

<b>Course Title: Agriculture and Rural Development</b>				
<b>Course code:</b> PPS 197	<b>No. of credits:</b> 2	<b>L-T-P:</b> 28-0-0	<b>Learning hours:</b> 28	
<b>Pre-requisite course code and title (if any):</b> None				
<b>Department:</b> Policy Studies				
<b>Course Coordinator:</b> Dr Swarup Dutta		<b>Course Instructors:</b> Dr Swarup Dutta; Dr Shantanu De Roy & Dr Chubamenla Jamir		
<b>Contact Details:</b> <a href="mailto:swarup.dutta@teriuniversity.ac.in">swarup.dutta@teriuniversity.ac.in</a>				
<b>Course Type:</b> Core		<b>Course Offered in:</b> Semester 2		
<b>Course Description:</b> This course aims to analyse the performance of the agricultural sector since Independence, what had led to changes in performance of the sector and what accounts for these changes. It brings into focus the impact of agricultural performance on different sections of the rural population. In this backdrop the course also focusses on policy level developments that had impacted Indian agriculture in the pre-and post-reform period and the changing role of rural institutions to meet these challenges for a sustainable growth trajectory. The new trade policy regime, following the WTO Agreement on Agriculture, has necessitated major structural changes in the way countries support their agriculture. Against this background, it covers two of the major issues—food security and climate change—that has come up with changes in economic regimes at the domestic and global level.				
<b>Course objectives:</b>				
<ul style="list-style-type: none"> <li>▪ Acquaint the students with the growth performance of Indian agriculture since Independence</li> <li>▪ Understanding the impact of macro policy level changes on different sections of the rural population in India</li> <li>▪ Understanding the impact of climate change on agriculture and its related impact on food security.</li> </ul>				
<b>Course content</b>				
<b>Module</b>	<b>Topic</b>	<b>L</b>	<b>T</b>	<b>P</b>
1.	Understanding growth performance of Indian Agriculture- (Pre-and Post-Reforms); Implementation of Land Reforms in India- (The Case of West Bengal); Economic Differentiation in the rural areas	10		
2.	<b>Introduction to Rural Society</b> Social stratification and exclusion in rural India; Institutional Landscape for Rural Development and Agriculture  Green Revolution and its social impact; Influence of Globalization on agriculture;  Agriculture and Biotechnology; Sustainable Rural Livelihood; Agrarian Crisis (Farmer Suicides in India)	10		
3.	<b>Agriculture and food security: Concepts</b> Types of agriculture; Food production systems; Food security concept; types of food insecurity  <b>Agriculture and global development challenges</b> Agriculture production under various global development challenges; planetary boundaries; SDGs  <b>Agriculture and climate change</b>	8		

	Climate change and food security problems in global and regional (India) context			
	<b>Sustainable agriculture systems</b> Methods and strategies for improving crop yield under climate and environment stress; sustainable agriculture types (including organic farming); subsistence agriculture; resource management systems			
		<b>28</b>	<b>0</b>	<b>0</b>
<b>Evaluation criteria:</b>	<b>Weightage (%)</b>			
Term Paper (Module 1)	40%			
Presentation (Module 2)	30%			
Presentation (Module 3)	30 %			
<b>Learning outcomes:</b>	Students will develop a critical understanding on the development of agricultural sector in India and on issues like food security and climate change that can impact the livelihood strategy of substantial sections of the rural population.			
<b>Pedagogical approach:</b>	Class room discussions and interactions			
<b>Materials:</b>				
<b>Required text:</b>				
<b>Suggested readings:</b>				
<b>References:</b>				
<b><u>Module I:</u></b>				
	Association for Democratic Rights (2000). <i>Suicides in rural area of Punjab</i> . AFDR Ludhiana.			
	Chand, R. (2004). India's national agricultural policy: a critique. <i>Indian Journal of Agricultural Economics</i> , 64(2) 164-187			
	Cleaver, H.M. (1972). The contradictions in the Green Revolution, <i>The American Economic Review</i> , 62(2): 177–86.			
	Gandhi, Vasant P. (1997). Technology, cost reduction and returns in agriculture: A study of wheat and rice in Punjab. <i>Vikalpa</i> , 22(2) April–June: 35–43.			
	Gill, A. (2000). <i>Rural credit markets—financial sector reforms and the informal lenders</i> . New Delhi: Deep and Deep Publication.			
	Gill, A. (2004). Interlinked agrarian credit markets: Case study in Punjab. <i>Economic and Political Weekly</i> , 39(83): 3741–3751.			
	Gill, A. and Singh, L. (2006). Farmer's suicides and response of public policy: Evidence diagnosis and alternatives from Punjab. <i>Economic and Political Weekly</i> , 41(26): 2762–2768.			
	Goldman, A. and Smith, J. (1995). Agricultural transformation in India and Northern Nigeria: Exploring the nature of Green Revolution. <i>World Development</i> , 23(2): 243–263.			
	Institute for Development and Communication. (1998). <i>Suicide in rural Punjab</i> . Chandigarh: IDC.			

