



Code	Subject Title	Cr. Hrs	Semester
<b>ZOOL-401</b>	<b>Principle of Systematics</b>	<b>2</b>	<b>VII</b>
Year	Discipline		
<b>4</b>	<b>Zoology</b>		

### Course Contents

Contribution of systematics to Biology: Concepts of taxon, phenon and category, species concepts and its problems (Typological; Nominalistic, Biological, Evolutionary). Subspecies concept, Clines and hybrid zones, Polytypic species, super species. Modes of speciation. Intrapopulation variation. Different kinds of taxonomic characters. Weightage of taxonomic characters. Classification and its types; Phenetic, Cladistic and evolutionary classification. Difference between types of classification. Taxonomic collections and the process of identification. Types of taxonomic publications, major features of taxonomic articles. The rules of zoological nomenclature (interpretation and application of the code (stability, priority, first reviser principle) range of authority of code; concept of availability, type method formation of specific names, synonym, homonym.

### Recommended Books

- Mayr, E. and Ashlock, P.D., (Latest edition). Principles of Systematic Zoology, McGraw-Hill Inc. New York.
- Simpson, G.G., (Latest edition). Principles of Animal Taxonomy, Columbia University Press, N.Y.
- Soka, R., and Snaeth P.H.A. (Latest edition). Principles of numerical taxonomy. W.H. Freeman and company, London.
- Kapoor, V.C. Principles and practices of animal Taxonomy. Science Publishers, 2nd Ed.