

JEE 685 Climate Change: Physical Science Basis, Semester 2/2018

Dates and Times: Friday 900-1200 hrs, Starting date: 18 Jan 2019

Lecturer: Amnat Chidthaisong

Lecture	Topic
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
2	Climate archives, data and models
Reading	Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 2
3	Plate tectonic and climate
Reading	Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 3-4
4	Orbital-scale climate change
Reading	Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 7-11
6	Deglacial climate change
Reading	Earth's Climate: Past and Future. W.H. Freeman and Company, New York. 2008. Chapters 12-15
7	Human and preindustrial climate
8	Climate change during the last 1000 years
	Midterm exam
9	Climate change in the future
10	Introduction to climate impact assessments
11	Climate change and agriculture
12	Climate change, forestry, ecosystem
13	Ocean acidification
14	Human settlements, industry, and infrastructure
15	Human health
16	Student presentation, class summary, final preparation
	Final exam