

Revised
SYLLABUS FOR
Bachelor of Science (Honours)

**ABILITY ENHANCEMENT
COMPULSARY COURSE**

THREE YEAR DEGREE COURSE
SEMESTER SYSTEM

(Under New UGC CBCS Guidelines)

ABILITY ENHANCEMENT COMPULSORY COURSE

AECC (ECA 1.11)

ENGLISH COMMUNICATION

Theory Credits: 2

UNIT I Introduction

Theory of Communication, Types and Modes of Communication

UNIT II Language of Communication

Verbal and Non-verbal (Spoken and Written)

Personal, Social and Business

Barriers and Strategies

Intra-personal, Inter-personal and Group Communication

UNIT III Speaking Skills

Monologue

Dialogue

Group Discussion

Effective Communication/Miscommunication

Interview

Public Speech

UNIT IV Reading and Understanding

Close Reading

Comprehension

Summary Paraphrasing

Analysis and Interpretation

UNIT V Writing Skills

Documenting (Including Working Bibliography, Footnotes)

Letter Writing (Job application with CV)

Recommended Books and References:

1. *Fluency in English part II*, OUP, 2006.
2. *Business English*, Pearson, 2008
3. *Language, Literature and Creativity*, Orient Blackswan, 2013.
4. *Language Through Literature*. Ed. Dr Gauri Mishra, Dr Ranjan Kaul, Dr Brati Biswas
5. *MLA Handbook for Writers of Research Papers* (5th Edn) Joseph Gibaldi, EWP, 2000.

AECC (TEA 1.11)
TENYIDIE

Theory Credits: 2

Kemerü Mhirü: *Kepethamia kehoupuorei shüphrüchie chiekeshüko nu puo kemevi kicüpuo puo se parlie vi shi le menuo di kephrünuomia ki pushülie.*

ZATSE I Keriekimia teikijü lisi – thuo 14 (Pethakecü tei – bavüdo 9) Pede Ketsokecü yopuo la thuo 10 mu petse ketsokecü la thuo 4.

1. *Kerheimvü* - Shürhozelie Liezietsu

ZATSE II Tenyimia Kelhouzho Dze – thuo 14 (Pethakecü tei – bavüdo 9) Pede Ketsokecü yopuo la thuo 10 mu petse ketsokecü la thuo 4.

1. *Tenyimia Kelhou dze* - Neichüriazo Chücha

ZATSE III Noudo Dze – thuo 14 (Pethakecü tei – bavüdo 9) Pede Ketsokecü yopuo la thuo 10 mu petse ketsokecü la thuo 4.

1. *Kedietho Capi* - Kekhrievö-ü Yhome

ZATSE IV Geizo – thuo 14 (Pethakecü tei – bavüdo 9) Pede ketsokecü yopuo la thuo 10 mu petse ketsokecü la thuo 4.

1. Tso-o mu Terhuopudiü

2. Tsuse

3. Thenu nie we

4. Tehoubo (Haigwang)

5. Shüphrü tei kevi (Medo)

6. U tsiepfumia (D. Kuolie)

ZATSE V Tenyidie khuthuzho dze – thuo 14 (Pethakecü tei – bavüdo 9) Pede Ketsokecü yo puo la thuo 10. Mu petse ketsokecü la thuo 4.

1. Tenyidie Khuthuzho - D. Kuolie

Kephrüdako:

- | | | |
|--------------------------|------------------------------|--------------------|
| 1. Shürhozelie Liezietsu | : <i>Kerheimvü</i> | - UAP, Kohima 2006 |
| 2. Neichüriazo | : <i>Tenyimia Kelhou dze</i> | - UAP, Kohima 2008 |
| 3. Kekhrievöü Yhome | : <i>Kedietho Capi</i> | - UAP, Kohima 2002 |
| 4. Shürhozelie Liezietsu | : <i>Üca 53</i> | - UAP, Kohima 2006 |
| 5. Shürhozelie Liezietsu | : <i>U Teiki Geizo</i> | - UAP, Kohima 1989 |
| 6. D. Kuolie | : <i>Tenyidie Khuthuzho</i> | - UAP, Kohima 2006 |

AECC (ESA 2.11)
ENVIRONMENTAL SCIENCE

Credits: 2

UNIT I Introduction to environmental studies (2 lectures)

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and sustainable development.

UNIT II Ecosystems (6 lectures)

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems:
 - a) Forest ecosystem
 - b) Grassland ecosystem
 - c) Desert ecosystem
 - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

UNIT III Natural Resources: Renewable and Non-renewable Resources (8 lectures)

- Land resources and land use change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.
- Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources: Renewable and nonrenewable energy sources, use of alternate energy sources, growing energy needs, case studies.

UNIT IV Biodiversity and Conservation (8 lectures)

- Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

UNIT V Environmental Pollution (8 lectures)

- Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste.
- Pollution case studies.

UNIT VI Environmental Policies & Practices (7 lectures)

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).

- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.

UNIT VII Human Communities and the Environment (6 lectures)

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquake, cyclones and landslides.
- Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

UNIT VIII Field work (Equal to 5 lectures)

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

Recommended Books and References:

1. Carson, R. 2002. *Silent Spring*. Houghton Mifflin Harcourt.
2. Gadgil, M., & Guha, R. 1993. *This Fissured Land: An Ecological History of India*. Univ. of California Press.
3. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
4. Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
5. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
6. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36-37.
7. McCully, P. 1996. *Rivers no more: the environmental effects of dams* (pp. 29-64). Zed Books.
8. McNeill, John R. 2000. *Something New Under the Sun: An Environmental History of the Twentieth Century*.
9. Odum, E.P., Odum, H.T. & Andrews, J. 1971. *Fundamentals of Ecology*. Philadelphia: Saunders.
10. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. *Environmental and Pollution Science*. Academic Press.
11. Rao, M.N. & Datta, A.K. 1987. *Waste Water Treatment*. Oxford and IBH Publishing Co. Pvt. Ltd.
12. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. *Environment*. 8th edition. John Wiley & Sons.
13. Rosencranz, A., Divan, S., & Noble, M. L. 2001. *Environmental law and policy in India*. Tripathi 1992.
14. Sengupta, R. 2003. *Ecology and economics: An approach to sustainable development*. OUP.
15. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. *Ecology, Environmental Science and Conservation*. S. Chand Publishing, New Delhi.
16. Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. *Conservation Biology: Voices from the Tropics*. John Wiley & Sons.
17. Thapar, V. 1998. *Land of the Tiger: A Natural History of the Indian Subcontinent*.
18. Warren, C. E. 1971. *Biology and Water Pollution Control*. WB Saunders.
19. Wilson, E. O. 2006. *The Creation: An appeal to save life on earth*. New York: Norton.
20. World Commission on Environment and Development. 1987. *Our Common Future*. Oxford University Press.