

## An Introductory Course in Environmental and Natural Resource Economics

AIT CC, Pathumthani, Thailand

3rd May - 21st May, 2010

Week 1

| Day<br>Time | 0<br>Sun<br>2-May                           | 1<br>Mon<br>3-May  | 2<br>Tue<br>4-May   | 3<br>Wed<br>5-May  | 4<br>Thu<br>6-May  | 5<br>Fri<br>7-May                             |           |
|-------------|---|--|---|--|--|---|-----------|
|             | <b>Arrival of Participants/Registration</b> | <b>1</b>   | <b>5</b>  | <b>9</b>   | <b>13</b>  | <b>17</b>                                     |           |
| 9:00-10:30  |   | Welcome & Intro. Use of Mathematics in Economics: A Review<br><i>PS/MN</i> | Introduction to Natural Resource Econ: Non-Renewables<br><i>RNB</i> | Renewable Resources - Fisheries<br><i>RNB</i>                    | Forestry<br><i>RNB</i>   | Water Resources<br><i>From AIT</i>            |           |
| 10:30       |   | <i>Coffee Break</i>  |   |  |  |   |           |
|             |   | <b>2</b>   | <b>6</b>  | <b>10</b>  | <b>14</b>  | <b>18</b>                                     |           |
| 11:00-12:30 |   | Review of Differential Calculus & Static Optimization I<br><i>MN</i>       | Non-Renewable Resources (contd)<br><i>RNB</i>                       | Fisheries (cont)<br><i>RNB</i>                                   | Common Property Resources<br><i>RNB</i>                            | Econometrics/STATA: Introduction<br><i>MN</i> |           |
| 12:30       |   | <i>Lunch Break</i>   |   |  |  |   |           |
| 1:30-2:00   |   | <i>Discussion time for research projects (PS/RNB/MN)</i>                   |   |  |  |   |           |
|             |   | <b>3</b>   | <b>7</b>  | <b>11</b>  | <b>15</b>  | <b>19</b>                                     |           |
| 2:00-3:30   |   | Review of Differential Calculus & Static Optimization II<br><i>MN</i>      | <b>Assignment 2 : Non-Renewables</b><br><i>MN</i>                   | How to design a good research project Discussion<br><i>PS/MN</i> | Forests-- Examining Policy Options in India and Nepal<br><i>PS</i> | Econometrics/STATA (contd.)<br><i>MN</i>      |           |
| 3:30        |   | <i>Tea Break</i>   |   |  |  |   |           |
|             |   | <b>4</b>   | <b>8</b>  | <b>12</b>  | <b>16</b>  | <b>20</b>                                     |           |
| 4:00-5:30   |   | <b>Assignment 1: Math/Microeconomics Review &amp; Static Optimization</b>  | Introduction to Dynamic Optimization                                | <b>Assignment 3 : Non-Renewables</b>                             | <b>Empirical Paper Presentation</b>                                | <b>Empirical Paper Presentation</b>           |           |
|             |   | <i>AK</i>  | <i>MN</i>   | <i>MN</i>  | <i>MN</i>  | <i>RNB/MN</i>                                 | <i>MN</i> |

