

MS(R) in Polymer Science and Technology

The MS(R) programme in Polymer Science and Technology has been designed to provide a rigorous background on the theoretical as well as practical aspects of sustainable polymers. With enormous renewable feedstock available in Northeast India, the students of this programme will be in a unique position to harness this benefit and offer innovative deliverable solutions for the development and application of sustainable polymers. Additionally, this geographical advantage would also provide them an avenue to explore entrepreneurship opportunities and contribute to the development of this region.

Course Curriculum Structure

Semester 1:

Course Name	L-T-P-C
SP 501: Introduction to Sustainable Polymers	3-0-0-6
SP 502: Polymer Processing and Rheology	3-0-0-6
SP 503: Polymer Synthesis and Characterization	3-0-0-6
SP 511: Polymer Processing and Rheology Laboratory	0-0-3-3
SP 512: Polymer Synthesis and Characterization Laboratory	0-0-3-3
	Total Credits: 24

Semester 2:

Course Name	L-T-P-C
XX XXX: Elective-I	3-0-0-6
XX XXX: Elective-II	3-0-0-6
SP 697: Project - I	0-0-12-12
	Total Credits: 24

Semester 3:

Course Name	L-T-P-C
SP 698: Project - II	0-0-24-24
	Total Credits: 24

Semester 4:

Course Name	L-T-P-C
SP 699: Project - III	0-0-24-24
	Total Credits: 24

Several existing courses will be available to the students for electives, such as:

- Biomaterials: Design and Applications – ME 671
- Composite Materials – CL 630
- Molecular Simulation: Principles and Application – CL 622
- Polymer Science and Technology – CL 623
- Solid and Hazardous Waste Management – CE 525
- Bioprocess Engineering – BT 609