ICT for Development: Context, Strategies and Impacts

Thursdays 3:30pm – 5:30pm 110 South Hall
Tuesdays 5.00pm – 6.00pm 107 South Hall

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Required Texts:
- *Paul Krugman* Development, Geography, and Economic Theory Cambridge, MA: MIT Press, 1995
- *William Easterly* "The Elusive Quest for Growth: Economists' Adventures and Misadventures in the Tropics", Cambridge, MA: MIT Press, 2001
- *Hernando De Soto* "The Other Path: The Invisible Revolution in the Third World", New York: Harper & Row, 1989

Recommended Texts:
- *Mark Warschauer* "Technology and Social Inclusion: Rethinking the Digital Divide." MIT Press Cambridge.

Module 1: Theory			
Jan 19, 2006	Introductory Class: Overview of ICT class		
Jan 26, 2006	Technology and development: Background	Kaushik Basu "On the Goals of Development" and Comments by Paul Streeten and Michael Lipton in Gerald M. Meier and Joseph E. Stiglitz, eds. Frontiers of Development Economics: The Future in Perspective (Washington, DC: The International Bank for Reconstruction and Development, 2001) pp. 66-101 Sheila Jasanoff "New Modernities: Reimagining Science, Technology, and Development" (Draft manuscript) Leo Marx "Technology: The Emergence of a Hazardous Concept" Social Research Vol 64, N. 3 (Fall 1997)	
Feb 2, 2006	The Postwar project: Theories of Economic Development	Albert O. Hischmann "The Rise and Decline of Development Economics" in Essays in Trespassing: Economics to politics and beyond, Cambridge UK: Cambridge University Press, 1981, pp 1-24 Paul Krugman "Development, Geography, and Economic Theory" Cambridge, MA: MIT Press, 1995	

Feb 9, 2006	The Postwar project: Economic Development in practice	Jean Dreze and Amartya Sen "India and China" in India: Economic Development and Social Opportunity, New Delhi, Oxford University Press, 1995. pp. 57-86 William Easterly "The Elusive Quest for Growth: Economists' Adventures and Misadventures in the Tropics", Cambridge, MA: MIT Press, 2001 World Bank, "WDR-2006.World Development Report " 2006 Overview	Distribute Team Assignments
Feb 16, 2006	Technology and development: Current trends	C.K. Prahalad and Allen Hammond "What Works: Serving the Poor, Profitably: A Private Sector Strategy for Global Digital Opportunity" World Resources Institute & the Markle Foundation, 2002 Kenneth Keniston "Grassroots ICT Projects in India: Some Preliminary Hypotheses" ACSI Journal of Management Vol 31 (1&2) 2002 Hernando De Soto "The Other Path: The Invisible Revolution in the Third World", New York: Harper & Row, 1989 Sein, M. and Harindranath G. 2004. "Conceptualizing the ICT Artifact: Toward Understanding the Role of ICT in National Development" Information Society Vol.20.1: 15-25, 2004 Warschauer, M. 2004. "Technology and Social Inclusion: Rethinking the Digital Divide." MIT Press Cambridge. Chapters 1-2	
Module 2: Assessment			
Feb 23, 2006	Qualitative Needs Assessment	McGrath, Joseph E., "Methodology Matters: Doing Research in the behavioral and social sciences" Readings in Human-Computer Interaction: Toward the Year 2000 R.M. Baecker and J. Grudin and W. A. S. Buxton, ed. pp. 152-169.	
Mar 2, 2006	Quantitative Needs Assessment	Shadish, W.R. 1995. "Philosophy of Science and Quantitative-Qualitative debates: Thirteen common errors" Evaluation and Program Planning, 18, 63-75. Schaeffer, N. and Presser S. 2003. "The Science of Asking Questions" Annual Review of Scoiology 2003, 29:65-88 Handout on Internal/External Validity	
Module 3: Technical Issues			

