Code	Subject Title	Cr. Hrs	Semester
ZOOL-312	Analysis of Development	2	VI
Year	Discipline		
3	Zoology		

Cellular Basis of Morphogenesis: Differential cell affinity, cell adhesion molecules; Mechanism of Cellular Differentiation: RNA processing, translational regulation of developmental process, cell-fate by progressive determinants, autonomous cell specification by cytoplasmic determinants, establishment of body axes and mechanism of teratogenesis; Secondary Induction; Organogenesis: A brief account; Origin and Migration of Germ Cells in Vertebrates; Factors controlling Growth and Oncogenesis. Hormones as Mediators of Development; Regeneration in Vertebrates.

Textbook

1. Gilbert, S. F., 2008. Developmental Biology, Sinauer Associates, Sunderland, MA.
2. Balinsky, B. I., 1985. An Introduction to Embryology, Saunders.

Additional Readings

1. Saunders, J. W., 1982. Development Biology, McMillan.
2. Oppenheimer, S.S., 1984. Introduction to Embryonic Development, Allen and Bacon.
3. Bodemer, C. W., 1968. Modern Embryology. Holt, Rinehart and Winston.
4. Ham, R. G. and Veomett, M. J., 1980. Mechanism of Development. C.V. Mosby Co.
5. Berril, N. J. and Karp, G., 1978. Development. McGraw Hill.