

- Preparation of a conducting polymer nanocomposites.
- Preparation polymeric semiconductor

Essential/recommended readings

- Skotheim T.A., Elsenbaumer R.L., Reynolds J.R., (1998) Handbook of conducting polymers, Vol. 1 and Vol. 2, Marcel Dekker.
- Nalwa H.S., (1977) Organic Conductive Molecules and Polymers, John Wiley & Sons.
- Bredas J.L., Silbey R., (1991) Conjugated Polymers: The Novel Science and Technology of Highly Conducting and Nonlinear Optically Active Materials, Kluwer Academic Publishers.
- Bikales M., Menges O.B., (1986) Encyclopedia of Polymer science and Engineering, Second Edition, Vol.5, John Wiley & Sons.

Suggestive readings

- Lyons M.E.O., (1994) Electroactive polymers, Plenum Press.
- Margolis J., (1993) Conducting Polymers and Plastics, Chapman & Hall.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

Nomenclature of certificate/diploma/degrees:

- ✓ After securing 44 credits (from semester I and II), by completing one year of study of the UG Programme with Political Science as a single core discipline, if a student exits after following due procedure, he or she shall be awarded **Undergraduate Certificate in Polymer Science.**
- ✓ After securing 88 credits (from semester I, II, III & IV), by completing two years of study of the UG Programme with Political Science as a single core discipline, if a student exits after following due procedure, he or she shall be awarded **Diploma in Polymer Science.**
- ✓ After securing 132 credits (from semester I to VI), by completing three years of study of the UG Programme with Political Science as a single core discipline, if a student exits after following due procedure, he or she shall be awarded **Bachelor of Science (Honours) in Polymer Science.**
- ✓ After securing 176 credits (from semester I to VIII), by completing four years of study of the UG Programme with Political Science as a single core discipline and writes dissertation, the student shall be awarded **Bachelor of Science (Honours with Research) in Polymer Science.**
- ✓ After securing 176 credits (from semester I to VIII), by completing four years of study of the UG Programme with Political Science as a single core discipline and engages in Academic Project/Entrepreneurship, the student shall be awarded **Bachelor of Science (Honours with Academic Project/Entrepreneurship) in Polymer Science.**