

## Academics

### 1. Subjects Taught:

Theory	Laboratory
<ul style="list-style-type: none"><li>• Rubber Technology</li><li>• Rubber Product Manufacturing</li><li>• Tire Technology</li><li>• Polymer Physics</li><li>• Polymer Chemistry</li><li>• Thermoplastic Elastomers</li><li>• Polymer Recycling</li><li>• Latex and Foam Technology</li><li>• Specialty and Functional Materials</li></ul>	<ul style="list-style-type: none"><li>• Organic Chemistry lab</li><li>• Physical Chemistry lab</li><li>• Polymer Preparation Lab</li><li>• Chemical Engineering Lab</li><li>• Processing Technology Lab</li><li>• Polymer Testing Lab</li><li>• CAD lab</li></ul>

### 2. List of short-term courses / International and National level Conference organized

- Co-cordinator for One week Faculty Development Programme on “**Testing and Characterization of Polymeric Materials**”, from 15<sup>th</sup> – 20<sup>th</sup> Sept 2014 under TEQIP – II.
- Organizing committee member for three day **International Conference on Advanced Materials and Technology (ICMAT)** on 26<sup>th</sup> – 28<sup>th</sup> May 2016
- Scientific Committee member for 7<sup>th</sup> National Conference on **Novel Polymeric Materials (Synthesis, Processing & Characterization) - POLYCON 2017**, held on 15<sup>th</sup> & 16<sup>th</sup> September 2017, Organized by the Department of Polymer Science & Technology, SJCE, Mysuru and Indian Rubber Institute, Karnataka Branch.

### 3. R&D Projects Executed

Sl no.	Name of the funding agency (AICTE/ Others)	Name of the Scheme	Project Title	Year of Fundin g	Duratio n	Amount Sanctio ned (Rs)	Status Completed /* Ongoing
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1	AICTE	R & D	“Investigation on membrane applications of elastomeric materials”	1998	2 yrs	6 lakhs	Completed
2	KSCST	Students project	Feasibility of natural polymer, karaya gum for drug delivery systems	2007	-	4500/-	Completed
3	VTU	R&D	Investigation on thermoset plastic grind waste and naturally occurring mineral fillers incorporated hybrid rubber composites	2010	3 yrs	7.5 lakhs	Completed

#### 4. UG Projects Guided (From 2012 -2017)

- Bondability of HDPE Pipes - Gururaj Thilagar , Prashanth Kumar V , Shilpa K, Vaishnavi, Product Promoters, Mysuru (2016-17)
- Development of an NBR Compound for O-ring Application - Farheen Afza A, M R Bhanushree, Akshay B, Saba Khanum, Triton Valves Ltd., Mysuru, (2015-16)
- Development of EPDM Compounds for O-Ring Applications - Ameena Rowez, Hina Kouser, Jayalal, Puneeth B, Triton Valves Ltd., Mysuru, (2014-15)
- Improvement of First Time Quality of Cured Tyres - Nagarjun M, Shashi Kumar C, JK Tyres, Mysuru, (2013-14)
- Tread Weight Optimization and Reduction of Tread Scrap - Monoj Debnath and Suryanarayanan M R, JK Tyres, Mysuru, (2013-14)
- Lifespan estimation of cable insulating materials (PVC,X LPE) using Arrhenius plot - Kishor Kumar M J and Suhas M, RPG Cables, Mysore, (2012-13)
- Effect of Thermo set grind Waste on NR/SBR Compound - Raghu P, Vishwaraj N S, Ramesha N and Suresha P, SJCE, Mysore (2012-13)

#### 5. PG Projects Guided

- Mr.Chaluvarj.M (USN: 4JC07PST01) - Use of Kevlar engineered elastomer to improve cut/chip resistance property in OTR tire tread compound.

