



# बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsā Munda Tribal University

राजपिपला, जि० नर्मदा Rajpipla, Dist. Narmda

Established by Tribal Development Department, Govt. of Gujarat

## School of Arts

### M.A. (Economics) Programme

Subject Code: MA01CECO04 & Environmental Economics

### Teaching and Evaluation Scheme:

| Teaching Scheme |   |   |       | Examination Scheme  |     |     |     |
|-----------------|---|---|-------|---------------------|-----|-----|-----|
| Credits         |   |   |       | Component Weightage |     |     |     |
|                 |   |   |       | CCE                 |     | SEE |     |
| L               | T | P | Total | TH                  | PWE | TH  | PWE |
| 4               | - | - | 4     | 50                  | -   | 50  | -   |

|                                  |                             |
|----------------------------------|-----------------------------|
| Programme Name                   | Masters of Arts (Economics) |
| Semester                         | I                           |
| Course Code                      | MA01CECO04                  |
| Course Title                     | Environmental Economics     |
| Course Content Type<br>(Th./Pr.) | Theory                      |
| Course Credit                    | 4                           |
| Sessions+ Lab. Per Week          | 4 Sessions + N.A.           |
| Total Teaching/Lab. Hours        | 60 Hours                    |
| * 2 Laboratory = 1 Session       |                             |

### Learning Objectives

1. To understand the concepts and importance of Environmental Economics.
2. To study the relationship between economic development and environmental issues.
3. To explain the concept of sustainable development and environmental security.
4. To analyze environmental problems and policies in India and at the global level.

### Prerequisites (if any)

### Learning Outcomes

After completing this course, students will be able to understand:

1. The basic principles and scope of Environmental Economics.
2. The impact of economic activities on environmental resources.



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3. The concepts of sustainable development and environmental security.
4. Evaluate environmental problems and environmental policies at national and global levels.

| Detailed Contents |                                                                                                                                                                                                                                                                                                                                                                                                 |                |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| UNIT              | TOPIC/SUB-TOPIC                                                                                                                                                                                                                                                                                                                                                                                 | TEACHING HOURS |
| I                 | <b>Introduction to Environmental Economics</b> <ul style="list-style-type: none"> <li>❖ Meaning and definitions of Environmental Economics</li> <li>❖ Nature of Environmental Economics</li> <li>❖ Decision Making and Environmental Economics</li> <li>❖ Impact of economic development on the environment</li> </ul>                                                                          | 15             |
| II                | <b>Sustainable Economic Development</b> <ul style="list-style-type: none"> <li>❖ Meaning and definitions of Sustainable Economic Development</li> <li>❖ Determinants and directors of Sustainable Development</li> <li>❖ Growth and Sustainable Development</li> <li>❖ Environmental Security and Development Problems</li> <li>❖ Environmental Security and Sustainable Development</li> </ul> | 15             |
| III               | <b>Indian Environmental Problems</b> <ul style="list-style-type: none"> <li>❖ Problems of Industrialization and Pollution in India</li> <li>❖ Deforestation and Environmental Problems in India</li> <li>❖ Water Resources and Environmental Problems in India</li> <li>❖ Agricultural Development and Environmental Problems</li> </ul>                                                        | 15             |
| IV                | <b>Environmental Policy</b> <ul style="list-style-type: none"> <li>❖ Review of Environmental policies at Global level- UNFCCC, Conference of Parties - Montreal protocol</li> <li>❖ Paris Agreement and India</li> <li>❖ Environmental Regulation in India</li> <li>❖ Environmental Protection Act - Air pollution act- Water Pollution act</li> <li>❖ Role of SPCBs and CPCB</li> </ul>        | 15             |



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### Text Book(s)

1. પટેલ.આર., (૨૦૧૬). પર્યાવરણનું અર્થશાસ્ત્ર. અમદાવાદ: યુનિવર્સિટી ગ્રંથનિર્માણ બોર્ડ.
2. શાહ. ડી. એમ., (૨૦૧૮). પર્યાવરણ અને અર્થવ્યવસ્થા. અમદાવાદ: નવભારત સાહિત્ય મંદિર.
3. દેસાઈ. એચ. કે., (૨૦૧૫). પર્યાવરણનો અભ્યાસ. અમદાવાદ: ગુજરાત યુનિવર્સિટી.
4. ત્રિવેદી. એમ. પી., (૨૦૧૭). પ્રાકૃતિક સંપત્તિ અને અર્થશાસ્ત્ર. રાજકોટ: પ્રવીણ પ્રકાશન.

### Reference Books

1. Bhattacharya, R. N. (Ed.). (2001). *Environmental economics*. Oxford University Press.
2. Field, B. C., & Field, M. K. (2021). *Environmental economics: An introduction* (8th ed.). McGraw-Hill Education.
3. Hanley, N., Shogren, J. F., & White, B. (2007). *Environmental economics: In theory and practice* (2nd ed.). Palgrave Macmillan.
4. Kolstad, C. D. (2011). *Intermediate environmental economics* (2nd ed.). Oxford University Press.
5. Perman, R., Ma, Y., Common, M., Maddison, D., & McGilvray, J. (2011). *Natural resource and environmental economics* (4th ed.). Pearson Education.
6. Sankar, U. (Ed.). (2001). *Environmental economics*. Oxford University Press.
7. Tietenberg, T., & Lewis, L. (2018). *Environmental and natural resource economics* (11th ed.). Routledge.

### Web Resources

### Required Software(s) (if any)

### Practical(s) (if any)

**L::** Lecture, **T::** Tutorial, **P::** Practical

**CCE::** Continuous and Comprehensive Evaluation

(CCE) Theory includes Mid Semester Examination, Assignment, MCQ quizzes, Seminar, Reflective notes, class participation, case analysis and presentation, slip tests (announced/surprised), attendance etc. or any combination of these)

**PWE::** Practical Work Examination

(PWE includes Laboratory practical work, project work, viva simulation exercise work etc.)

**SEE::** Semester End Evaluation

