

Course Code	Course Title	C	H	I	E	T
17U1ZMC1	LIFE AND DIVERSITY OF INVERTEBRATES	5	5	25	75	100

Unit -1 **15 Hrs**

Protozoa - General characters and classification up to classes with examples –*Amoeba*: locomotion, nutrition, reproduction - Life history of *Plasmodium* - Brief account on parasitic protozoans:*Entamoeba*, *Trypanosoma* and *Leishmania*.

Porifera - General characters and classification up to classes - Structure of simple sponge – General characters of *Olythus*- Canal system in sponges.

Unit -2 **15 Hrs**

Coelenterata - General characters and classification up to classes with examples - Organization of Polyps and Medusa - Polymorphism in Hydrozoa - Corals and Coral reefs.

General characters and affinities of ctenophora.

Helminthes - General characters and classification up to classes with examples -*Taenia solium*: Scolex –*Wucheria*: General features, Elephantiasis – Parasitic adaptation in helminthic worms.

Unit -3 **15 Hrs**

Annelida - General characters and classification up to classes with examples - Earth worm: General characteristic features, Metamerism, Nervous system and Excretory system – Leech:Coelom, Nephridia.

Unit -4 **15 Hrs**

Arthropoda - General characters and classification up to classes with examples – Cockroach: Digestive system and circulatory system - Peripatus as a connective link- Appendages of prawn - Mouthparts of insects and larval forms of insects - Types of metamorphosis in insects and role of hormones in brief.

Unit -5 **15 Hrs**

Mollusca - General characters and classification up to classes with examples - Torsion in gastropods.

Echinodermata - General characters and classification up to classes with examples - Star fish: water vascular system - Echinoderm larvae and their significance.

Text book:

1. Nair, N.C., S. Leelavathy, N. Soundarapandian, T. Murugan, and N. Arumugam. 2006. A text book of Invertebrates, Saras Publication, Nagercoil.

Reference books:

1. Kotpal, R.L. 2012. Modern Text Book of Zoology Invertebrates, Rastogi Publications, Meerut.
2. Parker & Hashwell, Textbook of Zoology Vol. I (Invertebrates) A.Z.T.B.S. Publishers & Distributors, New Delhi.
3. Jordan, E.L. and P.S.Verma. 2013. Invertebrate Zoology, S. Chand & Co. Ltd. New Delhi.
4. Hickman C. P. Jr., Hickman & L.S. Roberts. Integrated principles of zoology, Mosby college publication. St. Louis.
5. Iyer, E.K., And T.N. Ananthkrishnan, Manual of zoology Vol. I, Invertebrata, Part I and II S.Viswanathan (Printers and Publishers) Pvt. Ltd. Madras.