- Mr. Dineshan V (4JC08PST02) - Tread base compound with efficient vulcanization system for good heat stability and performance
- Mr. Manjunatha E (4JC09PST10) - Development of polymer Nanocomposite with Different polymeric matrices
- Mr. Naveen Urs (4JC09PST11) - Effect of silica and rice husk on tire tread compound
- Mr. Gnanasandeep S.R, (4JC10PST03) - Studies on Biocompatible adhesive for long lasting adherence in ECG application”
- Miss. Supriya D S, (4JC11PST07) – Synthesis and Evaluation of Acrylic Pressure Sensitive Adhesive
- Mr. Pratheek K S, (4JC12PST02) – Effect of calendaring process parameters on steel cord coating.
- Avinash M, (4JC014PST02) - Study on the effect of block rubber on tire tread compound
- Suryanarayan M R - Toughening of polystyrene and styrene acrylonitrile copolymer by liquid butadiene rubber (LBR)

## 6. Short term course attended

- 1) Two day programme on “**Educational utilization of Indian Standards**”, sponsored by BIS, organized by Dept. of Mechanical Engineering, SJCE, Mysore, from 28 to 29 th Jan 1998
- 2) Three day programme on “**Faculty Induction Training Programme**”, organized by ISTE-SJCE chapter , SJCE , Mysore from 15-17<sup>th</sup> Fed. 1999.
- 3) AICTE-ISTE sponsored short term training programme on “**Rubber and Plastic Process Engineering**”, organized by IIT, Kharagpur, from 7-11<sup>th</sup> June 1999.
- 4) AICTE-ISTE sponsored short term training programme on “**Electrochemical and Nuclear Energy Systems**”, organized by Dept. of Chemistry & Geology, PESCE, Mandya, from 21-31<sup>st</sup> Oct. 1999.
- 5) AICTE-ISTE sponsored short term training programme on “**Managing Hazardous Wastes in the New Millenium (MHWNM)**”, ORGANIZED BY Dept. of Environmental Engg., SJCE, Mysore, from 3<sup>rd</sup> to 15<sup>th</sup> Sept. 2001.
- 6) AICTE-ISTE sponsored short term training programme on “**Recent Trends in Polymer Composites**”, organized by Dept. of Polymer Science and Technology, SJCE, Mysore from 17<sup>th</sup> –29<sup>th</sup> Sept. 2001.
- 7) AICTE-ISTE sponsored short term training programme on “**Computer Applications in Civil Engineering**”, organized by Dept. of Civil Engineering, SJCE, Mysore from 8<sup>th</sup> to 19<sup>th</sup> Oct.2001.
- 8) Two weeks training programme on “ Recent trends in material science and mathematical modeling from 28<sup>th</sup> July to 9<sup>th</sup> August 2003, organized by the Dept. of Polymer Science & Technology and Dept. of Mathematics, sponsored by AICTE – ISTE

