

TEACHING PLAN

Date	Session Title	What will be covered	Faculty	Time
01.06.10 (Tue.)	Registration	Registration formalities, introductions	Sharmila Sinha	9:15 am - 10:00 am
	Introduction	Students introduced, course explained; CSE introduced (case study teams formed). Students handed Politics of Environment, essay by Anil Agarwal; obituary by Ramachandra Guha	Aditya Batra	10:00 am - 11:00 am
	TEA			11:00 am - 11:15 am
	Introduction	Why Agenda for Survival: Introducing Environment-development as a problematic	Aditya Batra	11.15 am - 1:00 pm
	LUNCH			1:00 pm - 2:00 pm
	Film & discussion	<i>A film & discussion</i>	Amit Shankar, Sharmila Sinha	2:00 pm - 3:15 pm
MODULE > Overview of the Environment-Development debate				
02.06.10 (Wed.)	Discussion > Case studies	Discuss the magazine assignment; set roles, deadlines. Discuss what is a case study, expectations. (Case studies for week 1 to be handed out)	Paromita Ukil	10:00 am - 11:15 am
	TEA			11:15 am - 11:30 am
	Overview 1	Politics of environment' -- essay by Anil Agarwal in SOE-2	Aditya Batra	11:30 am - 1:00 pm
		LUNCH		1:00 pm - 2:00 pm
	Overview 2	India: State of our cities	Anumita Roychowdhury	2:00 pm - 3:00 pm
	Overview 3	Environment and Health perspectives <ul style="list-style-type: none"> • How environmental changes and health impacts are linked • Some key terms (DALYs, etc.) • Scope of inquiry: Vector-borne, water borne, changes in nutrition, etc. • Structure & history of health delivery systems (aganwadis, ANMs, etc); policies, funding • Major milestones & critique of public health initiatives 	Vibha Varshney	3:00 pm - 4:15 pm
MODULE > Natural resource management: Water				
03.06.10 (Thurs.)	Field Visit	Nizamuddin baoli for traditional RWH revival	Sushmita Sengupta and Deepika Chauhan	7:30 am - 10:30 am
		Film -		11:30am - 1:00pm
		LUNCH		1.00pm - 2.00 pm
	Overview 4	State of the resource: Water resources <ul style="list-style-type: none"> • Water balance in India (sources, supply) • Groundwater: Overused, unaccounted • State of river basins in India • Demands by rural, urban, industrial sectors • Official water management (irrigation, drinking water schemes, urban, industrial water demands) • Management models (River linking, water privatisation & pricing debate; big dams; community-managed regimes) 	Suresh Rohilla	3:30 pm - 4:30 pm
Module > Natural resource management: Biomass economy				
04.06.10 (Fri.)	Overview 5	Understanding the ecological basis of poverty in India	Richard Mahapatra	10:00 am - 11:15 am
		TEA		11:15 am - 11:30 am
		Discussion Continues		
		LUNCH		1:00 pm - 2:00 pm
	Invited speaker Confirmed 9810956469	Political economy of agriculture in India <ul style="list-style-type: none"> • India's quest for food security, fallouts • Dubious legacies of the Green Revolution • Rainfed areas: Farms of the poor • Corporatisation of Indian agriculture (contract farming); compare efficiencies of scale 	Rajeshwari Raina -	2:00 pm - 4:00 pm

	Overview 6	Forest management: An assessment • Forest governance: Brief historical overview • Community responses, innovation (JFM, CFM, other initiatives)	Aditya Batra	10:30 am - 11:45 am
	TEA			11:45 am - 12:00
		Time to Prepare for Case Study Presentation 1		
	LUNCH			1:00 pm - 2:00 pm
	Case study presentation - 1	<p>Team 1: The Forest Rights Act (2006) and status of implementation [expectation: procure the document; 'review' should include the context in which the need arose for this legislation; when introduced, when it became an Act; the Act's ambitions, its salient features. Find a way to provoke discussion. Plus, Timeline and details of how the Act is being implemented in various states; which states are progressive on it, and which aren't: in both cases, why?; the status of implementation vis-à-vis petitions filed in court against the Act: what are these petitions, grounds they were filed on, by whom, when, where. Implications. Find a way to provoke discussion.]</p> <p>Team 2: Revising the Estimation of Poverty in India: Myths, facts and controversies [expectation: Present a competent presentation on the various ways in which poverty is estimated; history, implications and current controversies related to poverty estimation; why the Supreme Court felt it necessary to intervene in the estimation exercise]</p> <p>Team 3: The 'National State of Environment Report of India, 2009': a review [Expectation: procure relevant report; 'review' must include analysis, i.e implications of the</p> <p>Team 4: Importance of groundwater in India [expectation: procure relevant documents from the Ground Water Estimation Committees</p> <p>Team 5: The 'Report on the State of Food Insecurity in Rural India': a review [Expectation: procure the document (published by World Food Programme & MS Swamin</p> <p>Team 6: The 'Biomass Resource Atlas': a review [Expectation: Team to procure the atlas (published by the Indian Institute of Science, Beng</p>		2:00 pm - 5:00 pm
Module > Environmental governance				
08.06.10 (Tue.)	Overview 7	<p>Regulating the environment</p> <ul style="list-style-type: none"> • What is the basis of environmental regulation in India? • Terms defined: Standards; regulation; monitoring; laws • Why environmental regulation in India is weak • An example: the EIA process 	Chandra Bhushan	10:00 am - 11:15 pm
	TEA			11:00 am - 11:15 am
	Invited speaker	Judiciary in environment	Ritwick Dutta	11:15 am - 1:00 pm
	LUNCH			1:00 pm - 2:00 pm
	Invited speaker	Big dams - to remind him a day or two before	Himanshu Thakkar	2:00 pm - 3:00 pm
	Film			

