

## Academics

### 1. Subjects Taught:

#### **Course: B.E Polymer science and Technology**

##### **Theory subjects**

- Thermodynamics
- Polymerization Kinetics
- Polymer Manufacturing Technology
- Rheology of Polymers
- Polymer Structure Property Relationship
- Polymer Blends and Alloys
- Processing Technology
- Polymer Testing
- Paint Technology
- Adhesive Technology

##### **Labs**

- Fluid mechanics lab
- Chemical engineering lab
- Organic chemistry lab
- Physical chemistry lab
- Polymer preparation lab
- Polymer analysis and characterization lab
- Polymer Testing lab
- Processing Technology lab
- CAD lab

#### **Course: M.Tech Polymer science and Technology**

- Specialty and functional materials
- Surface coating and Adhesive Technology

## 2. Projects Guided:

### UG Final Year Projects

- Effect of reclaimed rubber on natural rubber compounding - U. Balachandra and Pradeep G.P.
- Effect of different accelerators on tyre tread compounds - Renuka G.H, Subhashini G and H arshavardana S.N.
- Physico – Chemical parameters evaluation of PE containing different level of starch – Shylashree and Nandini.
- X- ray and related studies on polymeric materials – Subhaprada, Naveena and Pradeepa.
- Polymer – Polymer Miscibility- Achala, Dakshayini, Niruparna and Pallavi.
- Comparison between MBT and MBRTS accelerators - Balaji Pawar, Sheron and Gnanasandeeep
- Optimisation of Precipitated Silica And Mixture of Fatty Acid Soaps (Zincolet 44) in NR,SBR,BR Blend - Mr.Abhishek.N, Mr.Ganesg Dyavannanavar, Mr.Shashikumar .N and Mr.Sudershan .V.
- Study of Physical, Mechanical Properties and Shelf Life Determination of Reinforced Epoxy Laminates - Divya .R, Nandini S Dodamani, Mamatha V.S and Pooja Hariharan.
- Process optimization of new inner liner compound for TBR Tyre - Abhilash V, Ganesh G M, Mohan K S and Vikhyath Halsnadu.
- Study on Wear Resistance and Coefficient of Friction of Polyamide 66/ Glass Fiber/ Molybdenum di Sulphide - Chakravarthi D, Harshan K R, Ravi R katti and Soujanya S
- Studies on Curing Characteristics of Butyl Inner Tube Compound and its Ageing Properties – Glancy Samuel, Varsha V. C, Tejaswini K and Saphthami J.
- A Study on Preparation and Characterization of Modified Polystyrene with Improved Impact Properties - B V Prajwal, Jaswanth Kumar V, Nagashree C R Moudgalya and Divya M
- Study on Preparation and Characterization of PP-g MA/PVDF blends - Lakshmi Priyanka G, Megha M, Pavan Kumar S U, Sushma S and Deepjyoti Acharjee

## **PG Final Year Projects – 7 Projects**

- Relationship between Fiber Volume Fraction, Hounsfield and Ultrasonic Attenuation in Glass Fiber Reinforced Plastics by Vyshak L
- Study on Effect of Chain Extender on Recycled PET by Eben Solomon Rajan. T Study of the effect of light on the conductivity behavior of Conductivity Polymer (Thiophene) used in direct metallization step of PCB Manufacturing by Reshmi
- Development of High Temperature Composites for Linerless Composite Cylinders by Anupama bellakki
- Influence of Co – Resin on two component waterborne epoxy primer by Shilpa.H.V
- Fast Dry 2k Epoxy Primer System by Prathibha K N
- Enhancing the biodegradability of low density Polyethylene by blending with synthetic biodegradable Poly(Propylene Carbonate by Chandrika G.M