Iyer, K. Gopal and Manick, G.S. (2000). *Indebtedness, impoverishment and suicides in rural Punjab*. Delhi: India Publisher.

Manav, C. (2006). Debt drives Indian farmers to suicide. Inter Press Service.

Mearns, R. (1999). Access to land in rural India—policy issues and options. Policy

Nadkarni, M.V. (1988). Crisis of increasing costs in agriculture: Is there a way out? *Economic and Political Weekly*, 23(29): A114–A119.

Sainath P, (1996) Everybody loves a good drought. Penguin Publication.

Satish, P. (2006). Institutional credit: Indebtedness and suicides in Punjab. *Economic and Political Weekly*, 41(26): 2754–2761.

Singh, K., Singh, S., and Kangra, H.S. (2007). *Status of farmers left farming in Punjab*. A report by Punjab State Farmer's Commission in collaboration with Punjab Agricultural University, Ludhiana. Government of Punjab, Chandigarh.

Singh, S., Toor, M.S., and Sharma, V.K. (2005). *Magnitude and Determinants of Indebtedness in Punjab Agriculture*. Unpublished seminar paper. Patiala: Punjabi University.

#### **Module II:**

Mohan Rao, J. and Storm, Servaas (1998), "Distribution and Growth in Indian Agriculture", in Byres, Terence J., *The Indian Economy: Major Debates since Independence*, OUP.

De Roy (2017), "Economic Reforms and Agricultural Growth in India", *Economic and Political Weekly*, Vol 52, No.9.

Rawal and Mishra (2002), "Agrarian Relations in Contemporary West Bengal", in Ramachandran, V. K and Swaminathan, M. (2002) (eds.), *Agrarian Studies: Essays on Agrarian Relations in Less=Developed Countries*, Tulika Publishers, New Delhi.

De Roy (2016), "Changes in the Distribution of Cultivated Land and Occupational Pattern in Rural West Bengal", *Indian Journal of Agricultural Economics*, Vol. 71, no. 4.

Patnaik, Utsa (1990), *Agrarian Relations and Accumulation: The mode of production debate in India*, OUP, 1990.

#### **Module III**

Grote U., 2014. Can we improve Global food security? A socio-economic and political perspective. *Food Security*, 6:187–200

Brindaban and Rabinge 2013, Megatrends in agriculture, *Global food security*. 1:99-105

Ecker O. and C. Breisinger. 2013. Revisiting food and nutrition security: A comprehensive overview, *Journal of Agricultural Economics and Development*, 2(7), 280-289.

Lal et al 2011. Climate change and food security. Springer Publications. Chapter 13, section 13.3 – 13.5, pp. 188-196.

Sirohi S. and Michaelowa A. 2007. Sufferer and cause: Indian livestock and climate change. Climatic Change 85:285–298

Foley et al 2011. Solutions for a cultivated planet. Nature 478: 337-342.

Nellemann, C., MacDevette, M., Manders, T., Eickhout, B., Svihus, B., Prins, A. G., Kaltenborn, B. P. (Eds). February 2009. The environmental food crisis – The environment’s role in averting future food crises. A UNEP rapid response assessment. United Nations Environment Programme, GRID-Arendal, <http://www.grida.no/publications/rr/food-crisis/>

Aggarwal et al 2004. Adapting food systems of the Indo-Gangetic plains to global environmental change: key information needs to Environmental Science n Policy 7: 487–498.

Egger n Dixon 2014\_Beyond Obesity and Lifestyle A Review of 21st Century Chronic Disease Determinants

Regmi and Meade (2013). Demand side drivers of global food security, Global Food security, 2 (3): 166-171

**Case Studies:**

**Websites:**

**Journals:**

**Other readings:**

**Additional information (if any):** None

**Student responsibilities:**

Attendance, feedback, discipline: as per university rules.

**Course reviewers**

1. Dr. Mala Narang Reddy, Faculty (Guest), IIM-Amritsar, Punjab-05
2. Mr. V. Gunasekaran, Assistant Professor, Ramanujan College, University of Delhi-19