Module > Environmental conflicts				
09.06.10 (Wed.)	Invited speaker	Ecological rights & conflicts OR Conservation & conflict: Wildlife management debate in India	Souparna Lahiri	10:00 am - 11:15 am
	TEA			11:15 am - 11:30 am
	Invited speaker	The 'Tribal Question' and the Naxal movement	Shoma Chaudhury	11:30 am - 1:00 pm
	LUNCH			1:00 pm - 2:00 pm
	Invited speaker	Reportage on development-related conflicts	Paronjoy Guha Thakurta	2:00 pm - 4:00 pm
10.06.10 (Thurs.)	Invited speaker	Conflicts around water	Rohan D'Souza	10:00 am - 11:15 am
	TEA			11:15 am - 11:30 am
	Discussion Continues			
	LUNCH			1:00 pm - 2:00 pm
	Field trip briefing	What to expect, logistics, etc.	Sharmila Sinha	2:00 pm - 3:00 pm
MODULE: Field trip				
Fri., 11.06.10 to Thurs., 17.06.09	Field trip to Garhwal, Uttarakhand	<p>11.06.10 (Fri.): Delhi - Srinagar (Uttarakhand). Evening talk at GB Pant Institute on Garhwal mountain ecology & human-animal conflicts in the Nanda Devi Biosphere Reserve. Overnight at Srinagar.</p> <p>12.06.10 (Sat.): Visit to Guptakashi to view efforts of Appropriate Technology Institute. Proceed to Makku (largest women-headed van panchayat). Night at ATI, Guptakashi.</p> <p>13.06.10 (Sun.): Visit Kedarnath (if time permits) then proceed to Birahi via Kedarnath Wildlife Sanctuary and Chopta. Night at Birahi.</p> <p>14.06.10 (Mon.): Visit to Reni to interact with Chipko movement participants. Proceed to Surraithota roadhead. Hike to Tolma village. Night at Tolma.</p> <p>15.06.10 (Tue.): Day and night at Tolma</p> <p>16.06.10 (Wed.): Leave for Rudraprayag. View dam construction sites along the Alaknanda valley. Night at Rudraprayag.</p> <p>17.06.10 (Thurs.): Return to Delhi via Rishikesh. Reach Delhi late night.</p>		Issues to be covered - - van panchayat - dams - human animal conflict - chipko and the forest that was protected, its status - tourism of the region - biosphere reserve politics - eco development project funded by World Bank - UNESCO heritage site - sacred groves
18.06.10 (Fri.)	DAY OFF			
MODULE: Accountable Growth				
19.06.10 (Sat.)	Overview 8 Invited Speaker	Industry and resource use • History of industrialisation trends in India • Resource use, employment, waste & pollution • What it takes to manufacture something (material intensity, etc.) • Pollution prevention & control: Fundamentals, case studies • Pollution hotspots: Cases • Case in point - small scale industries	Monali Zeya Hazra	10:30am - 12:30 pm with a tea break in between
	LUNCH			
		Assignment review & discussion, writing workshop		Sharmila Sinha
21.06.10	Lecture	Understanding EIA: Industrialization and accountability public consultation	Kanchi Kohli	10:30 am - 1:00 pm
	LUNCH			1:00 pm - 2:00 pm

