



Department of Polymer Sciences
Bhaskaracharya College of Applied Sciences
(University of Delhi)
Sec -2, Phase - 1, Dwarka, New Delhi -110075

About the Department

B.Sc. (H) Polymer Science course was introduced in University of Delhi at Bhaskaracharya College of Applied Sciences during 2004-05 and the first batch obtained degree in 2007. The broad components of course include Polymer Technology, Polymer Processing Fibre Science, Rubber Technology, Chemical Technology and Polymer Blends & Composites. This program is designed to provide fundamental understanding of polymer science, engineering and technology. The Department of Polymer Science has well equipped Laboratories to train the students with synthesis, processing and testing of different types of polymers. The course gives exposure of the latest developments in the field of polymeric materials to the students and therefore equips them to cater needs of the fast expanding polymer industry in India & Abroad. Pass out students are being well placed in various Polymer Industries and Academic Institutions in India and abroad

The syllabus is designed in to give ample understandings of theoretical as well as experimental studies of polymer science enabling students to compete at the global level. Students also get opportunity for doing internship in industries and research organizations during their course of study. Further, students are also trained in handling, maintenance and trouble-shooting of various equipments available in the Laboratories. A few noteworthy equipments available in Laboratories are TGA/DTA, FT-IR Spectrometer, Universal Testing Machine, Injection Molding Machine, Two-Roll Mill, Single Screw Extruder, Heat Distortion Temperature apparatus etc.

Department of Polymer Science, BCAS, Dwarka

Admission Eligibility Criteria

An aggregate of 55% or more marks in Physics, Chemistry and Mathematics and 50% or more marks in English at 10+2 level

Faculty Details

S.No	Name of Faculty	Qualifications	Specialization
1)	Dr. S.K. Shukla	Ph.D. (Gorakhpur Univ.)	Polymer Characterization
2)	Dr. Sidharth Sirohi (Teacher-In-Charge)	Ph.D. (IIT Delhi)	Controlled Polymerization, Composite Nanomaterials & Nanofibres
3)	Susmita Dey Sadhu	Ph.D. (IIT Kharagpur)	Rubber Technology



Semester-wise distribution of Courses under CBCS (Revised)

SEMESTER I		SEMESTER II	
C1	Introduction to Polymer Science	C3	Polymer Technology
C2	Raw Materials of Polymers	C4	Unit Operations
AECC1	English/MIL Communication or EVS	AECC2	EVS or English/MIL Communication
GE1	Generic Elective	GE2	Generic Elective
SEMESTER III		SEMESTER IV	
C5	Polymer Rheology	C8	Polymer Processing & Mold Design

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C6	Polymer Additives	C9	Polymer Testing
C7	Polymer Degradation	C10	Recycling and Waste Management
SEC1	Skill-Enhancement Elective Course	SEC2	Skill-Enhancement Elective Course
GE3	Generic Elective	GE4	Generic Elective
SEMESTER V		SEMESTER VI	
C11	Polymer Characterization	C13	Polymer Blends and Composites
C12	Specialty Polymers	C14	Fibre Science and Rubber Technology
DSE1	Discipline Specific Elective	DSE3	Discipline Specific Elective
DSE2	Discipline Specific Elective	DSE4	Discipline Specific Elective

Abbreviations used for Course

C	Core Course
AECC	Ability Enhancement compulsory Course
GE	Generic Elective course
SEC	Skill Enhancement Elective Course
DSE	Discipline Specific Elective course

<p>SEC: Skill-Enhancement Elective Courses <i>(any one paper per semester in semesters 3rd and 4th)</i></p>	<p>SEC1: Biopolymers SEC2: Estimation of Polymers and Polymeric Compounds SEC 3: Wire and Cable Technology SEC4: Footwear Technology</p>
<p>DSE: Discipline Specific Elective <i>(any two paper per semester in semesters 5th and 6th)</i></p>	<p>DSE 1: Conducting Polymers DSE2: Fibre Manufacturing Technology DSE3 : Paints, Coatings and adhesives DSE4: Polymeric Nanomaterials DSE5: Tyre Technology DSE6: Packaging Technology DSE7: Fabrication of Polymeric products DSE8: Polymer in Biomedical Applications DSE9: Dissertation</p>
<p>GE : Generic Electives <i>(any one paper per semester in semesters 1st to 4th.</i></p>	<p>GE1: Chemistry of Polymers (for academic year 202-21)</p>

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Category wise seat distribution					
Total Seats	UR	SC	ST	OBC	EWS
59	24	9	4	16	6