### An Introductory Course in Environmental and Natural Resource Economics

AIT, Bangkok, Thailand,
5th May - 22nd May, 2008

#### Timetable - Week 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Sun 4-May 5-May-08</th>
<th>Mon 6-May</th>
<th>Tue 7-May</th>
<th>Wed 8-May</th>
<th>Thu 9-May</th>
<th>Fri 10-May</th>
<th>Sat 11-May</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00-10:30</td>
<td>Welcome &amp; Intro. and Math/Micro Review - Calculus, Differentiation and Integration</td>
<td>Basic Differential Calculus</td>
<td>Elements of Welfare Economics</td>
<td>Exhaustible Resources (contd.)</td>
<td>Forestry</td>
<td>PS/TC</td>
<td>TC</td>
</tr>
<tr>
<td>10:30</td>
<td>PS/TC</td>
<td>TC</td>
<td>RNB</td>
<td>RNB</td>
<td>RNB</td>
<td>TC</td>
<td>TC</td>
</tr>
<tr>
<td>11:00-12:30</td>
<td>Unconstrained Optimization</td>
<td>Continuous time dynamic optimization</td>
<td>Elements of Welfare Economics (contd.)</td>
<td>Renewable resources - Fisheries</td>
<td>Poverty and NRM</td>
<td>TC</td>
<td>TC</td>
</tr>
<tr>
<td>12:30</td>
<td>TC</td>
<td>TC</td>
<td>RNB</td>
<td>RNB</td>
<td>PS</td>
<td>Free Day</td>
<td></td>
</tr>
<tr>
<td>1:30-2:00</td>
<td>Discussion time for research projects (RNB/TC/PS)</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>2:00-3:30</td>
<td>Constrained Optimization</td>
<td>Assignment 2: optimization</td>
<td>Project Preparation Guidelines</td>
<td>Assignment 3: Numerical Exhaustible Resources</td>
<td>Empirical Paper Presentation</td>
<td>TC</td>
<td>TC</td>
</tr>
<tr>
<td>3:30</td>
<td>TC</td>
<td>TC</td>
<td>PS</td>
<td>TC</td>
<td></td>
<td>Tea Break</td>
<td></td>
</tr>
<tr>
<td>4:00-5:30</td>
<td>Assignment 1: Math review</td>
<td>Assignment 2: Discussion</td>
<td>Exhaustible Resources</td>
<td>Fisheries (contd.)</td>
<td>Assignment 4: Forestry</td>
<td>TC</td>
<td>TC</td>
</tr>
</tbody>
</table>

RNB: RN Bhattacharya, TC: Tanzir Chowdhury, PS: Priya Shyamsundar
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### Timetable Week 2

<table>
<thead>
<tr>
<th>Day</th>
<th>Sun 11-May</th>
<th>Mon 12-May</th>
<th>Tue 13-May</th>
<th>Wed 14-May</th>
<th>Thu 15-May</th>
<th>Fri 16-May</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>9:00-10:30</td>
<td>10:30</td>
<td>11:00-12:30</td>
<td>12:30</td>
<td>1:30-2:00</td>
<td>2:00-3:30</td>
</tr>
<tr>
<td>9:00</td>
<td>Market Failures: Public Goods and Externalities</td>
<td>Non-Market Valuation and CBA</td>
<td>Productivity Changes and Valuing Health Impacts</td>
<td>Stated Preference</td>
<td>Game Theory</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>EH</td>
<td>EH</td>
<td>EH</td>
<td>EH</td>
<td>PD</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>EH</td>
<td>EH</td>
<td>PS</td>
<td>EH</td>
<td>PD</td>
<td></td>
</tr>
<tr>
<td>12:30</td>
<td>EH</td>
<td>EH</td>
<td>EH</td>
<td>EH</td>
<td>PD</td>
<td></td>
</tr>
<tr>
<td>1:30</td>
<td>Discussion time for research projects (TC/EH/PM/PS)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00</td>
<td>Assignment 5: TDP Game</td>
<td>Assignment 6: Travel Cost</td>
<td>Assignment 7: Estimating Health Costs</td>
<td>Assignment 8: CBA</td>
<td>Land Use Changes and CPR Reforms in Goa</td>
<td></td>
</tr>
<tr>
<td>3:00</td>
<td>TC/EH</td>
<td>TC/PM</td>
<td>TC/PM</td>
<td>TC/PM</td>
<td>PM</td>
<td></td>
</tr>
<tr>
<td>4:00</td>
<td>TC/EH</td>
<td>TC/PM</td>
<td>TC/PM</td>
<td>TC/PM</td>
<td>TC/PM</td>
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**Coffee Break**

**Lunch Break**

**Tea Break**

TC: Tanzir Chowdhury, EH: Enamul Haque, PD: Partha Dasgupta, PM: Pranab Mukhopadhyay, PS: Priya Shyamsundar
# Timetable Week 3

<table>
<thead>
<tr>
<th>Day</th>
<th>Sat 17-May</th>
<th>Sun 18-May</th>
<th>Mon 19-May</th>
<th>Tues 20-May</th>
<th>Wed 21-May</th>
<th>Thurs 22-May</th>
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</thead>
<tbody>
<tr>
<td>Time</td>
<td>9:00-10:30</td>
<td>Wealth and sustainable development</td>
<td>Shaeffer models and extensions</td>
<td>Willingness to pay for Marine Turtle Conservation-- A Cross</td>
<td>Accounting price for resilience</td>
<td>Project Presentation</td>
</tr>
<tr>
<td></td>
<td>10:30</td>
<td>KGM</td>
<td>KGM</td>
<td>ONS</td>
<td>KGM</td>
<td>KGM/EH/PM/PS</td>
</tr>
<tr>
<td></td>
<td>11:00-12:30</td>
<td>Estimation of accounting prices of ecosystems</td>
<td>Plaice and Beverton Holt models</td>
<td>Climate Change: Watershed and River basin management</td>
<td>Accounting price for resilience</td>
<td>Project Presentation</td>
</tr>
<tr>
<td></td>
<td>12:30-1:30</td>
<td>KGM</td>
<td>KGM</td>
<td>JR</td>
<td>KGM</td>
<td>KGM/EH/PM/PS</td>
</tr>
<tr>
<td>1:30-2:00</td>
<td>Discussion time for research projects (KGM/EH/PM/PS) / EVALUATION</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>2:00-3:30</td>
<td>CPR</td>
<td>Climate Change</td>
<td>Non convex dynamics in ecosystems</td>
<td>Project Preparation</td>
<td>Project Presentation</td>
</tr>
<tr>
<td></td>
<td>3:30</td>
<td>PD</td>
<td>PD</td>
<td>KGM</td>
<td>KGM/EH/PM/PS</td>
<td>KGM/EH/PM/PS</td>
</tr>
<tr>
<td></td>
<td>4:00-5:30</td>
<td>CPR (Contd)</td>
<td>Climate change (Contd)</td>
<td>Forestry: Classical models and non convex models</td>
<td>Project Preparation</td>
<td>Project Presentation</td>
</tr>
<tr>
<td></td>
<td>5:00-6:00</td>
<td>PD</td>
<td>PD</td>
<td>KGM</td>
<td>KGM/EH/PM/PS</td>
<td>KGM/EH/PM/PS</td>
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</tbody>
</table>