Mar 9, 2006	Infrastructure and inexpensive computing	Blattman, C. and R. Jensen, R. Roman, "Assessing the Need and Potential of Community Networking for Development in Rural India" The Information Society, 19: 349–364, 2003 Lee, H. and O'Keefe R., Yun K. The Growth of Broadband and Electronic Commerce in South Korea: Contributing Factors. The Information Society, 19:81–93, 2003 Refurbishing: Technical Handout Donner, J. 2003. What Mobile Phones Mean to Rwandan Entrepreneurs. Mobile Democracy: Essays on Society, Self and Politics. K. Nyíri. Budapest, Hungary, Passagen Verlag: 393-410. Brewer E. et al 2005. "Case for Technology for Developing Regions" IEEE Computer June 2005	Guest Speaker: **Eric Brewer**
Mar 16, 2006	Design	Kothari B. and Pandey A., Chudgar A. 2004 "Reading Out of the 'Idiot Box': Same-Language Subtitling on Television in India" Information Technology and International Development (ITID) Vol. 2, Fall 2004: 23-44 Parikh T. and Ghosh K., Chavan A, Syal P., Arora P., Design Studies for a Financial Management System for Micro-credit Groups in Rural India, ACM Conference on Universal Usability 2003	Guest Speaker: **Marti Hearst**
Module 4: Application Areas			
Mar 23, 2006	Shared Access Computing	Roman R. 2003. "Diffusion of Innovations as a Theoretical Framework for Telecenters" Information Technology and International Development (ITID) Vol. 1, Winter 2004: 51-65 Kumar, R. "eChoupals: A Study on the Financial Sustainability of Village Internet Centers in Rural Madhya Pradesh" Information Technologies and International Development. Vol. 2:1. Spring 2004	

Apr 6, 2006	Healthcare	Ibrahim, M. and Ben Bellows, Aman Bhandari, Jaspal Sandhu. "ICT, Health, and Development." Forthcoming chapter in "ICT and Human Development", Idea publishing, 2006 Li, H.K. "Telemedicine and Ophthalmology" Survey of Ophthalmology Vol. 44: 1, Jul 1999 Johnston, K and C. Kennedy, I. Murdoch, P. Taylor, C. Cook, "The cost-effectiveness of technology transfer using telemedicine" Health Policy and Planning, 2004:19(5): pp 302-309. Jabbour, Samer and Sania Nishtar, D. Prabhakaran, Arun Chockalingam, Aloyzio Achutti, Abha Agrawal, Max A. Luna, Florencio Garofalo, Andreas Wielgosz, "Information and communication technology in cardiovascular disease prevention in developing countries: hype and hope" International Journal of Cardiology 2003 Dec; 92(2-3): 105-11 Casas, Cyntha and William LaJoie, "Voxiva: Case Study"	
Apr 13, 2006	In-class presentation		Midway Presentation
Apr 17, 2006	Education	Bracey, B. and Culver, T. eds. 2005 "Harnessing the potential of ICT for Education: Proceedings from the Dublin Global Forum of the UNICT task force" United Nations ICT4Education e-book (selections) Attewell P. and Battle J. 2002 "Home Computers and School Performance" Information Society Vol. 15.1 Knight, J. and Weir S., Woldehanna T. 2003 "The role of education in facilitating risk-taking and innovation in agriculture" Journal of Development Studies 39.6: 1-22	
Apr 24, 2006	E-Governance	Benjamin, S. and Bhuvaneshwari, R. Rajan P., Manunatha, 2005 "Bhoomi: 'E-Governance' or Anti-Politics Machine Necessary to Globalize Bangalore" CASUM-m Working Paper January 2005: 35-55	Guest Lecture
Module 5: Conclusion			

May 1, 2006	Future of ICT4D	Balaji, P. and Keniston, K. "Tentative Conclusions" Information and Communications Technologies for Development: A Comparative Analysis of Impacts and Costs Amartya K. Sen "What is Development About?" in Meier and Stiglitz, eds. op cit pp. 506-513 Charles F. Sabel and Sanjay G. Reddy "Learning to Learn: Undoing the Gordian Knot of Development Today" Heeks, R. 2002. "Information Systems and Developing Countries: Failure, Success, and Local Improvisations" Information Society Vol. 18.2: 101-112, 2002 Klein, H. 2004 "Understanding WSIS: An Institutional Analysis of the UN World Summit on the Information Society" Information Technology and International Development (ITID) Vol. 1.3 Spring-Summer 2004	
May 3, 2006	Final Presentations		
May 8, 2006	Final Presentations		
Assignments			
Assignment #1	Research and present one of the listed case studies		
Assignment #2	Research both sides of a controversial issue in ICT4D, and debate issue in class		
Assignment #3	Whitepaper on a technical, social, or policy aspect of ICT4D		
* Students will be assigned to groups of 2-3 members. These groups will be responsible for completing each of the three assignments. The instructors will assign groups based on student discipline and experience. The intention is ensure that each group is balanced.			