- 9) Actively involved to organize and participated in the 3<sup>rd</sup> National Conference on “Polymer Blends & Composites (MACRO 05)” held at Dept. of Polymer Science and Technology, SJCE, Mysore, on 15<sup>th</sup> and 16<sup>th</sup> April 2005.
- 10) Two Day Training programme on “Thermal Analysis Training” held on June 30<sup>th</sup> and July 1<sup>st</sup> 2005 at Bangalore, organized by TA Instruments
- 11) Training Programme on “AUTOCAD – 2D Drafting, MDT – 3D Modeling and Assembling, Mold flow – fill, cool and warp analysis” held at Amrutha Institute of Technology (AIT) Ettimadai, Coimbatore, Tamilnadu on 16<sup>th</sup> to 24<sup>th</sup> August 2005.
- 12) Training programme on “IRON CAD” by Anuvikas of Adroitec, Bangalore, held at SJCE, Mysore, on 8<sup>th</sup> and 9<sup>th</sup> October 2005.
- 13) Two day programme on “Six Sigma – For Business Excellence” held on 16<sup>th</sup> and 17<sup>th</sup> December 2005 organized by Quality circle programme of India SJCE- Sci. and Tech. Entrepreneurs park, held at SJCE-STEP, Mysore
- 14) One day seminar on “Industrial & Automotive Rubber components Designing, Development and Testing”. Held on 8<sup>th</sup> April 2006 at Chennai, Organized by Indian Rubber Manufacturers Research Association (IRMRA), Thane.
- 15) One week programme on “Crash Course on Rubber Technology of PGD-IRI, held on 6<sup>th</sup> - 10<sup>th</sup> June 2006 at SJCE, organized by IRI, National Education Committee (HQ)
- 16) One day work shop on “Municipal solid waste management and Plastics” on 25<sup>th</sup> August 2006, at Bangalore, Organised by Confederation of Indian Industry (CII) and Ministry of Forest and Environment
- 17) Three day training programme on **AUTODESK INVENTOR PROFESSIONAL 11** on 25<sup>th</sup> to 27<sup>th</sup> September 2006 at Dept. of PS&T, SJCE, Mysore.
- 18) Four day training programme “**Fiber rainforced plastics (FRP) Technology**”, organized by Karnataka Association of FRP Industries, held on 15<sup>th</sup> to 18<sup>th</sup> May 2007 at Bangalore.
- 19) Three day workshop on “**UGS – Solid edge**” on 23<sup>rd</sup> – 25<sup>th</sup> July 2007 at SJCE, Mysore organized by Visweswaraiah Technological University, Belgaum
- 20) Two day Science and Technology workshop on “Natural and synthetic Latices in rubber products” on 18 - 19<sup>th</sup> of April 2008, organized by Asia Pacific Elastomer Science & Technology (APEST), at Kochi, Kerala
- 21) Three day workshop on “Manufacturing aspect of rubber Products” on 29 – 31<sup>st</sup> Aug 2008 at SJCE, Mysore, jointly organized by Indian Rubber Institute and Dept of Polymer Science & Technology.
- 22) Pro-E CAD software programme (60 hours) at Central Institute of Plastics Engg. & Testing (CIPET), Hebbal Industrial Area, Mysore on 2/01/2009 to 30/01/09, organized by CIPET, Mysore.
- 23) One day seminar on “Scientific Writing and Publication” on 2<sup>nd</sup> Dec 2009 at JSS University, Mysore, organized by JSS Medical College, JSS University
- 24) Workshop on Research methodologies on 29<sup>th</sup> & 30<sup>th</sup> December 09 organized by VTU e – learning centre at SJCE, Mysore.

- 25) Workshop on VTU Thesis development using Latex on 31<sup>st</sup> December 09 organized by VTU e – learning at SJCE, Mysore.
- 26) Winter school on polymers-Synthesis, characterization and applications, on 20/12/2010 – 24/12/2010 held at Dept. of Materials Engineering, IISc, Bangalore.
- 27) Crash Course on Rubber Technology of PGD-IRI, held on 30<sup>th</sup> June - 3<sup>rd</sup> July 2013 at SJCE, organized by IRI, National Education Committee (HQ)
- 28) One day workshop to sensitize the management and teachers of technical institutions to tackle the menace of sexual crime against women, organized by AICTE on 25<sup>th</sup> July 2013 at MSRIT, Bangalore.
- 29) Two days FDP on “Polymer Composites” organized by Dept of PST, SJCE, Mysore on 30<sup>th</sup> and 31<sup>st</sup> Aug 2013 under TEQIP-II initiative
- 30) All India Seminar on “Nano-technology for energy, environment and health” under the aegis of Interdisciplinary Coordination Committee (ICC), IE (I) on 19-20<sup>th</sup> October, 2013, organized by The Institution of Engineers (India), Mysore local chapter and Indian Rubber Institute (IRI), Karnataka branch, Mysore.
- 31) One day Guidance and counseling workshop for women faculty to improve the performance of Girl students in Engg programmes on 30<sup>th</sup> June 2014, organized by SJCE under TEQIP – II.
- 32) Two day workshop on “Quality in Research” on 18<sup>th</sup> and 19<sup>th</sup> of July 2014, organized by SJCE under TEQIP – II.
- 33) Two day workshop on “Quality Improvement in Teaching Learning Process” on 25<sup>th</sup> and 26<sup>th</sup> of July 2014, organized by SJCE under TEQIP – II.
- 34) Two day workshop on “Financial Management” on 30<sup>th</sup> and 31<sup>st</sup> of July 2014, organized by SJCE under TEQIP – II.
- 35) Four days programme on ‘8<sup>th</sup> National Level Crash **Course** on Rubber Technology’, organized by Indian Rubber Institute, Karnataka Branch & Dept. of PST, SJCE at Centre for Management Studies, SJCE from 27<sup>nd</sup> to 30<sup>th</sup> June 2015
- 36) One week programme on “Leadership and Career Development for Women Scientist/Technologists” on 2<sup>th</sup> to 6<sup>th</sup> of September 2015. This programme was organized by Department of Science and Technology (DST) and COACH International, USA at Indian Institute of Entrepreneurship, Guwahati, Assam
- 37) Four day workshop on “Linear algebra for electrical sciences” from 26 -29<sup>th</sup> Feb 2016, organized by Dept of E&C, SJCE, Mysuru, under TEQIP – II.
- 38) One day Authors workshop on “Publish and Perish” 26<sup>th</sup> March 2016, organized by SJCE, Mysuru, under TEQIP – II.
- 39) Two weeks Global initiative for academic network (GIAN) programme on “Graphene-based Nanocomposites for Energy Harvesting/Storage Applications” from 30<sup>th</sup> May 2016 to 10<sup>th</sup> June 2016, organized by Department of Polymer Science & Technology, SJCE, Mysore and MHRD