(Mon.)		EIA & assesment of industrial impacts Film on coal/uranium mining	Sujit Singh	2:00pm - 3:00 pm - Film Lecture - 3:15pm - 4:30pm	
MODULE: Urban Water, Waste & Pollution					
22.06.10 (Tue.)	Overview 9	Urban Air pollution and Mobility: A primer	Vivek Chattopadhaya	10:00 am - 11:15 am	
	TEA			11:15 am - 11:30 am	
	Invited speaker	Bus Rapid Transit System in Delhi	Sandeep Gandhi	11:30 am - 1:00 pm	
	LUNCH			1:00 pm - 2:00 pm	
	Invited speaker	The city: Sustainable • What is a 'Green Building' • Locating green buildings in context of cimate change • Design to target energy conservation • What is BEE seeking to achieve from it	Saurabh Yadav, BEE	2:00 pm - 3:15 pm	
23.06.10 (Wed.)	Field trip	Yamuna boat ride & understanding the BRT corridor	Meeraj & Vivek	8:30 am - 1:00 pm	
	LUNCH			1:00 pm - 2:00 pm	
	OFF				
24.06.10 (Thurs.)	Lecture, film & discussion	Urban water-waste connections: A primer on the crisis • Film: <i>Faecal Attraction</i>	Miraj Ahmad	10:00 am - 11:00 am	
		TEA		11:00am - 11:15am	
		• Demand-supply gap (cases, etc.) • Urban bias: Water supply from rural areas • Water-waste connection (cost; reuse, etc.) • Managing groundwater (govt. & community initiatives) • Lessons from the world: Govt. looking at models to further decentralise • From sewerage to sanitation: Understanding the paradigm shift for India		11:15am - 1:00pm	
	LUNCH			1:00 pm - 2:00 pm	
		Case study presentation - 2	AAGC team	2 :00pm - 5:00pm	
25.06.10 (Fri)	OFF FOR ASSIGNMENT				
MODULE: Climate Change					
28.06.10	Overview	Southern responses to climate change • Luxury emissions vs. survival emissions • Major climate negotiations: Milestones • In brief: Post-Kyoto global alliances & the agenda for Copenhagen	Sunita Narain	11:00 am - 12:00 pm	
	TEA			12:00 pm - 12:15 pm	
	Overview	Evolving science of climate change • The carbon cycle and 'sinks' • Understanding historical emissions (long-lived gasses) • Newer emissions sources: Black Carbon and the race to the 'tipping point' • Emerging research on the linkages between emissions and climate change	Kushal Pal Yadav	12:15 pm - 1:30 pm	

28.06.10 (Mon.)	LUNCH			1:30 pm - 2:30 pm
Film & discussion	<p>Impacts of climate change Screening of film, <i>Mean Sea Level</i>, followed by a discussion on climate change impacts in India and some responses</p> <ul style="list-style-type: none"> • Impacts on poverty, food, water (including river flows, accelerated glacial melt and energy security) • India's experience offers a 'model' the West needs to emulate (urban population dependant on public transport; a rich tradition of decentralised water management, intensive urban landscapes that are more resource efficient, among other 'adaptation' models). • India's avoidance strategy: National Climate Action Plan, with its 8 missions 	Pradip Saha / Pratap Pandey	2:45pm - 4:00 pm	
29.06.10 Tues.)	Invited speaker	<p>The energy equation</p> <ul style="list-style-type: none"> • Energy consumption: Sectoral outlook • Rural-urban divide • <u>Energy ladder and co-benefits</u>: India will move up the energy ladder (at present, most of our rural energy requirements are met with 'carbon-neutral' biomass-based sources, for instance), but the challenge lies in doing so with 'co-benefits' to climate and 'development'. There are some options already available that allow for 'smart development' that takes into account co-benefits. • <u>The efficiency approach</u>: The low-hanging fruits, which includes such measures as improved boilers in industry, etc. • <u>The energy substitution approach</u>: This calls for replacing (leapfrogging?) the fossil fuel-based energy sources with the 'new renewables' (and not merely expanding the old renewables – like India seems to be doing with hydropower, for instance). But there are enormous challenges in increasing their share in the country's total energy basket (this to be briefly discussed). • <u>The reducing energy consumption approach</u>: This includes such measures as 'green buildings', lifestyle changes, changes in urban planning, etc. 	Chandra Bhushan	10:30am - 11:30am
TEA				11:30am - 11:45am
Invited speaker	<p>Understanding the equity principle in climate negotiations</p> <ul style="list-style-type: none"> • Copenhagen 2009: Who has accepted what, and on what basis • Who will pay: Fiscal, monetary or trade-related 'solutions' on the table. • CDM: A critique of the carbon trade mechanisms • Finance and Technology transfer options 	Mr. Nagraj Adve	11:45 am - 1:30 pm	
30.06.10 (Wed.)	Student presentations, certificate distribution, feedback & farewell party			4:30 pm onwards