

PROGRAMS OFFERED BY PST

Bachelor of Engineering (BE) in PST

Eligibility Criteria - Science stream students completing 2nd PUC/ 12th Standard and must appear in entrance exams like CET/ Comed-K. Diploma students (Polymer Technology) can seek admission to 2nd year B.E., through lateral entry as per DTE (GOK) norms.

Master of Technology (M.Tech)

M.Tech (Polymer Science and Technology)

Eligibility Criteria - Eligibility Criteria - B.E./ B.Tech., in the allied streams, namely Polymer Tech., Plastic Tech., Rubber Tech., Textile Tech., Ceramic Tech., Mechanical Engg., IP, IEM, Material Sci. & Engg., Chemical Engg., and M.Sc. (Polymer Science, Material Science, Chemistry, and Industrial Chem.,) with valid PGCEt/GATE score / JSSSTU entrance test.

M.Tech (Material Science and Engineering)

Eligibility Criteria - B.E./B.Tech., in the allied streams, namely Polymer Tech., Plastic Tech., Rubber Tech., Textile Tech., Mechanical Engg., Manufacturing Tech., IP, IEM, EEE, ECE, IT, Civil Engg., Material Sci. & Engg., Chemical Engg., and M.Sc. (Polymer Science, Material Science, Chemistry, Industrial Chem., and Physics) with valid PGCEt/ GATE score/JSSSTU entrance test.

M.Sc. Engineering by Research

as per the norms of :

- JSS Science & Technology University; OR
- Visvesvaraya Technological University.

Ph.D.

Eligible candidate can pursue Ph.D., degree at dept. of PST either on part-time basis (for working scholars) or on full-time basis (for non-working individuals or industry sponsored candidates) under the recognized supervisors as per any of the following three university norms:

- JSS Science & Technology University, Mysuru OR
- Visvesvaraya Technological University, Belagavi OR
- University of Mysore, Mysuru.

DEPARTMENTAL ACHIEVEMENTS & HIGHLIGHTS

- ◆ SJCE is the only institute in Karnataka offering technical degree in 'Polymer Science and Technology'.
- ◆ Department has completed good number of R&D sponsored projects from UGC, CSIR, DST, DRDO, VGST, KSCST and others.
- ◆ Department supports all round activities through Polymer Engineering Student's Association (PESA).
- ◆ PST is the nodal point for Indian Plastics Institute (IPI) Mysuru Chapter & Indian Rubber Institute (IRI), Karnataka Branch.
- ◆ Department conducts Triennial national conference POLYCON.
- ◆ Department has research collaboration with Universities in South Korea, Brazil, USA; and MOUs with CBNU, Korea and IRI.

OPPORTUNITIES

- Higher studies or research at premium research institutes/ universities;
- **Job at MNCs/ Industries** : Manufacturing, design, technical marketing, quality control, product development, etc.;
- Entrepreneurship or academic.

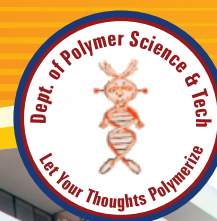
CORRESPONDENCE

Hon. Vice Chancellor : jss.st.university@gmail.com
 Registrar : registrarjssstu@gmail.com
 Principal/ Dean : principal@sjce.ac.in
 Head : Dr. Siddaramaiah
 E-mail : pst@sjce.ac.in
 Fax : 091-821-2548290,
 Phone : 091-821-2548285-89
 Mob : +91 9972095262
 Website : www.polymerjss.in

JSS MAHAVIDYAPEETHA



DEPARTMENT OF POLYMER SCIENCE & TECHNOLOGY



**Sri Jayachamarajendra College of Engineering,
JSS Science and Technology University**

JSS Technical Institutions Campus,
Mysuru – 570 006, Karnataka, India.

website: www.jssstuniv.in, www.sjce.ac.in, www.polymerjss.in

JSS MAHAVIDYAPEETHA

The core purpose of the JSS Mahavidyapeetha is to transform lives through the philosophy of “education for all”. This is serving remarkably in religious, social, educational and economic spheres (jssonline.org/jss).

ABOUT THE UNIVERSITY

In accordance with GOK's Vision, JSS Mahavidyapeetha has established Jagadguru Sri Shivarathreeswara Science and Technology University at Mysuru in 2016 with a vision 'to be an effective instrument in enhancement of knowledge in the society and thus the social transformation', through National Focus, Global reach & multidisciplinary approaches. (jssstuniv.in); The campus is one of the major landmarks of the western part of Mysuru, with its sprawling 117 acres with several recognizable buildings.