- 40) Four days programme on ‘9<sup>th</sup> National Level Crash **Course** on Rubber Technology’, organized by Indian Rubber Institute, Karnataka Branch & Dept. of PST, SJCE at Centre for Management Studies, SJCE from 26<sup>th</sup> to 29<sup>th</sup> June 2016
- 41) Two weeks Global initiative for academic network (GIAN) programme on Performance Information Procurement System" from 4<sup>th</sup> to 15<sup>th</sup> July 2016 at SJCE, Mysuru. organized by Department of Construction Technology and Management, SJCE, Mysuru and MHRD.
- 42) One week Faculty development programme on “Pedagogy of instructional design and delivery system” from 12<sup>th</sup> July to 17<sup>th</sup> July 2016, organized by SJCE, Mysuru, under TEQIP – II.
- 43) One day seminar on Rubber Education on 23/01/2017 at Chennai, organized by Indian Rubber Institute and American Chemical Society, Rubber Division, USA.

## 7. Conference attended

- 1) Two days National conference on India Rubtech Expo – 2004 on 13<sup>th</sup> & 14<sup>th</sup> February 2004, organized by Indian Rubber Institute, Karnataka & Rajasthan Branch at Mysore
- 2) International Conference on Water and Health, Organized by SJCE and JSS Medical College, Mysore, Held on 22<sup>nd</sup> and 23<sup>rd</sup> January 2005
- 3) National Conference on Polymer Blends and Alloys (MACRO 05), Conducted by the Department of Polymer Science and Technology, SJCE, Mysore, Held on 15<sup>th</sup> & 16<sup>th</sup> of April 2005
- 4) Two day National conference on “Ecofriendly Plastics & Rubber Systems” on 19 – 20<sup>th</sup> May 2008, organized by Dept of Polymer Science & Technology, SJCE, Mysore.
- 5) Three day “International Rubber Conference and Exhibition” on 17-19<sup>th</sup> Nov 2010 at Renaissance Mumbai convention center hotel, Powai, Mumbai, jointly organized by International Rubber Conference Organization (IRCO) and Indian Rubber Institute (IRI)
- 6) Two day National conference (POLYCON 2011) on “**Plastic and Rubber Technology**” on 25 – 26<sup>th</sup> April 2011 at SJCE, Mysore, organized by Dept of Polymer Science and Technology, SJCE, Mysore (Convener)
- 7) POLYCON 2014, National Conference on “Advances in Polymeric Materials(energy, Environment and Health)), jointly organized by the Department of Polymer Science and Technology and Indian Rubber Institute (Karnataka branch) at SJCE, Mysore, Held on 25<sup>th</sup> & 26<sup>th</sup> of April 2014