RNB: RN Bhattacharya, PS: Priya Shyamsundar, MN: Mani Nepal; AK: Anuradha Kafle

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Week 2

| Day<br>Time  | 6<br>Sat<br>8-May                   | 7<br>Sun<br>9-May   | 8<br>Mon<br>10-May                            | 9<br>Tue<br>11-May                  | 10<br>Wed<br>12-May                            | 11<br>Thu<br>13-May                     | 12<br>Fri<br>14-May |  |
|--------------|-------------------------------------|---|---|-------------------------------------|--|---|---------------------|--|
|              |                                     | 21  | 25  | 29                                  | 33   | 37                                      |                     |  |
| 9:00-10:30   | Free Day                            | Welfare and Environmental Economics -- A Review             | Accounting for Sustainable Development        | Non convex dynamics in ecosystems   | Economics of Climate Change                    | Role of Trust in Economics              | Free Day            |  |
|              |                                     | KGM   | KGM   | KGM                                 | PD   | PD                                      |                     |  |
| 10:30        |                                     | <i>Coffee Break</i>   |   |                                     |  | <i>Group Photograph</i>                 |                     |  |
|              |                                     | 22  | 26  | 30                                  | 34   | 38                                      |                     |  |
| 11:00-12:30  |                                     | Wealth and sustainable development                          | Estimation of accounting prices of ecosystems | Social norms and social capital     | Climate Change & Social Discounting            | Place of Nature in Economic Development |                     |  |
|              |                                     | KGM   | KGM   | PD                                  | PD   | PD                                      |                     |  |
| 12:30 - 1:30 |                                     | <i>Lunch Break</i>  |   |                                     |  |   |                     |  |
| 1:30-2:00    |                                     | <i>Discussion time for research projects (PS/PD/KGM/MN)</i> |   |                                     |  |   |                     |  |
|              |                                     | 23  | 27  | 31                                  | 35   | 39                                      |                     |  |
| 2:00-3:30    |                                     | Reading Time  | Project Discussion                            | Reading Time                        | <b>Climate Change -- Modeling Impacts</b>      | <b>Four cities study</b>                |                     |  |
|              |                                     | Group   | PS/MN/KG/PD                                   | Group                               | Satya Priya                                    | PS                                      |                     |  |
| 3:30         |                                     | <i>Coffee Break</i>   |   |                                     |  |   |                     |  |
|              | 24                                  | 28  | 32  | 36                                  | 40   |   |                     |  |
| 4:00-5:30    | <b>Empirical Paper Presentation</b> | <b>Empirical Paper Presentation</b>                         |   | <b>Empirical Paper Presentation</b> | <b>Atmospheric Brown Clouds (ABC) &amp; CC</b> |   |                     |  |
|              | KGM/MN                              | KGM/MN  |   | Prasad Kasibhatla                   | PD/MN  | Maheswar Rupakehti                      |                     |  |
| 8:00- 9:30p  |                                     |   |   | <b>Climate Change 101</b>           |  |   |                     |  |

KGM: Karl Goran Maler, PD: Partha Dasgupta, PS: Priya Shyamsundar, MN: Mani Nepal

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**Week 3**

| Day<br>Time | 13<br>Sat<br>15-May                 | 14<br>Sun<br>16-May   | 15<br>Mon<br>17-May              | 16<br>Tue<br>18-May                             | 17<br>Wed<br>19-May  | 18<br>Thu<br>20-May  | 19<br>Fri<br>21-May |
|-------------|-------------------------------------|---|----------------------------------|---|----------------------|----------------------|---------------------|
|             | Free Day                            | 41  | 45                               | 49  | 53                   | 57                   | Departure           |
| 9:00-10:30  |                                     | Non-Market Valuation and CBA                                | Stated Preference: CVM           | Discrete Choice Modeling & RUM                  | Project Presentation | Project Presentation |                     |
|             |                                     | EH  | EH                               | EH  | EH/PS/MN             | EH/PS/MN             |                     |
| 10:30       |                                     |   |                                  |   |                      |                      |                     |
|             |                                     | 42  | 46                               | 50  | 54                   | 58                   |                     |
| 11:00-12:30 |                                     | Revealed Preferences: Travel Cost Method and Hedoic methods | <b>Case study: Marine Turtle</b> | Productivity Changes and Valuing Health Impacts | Project Presentation | Project Presentation |                     |
|             |                                     | EH  | Orapan Nabangchang               | EH  | EH/PS/MN             | EH/PS/MN             |                     |
| 12:30       |                                     | <i>Lunch Break</i>  |                                  |   |                      |                      |                     |
| 1:30-2:00   |                                     | <i>Discussion time for research project (PS/EH/MN)</i>      |                                  |   |                      |                      |                     |
|             |                                     | 43  | 47                               | 51  | 55                   | 59                   |                     |
| 2:00-3:30   |                                     | Assignment 4: Travel Cost                                   | Assignment 5: Hedonics           | Project Preparation                             | Project Presentation | Project Presentation |                     |
|             |                                     | MN  | MN                               | Participants                                    | EH/PS/MN             | EH/PS/MN             |                     |
| 3:30        |                                     |   |                                  |   |                      |                      |                     |
|             |                                     | 44  | 48                               | 52  | 56                   | 60                   |                     |
| 4:00-5:30   | <b>Empirical paper Presentation</b> | <b>Integrating Climate Models with Economic Analysis</b>    | Project Preparation              | Project Presentation                            | <b>Evaluation</b>    |                      |                     |
|             | EH/MN                               | EH  | Participants                     | EH/PS/MN  | EH/PS/MN             |                      |                     |

EH: Enamul Haque, PS: Priya Shyamsundar, MN: Mani Nepal