Programmes offered by PST

1. **Bachelor of Engineering in PST:** Eligibility criteria: Science stream students completing 2nd PUC/12th Standard through 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.

2. **Master of Technology in:**
   - i. *Polymer Science & Technology*,
   - ii. *Material Science & Engineering*,

   Eligibility criteria: B.E./B.Tech in the allied streams, namely Polymer, Plastic, Rubber, Textiles, Mechanical, Industrial Production, Material Science & Engg, Chemical Engineering, IEM, EEE, ECE, IT, Civil Engg., CTM; OR M.Sc. in Polymer Science, Material Science, Chemistry, Physics; with a valid PGCET/GATE/JSSSTU entrance test score.

3. **M.Sc. Engineering by Research:** as per the norms of: a) JSS Science & Technology University; OR b) Visvesvaraya Technological University.

4. **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: a) JSS Science & Technology University; OR b) Visvesvaraya Technological University [vtu.ac.in]; OR c) University of Mysore [unimysore.ac.in].

**Overview of the Department**

Department of Polymer Science and Technology (PST) was established in the year 1987-88. 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 25 Ph.Ds and more than 350 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 through outcome based education.

**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 allround activities through Polymer Engineering Students’ 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.
- Professors have research collaboration with Universities in South Korea, Brazil, USA; and MOUs with CNU (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.

**Department of PST**

**Program Educational Objectives**

**PEO1:** Provide graduates with strong fundamentals of science and engineering for a successful career in Polymer Science & Technology.

**PEO2:** Enable graduates to pursue higher education and take up innovative research so as to solve multidisciplinary issues.

**PEO3:** Equip graduates with technical skills and moral values for being responsible individuals.

**Correspondence:**

- Hon. Vice Chancellor: jss.st.university@gmail.com
- Registrar: registrarjssstu@gmail.com
- Principal/ Dean: principal@sjce.ac.in
- HOD: Dr. Siddaramaiah: pst@sjce.ac.in
- Fax: 091-821-2548290,
- Phone: 091-821-2548285-89.
- Mob: +91 9972095262.
- Website: www.polymerjss.in
**JSS Mahavidyapeetha**
The core purpose of JSSMVP 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](http://jssonline.org/jss))

**About the University**
In accordance with GOK's Vision, JSSMVP 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 & thus the social transformation’, through National Focus, Global reach & multidisciplinary approaches. The campus is one of the major landmarks of the western part of Mysuru, with its sprawling 117 acres with several recognizable buildings. ([jssstuniv.in](http://jssstuniv.in))

**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; subsequently to Visvesvaraya Technological University; further, it was accorded autonomous status in 2007 & presently it is under JSSSTU. SJCE is AICTE approved, Govt. Aided, lead institutes with assistance from the World Bank under TEQIP Scheme & is known for its achievements in curricular, co-curricular & extra-curricular activities and the excellent campus placement records. ([sjce.ac.in](http://sjce.ac.in))

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**Department of Polymer Science and Technology**

**VISION**
To excel in polymer engineering education and research and to serve as valuable resource for multi-faceted industry and society.

**MISSION**
M1: To provide well balanced curriculum and conducive environment to excel in polymer and allied engineering disciplines.
M2: Creating state-of-the-art facilities for polymer research and make the best use of the facilities.
M3: To undertake collaborative projects for long term interactions with academia and industries.

**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.

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

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**Recruiters**
b) CEAT, APPOLO, JK TYRES, BKT, IRMRA, BIRLA TYRES, MYPOL, Park seals, United rubbers, Kurl-on, Bremel rubbers, (> 15 Rubber based companies).
c) 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** – IR Spectrophotometer (FTIR) with ATR attachment, X-Ray Diffractometer (XRD), Scanning Electron Microscope (SEM) with EDS attachment, Polarizing Optical Microscope, Haze mater;


**Processing equipments** – Haake Rheomix and Twin Screw Extruder, Injection, Blow and Compression Molding machines.

**Faculty**
Dr. G M Shashidhara - Professor & Dean (Research)
Dr. Siddaramaiah - Professor & Head
Dr. G S Anantha Padmanabha - Professor
Dr. Roopa S - Associate Professor
Mrs. S H Kameshvari 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

**Adjunct Faculty**
Prof. P Sridharan
Prof. C R Narasimha
Dr. R. Mukhopadhyay