ABOUT THE INSTITUTE

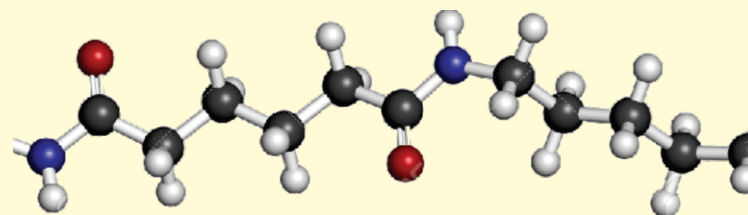
Sri Jayachamarajendra College of Engineering (SJCE) was established in 1963 with a motto “A commitment to Technical Education”. SJCE was affiliated with University of Mysore till 1997 and subsequently to Visvesvaraya Technological University. SJCE was accorded autonomous status in 2007. Presently SJCE is under the Jagadguru Sri Shivarathreeswara Science and Technology University (JSSSTU) under the aegis of JSS Mahavidyapeetha, Mysuru. SJCE is known for its achievements in curricular, co-curricular & extra-curricular activities, excellent campus placement records. SJCE is AICTE approved Govt. Aided, lead institutes with assistance from the World Bank under TEQIP Scheme (www.sjce.ac.in).

OVERVIEW OF THE DEPARTMENT

Department of Polymer Science and Technology (PST) was established in the year 1988. PST offers B.E., M.Tech., M.Sc. (Engg.) by research and Ph.D., programs. PST is active in R&D and has produced more than 27 Ph.Ds and published more than 360 research papers in reputed International Journals. PST has strong alumni rapport, good industry-institute interactions and offers a wealth of intellectual opportunities, both inside & outside the classroom.

ABOUT POLYMERS

Polymeric materials are made up of high molecular weight long chain molecules. Apart from natural polymers in the form of DNA, skin, proteins, starch, cotton & cellulose (the foundation components for life), there are thousands of synthetic macromolecules in the form of plastics, rubbers, fibers, resins & lattices. Polymers are one of the three major classes of solid state materials that are used both in engineering and commodity applications around the globe.



Macromolecules

POLYMERS EVERYWHERE !

Polymers are used in fields like, Aerospace, Agriculture, Automobile, Construction, Defence, Domestic, Electrical & Electronics, Food, Medical, Adhesives, Coating & Packaging, Submarine, Textiles, etc.

RECRUITERS

- ◆ SABIC (GE), Reliance, DuPont, UTC Aerospace, 3M, Akzonobel, GM, Volvo, DOW, Bosch, Suzlon, Tyco Electronics, Bostik, Molex-Material Eng., Exxon Mobil, Molecular Connections, Hamilton Housewares, Schenieder Electric, TVS groups, Sundaram Polymers, Brakes India Pvt. Ltd, Steer Engineering, Under Writers Lab, Lanxess, TAFE, TESCO, LM glass fibers, Toyota, Mahindra & Mahindra, KPIT Cumins, Indo US MIM, Braddy, Amaron Batteries, Autoliv, Prescient Colors, Konspec Ltd., NAL, HAL, Engel, Syngene, (> 50 plastic & composites related companies/institutes including Govt. Sectors)
- ◆ CEAT, APPOLO, JK Tyres, IRMRA, MYPOL, Park Seals, United Rubbers, Kurlon, Bremel Rubbers, (> 15 Rubber based companies).
- ◆ TCS, Infosys, Accenture, Honey-well, Wipro, IBM, [> 8 IT companies]; and others include- Entrepreneurs, Teaching Profession, Civil Services & other business.

STATE-OF-THE-ART LAB FACILITIES

Thermoanalytical techniques

Differential Scanning Calorimeter (DSC)
Thermo Gravimetric Analyzer (TGA)
Dynamic Mechanical Analyzer (DMA)
Heat Distortion Temp (HDT) & Vicat Softening Temp (VST).

Analytical tools

Scanning Electron Microscope (SEM) with EDS attachment
FTIR Spectrophotometer with ATR attachment
X-Ray Diffractometer (XRD)
Polarizing Optical Microscope, Haze meter.

Testing equipments

Universal Testing Machine (UTM), Impact tester,
Flammability tester, Melt flow Index tester, LCR meter.

Processing equipments

Haake Rheomix and Twin Screw Extruder,
Injection, Blow and Compression Molding machines.

FACULTY

Dr. G M Shashidhara	- Professor & Dean (R&D)
Dr. Siddaramaiah	- Professor & Head
Dr. G S Anantha Padmanabha	- Professor
Dr. Roopa S	- Associate Professor
Mrs. S H Kameshwari Devi	- Associate Professor
Mrs. K G Pradeepa	- Assistant Professor
Mr. M P Chandresh	- Assistant Professor
Dr. A B Hemavathi	- Assistant Professor
Mrs. Suchetha N Raju	- Assistant Professor

