

## PRINCIPAL SUBJECT AREA

### BIOLOGY

**BT Course Units - See under Botany**

**MB Course Units - See under Molecular Biology & Biotechnology**

**ZL Course Units – See under Zoology**

#### **BL 401 Evolutionary Biology (2 Credits)**

History of evolutionary biology; Phylogenetic and ecological bases of evolution; Geography of evolution; Evolutionary processes in populations and species; Molecular evolution and Macroevolution; Human evolution.

#### **Recommended Texts:**

1. Monroe W. Strickberger, *Evolution (3rd Edition)*, Jones & Bartlett Publishers (2000) ISBN 0-7637-1066-0
2. Dan Graur & Wen-Hsiung Li, *Fundamentals of Molecular Evolution (Second Edition)*, Sinauer Associates, Inc. ISBN 0-87893-266-6
3. Michael R. Rose and Laurence D. Mueller, *Evolution and Ecology of the Organism*, Prentice Hall (2005) ISBN 0-13-010404-3
4. Douglas J. Futuyma, *Evolutionary Biology (3rd Edition)*, Sinauer Associates (1998) ISBN 0-87893-189-9
5. Douglas J. Futuyma, *Evolution*, Sinauer Associates (2005) ISBN 0-87893-187-2
6. Mark Ridley, *Evolution (3rd edition)*, Blackwell (2003) ISBN 1-4051-0345-0 Scott R. Freeman and Jon C. Herron, *Evolutionary Analysis*, Prentice Hall (2003) ISBN 0-13-101859-0

#### **BL 402 Scientific Writing & Ethics (1 credit)**

Writing Scientific Papers; Organization and Content; Guidelines for writing under different headings; Plagiarism in scientific writing.

#### **BL 403 Independent Study (1 credit)**

(Equivalent to BT 414)

A structured programme to encourage active student learning and develop their communication and presentation skills. The students obtain an in-depth understanding of given topics of botanical interest by literature survey and reading recommended research/scientific articles and deliver seminar/s.

#### **BL 404 Research Project (6 credits)**

A research project on a biological topic shall be carried out in the final year under the supervision of staff members. The student is expected to carry out a literature survey, write the Research Proposal and present it. On completion of the project, make an oral presentation of the work and submit a written report.