 1000 years
		Midterm exam
Mar 20	9	Climate change in the future
Mar 27	10	Introduction to climate impact assessments
Apr-3	11	Climate change and agriculture
Apr 10	12	Climate change, forestry, ecosystem
Apr 17	13	Ocean acidification
Apr 24	14	Human settlements, industry, and infrastructure
May 1	15	Human health
May 8	16	Student presentation, class summary, final preparation
May 15		Final exam