

Academic

Profile Summary

<ul style="list-style-type: none"> • Industrial Experience: 2 years. • Research Experience: 9 years. • Teaching Experience: 9 years. • Project works done: 4. • Project works guided: UG-8; PG-3. • Technical Activities (viz. conferences, seminars, workshops, trainings, courses, Developmental Programs, etc) <ul style="list-style-type: none"> -Participated: 36 nos; -Organized: 6 nos. 	<ul style="list-style-type: none"> • Conference Paper: 3. • Association with Professional bodies: 4. • Conference Organized: 1. • Technical Talk at Professional Institutes: 1. • Laboratories Handled: 11. • Subjects Taught: 15. • Exposed to analytical & testing tools. • Involved in all round activities. <p>*Have got (>80%) good feedback from stake holders</p>
---	---

Subjects and Laboratories handled (Since August 2008 till date)

<p><u>Core-Subjects</u></p> <p>Inorganic and Physical Chemistry Polymer Chemistry- 1&2 Organic Chemistry Polymer Physics Compounding Technology Rubber Technology Polymer Analysis and Evaluation Polymer Structure Property- - Relationships (UG & PG) Processing Technology-1 Testing of Polymers Polymer Blends & Alloys Polymer Composites Research Methodology</p>	<p><u>Electives</u></p> <p>Engineering Plastics Polymer Recycling ThermoPlastic Elastomers</p> <p><u>Labs</u></p> <p>Fluid Mechanics Organic Chemistry Chemical Engineering CAD (2nd & 4th Year) Polymer Testing Processing Technology Polymer Preparation Polymer Analysis and Evaluation Physical Chemistry Polymer Synthesis and characterization (PG) Polymer Processing and Testing (PG).</p>
--	--

Project/ Research Works Carried Out

Work Place	Title	Objective
S.J.C.E., Mysuru (B.E. mini project)	“Designing of Plastic Products using pro-E”	Modeling plastic products using pro-e, considering design concepts & material criteria for customer centric product.
J.K.Tyres, Mysuru (B.E. major project)	“Effect of Carbon Blacks on Rubber Compounds”	Mixing different rubber compounds with natural & synthetic elastomers, & 4 grades of c-blacks in different ratios; to study the effect of blacks and establish data base of properties.
S.J.C.E., Mysuru (sponsored project)	“Fabrication of Composites using Industrial Waste”	To develop polymer composites using industrial waste as filler for wood substituted articles that are cost effective. [Incl. Waste from M/s. AT&S; Sponsored by KSCST].
SABIC-IP, GE plastics program,	“PC & PBT melt Flow promotion by	To understand the mechanism of flow promotion caused by additives like polyhydric alcohols present in small

Bengaluru	additives”	quantities in engineering thermoplastics like polycarbonate & PBT.
S.J.C.E., Mysuru (PhD work)	“Preparation & Characterization of Liquid Rubber based Blends & Compounds”	To utilize Liquid Rubber in- i. Toughening Thermo Plastics & Thermo sets; ii. Developing Thermo Plastic Vulcanizates (TPEs); iii. Rubber formulation as reactive plasticizers.

Supervision of Graduates’ Research Works

[Program, Year, Title (joint organization if any)]

- i. M.Tech. 2013-14: Studies on cured tyre defects (JK Tyre & Industries, Mysuru).
- ii. M.Tech. 2014-15: Fabrication of Graphene oxide-nano composite membranes for water filtration (IITC, Hyderabad).
- iii. M.Tech. 2016-17: Liquid rubber toughened PS & SAN.
- iv. B.E. 2011-12: To improve the ageing properties of butyl compound for radial tubes with various curatives (MYPOL, Mysuru).
- v. B.E. 2012-13: Waste polymer utilization in asphaltting of roads (Interdisciplinary collaborative project with Dept. of Construction Tech & Management).
- vi. B.E. 2013-14: Development of photodegradable LDPE film containing TiO₂ (DFRL, Mysuru).
- vii. B.E. 2014-15: Liquid isoprene rubber as replacement to carcinogenic aromatic oil in natural rubber vulcanizates.
- viii. B.E. 2015-16: Effect of liquid butadiene rubber on natural rubber vulcanizates.
- ix. B.E. 2015-16: Studies to improve bonding between over-molded Nylons (Bosch, Bengaluru).
- x. B.E. 2016-17: Development of dynamically vulcanized TPE based on PS & LBR.
- xi. B.E. 2016-17: Utilizing industrial waste sodium sulphate in HDPE (Product Promoters, Mysuru).

Technical Talk:

- Addressed the fraternity of multidisciplinary engineers at the Institution of Engineers on ‘Overview of Engineering Polymers’, 20/Jan/2014.

Conference Journal

- i. **M. P. Chandresh** and G. S. AnanthaPadmanabha, “Studies to Understand Flow Promotion Caused by Polyhydric Compounds in Polycarbonate (PC) and Polybutylene Terephthalate (PBT)” in ‘National Conference on Recent Trends in Chemical Research’ (NCR-TCR-2014), at SJCE, Mysuru, 3rd & 4th January 2014, pp. 25-26.
- ii. **M. P. Chandresh**, Siddaramaiah and Roopa S., “Effect of liquid isoprene rubber on natural rubber vulcanizates” in IRMRA-CII Rubber Conference (ICRC-2015) on ‘Empowering the rubber & allied industry through indigenization, innovation on technology, materials and processes’, at Bombay Exhibition Centre, Mumbai, 16th & 17th December 2015, pp. 32.
- iii. **Chandresh M. P.**, Roopa S., and Suryanarayanan M. R., “Toughening of polystyrene by polybutadiene/ liquid butadiene rubber master-batch”, 7th National conference on Novel Polymeric Materials (POLYCON-2017), 15th September 2017.

Technical Activities Organized or Coordinated: [Courses/ Conferences/ Seminars/ Trainings/ Workshops/ Faculty Development Programs]

- i. Coordinated the ‘5th National Level Crash **Course** on Rubber Technology’, organized by Indian Rubber Institute, Karnataka Branch & Dept. of PST, SJCE at Centre for Management Studies, SJCE, Mysuru from 22nd to 25th June 2012.
- ii. Involved in organizing committee of 3rd State level ‘Science and Technology’ **Conference** – 2012 “Role of science and technology in rural development”, organized by KSCST; Government of Karnataka & SJCE, Mysuru, at SJCE; between 31st July to 1st August 2012.
- iii. Was part of organizing committee of 2 days **Faculty Development Program** on “Polymer Composites”, at SJCE, Mysuru from 30th to 31st August 2013; Organized by department of PST and sponsored by TEQIP-II.
- iv. **Was Joint-Secretary** in organizing 6th National level **Conference** “POLYCON 2014” on 25th & 26th April 2014 at SJCE Mysuru, on Advances in Polymeric Materials (Energy, Environment & Health).
- v. **[1 week program] FDP** on “Testing & characterization of polymeric materials”, at SJCE, Mysuru, from 15th to 20th September 2014. Organized by Polymer Sc. & Tech. Dept., & sponsored by TEQIP-II.
- vi. **Finishing school:** Jointly conducted 21 finishing schools for final year B.E. PST students between Sep2015 to Jan2016, on various identified topics by industrial experts- Design, Processing Technology, Innovation, etc.

Technical Activities Participated: [Following Courses/ Conferences/ Seminars/ Trainings/ Workshops/ Faculty Development Programs were attended from 02-09-2011 till date]

{**Training** on Auto CAD, MDT, Pro-E & Mold Flow Analysis [2005-2008]}

- i. **[1 day program] Conference** on “International year of chemistry”, organized by Department of Polymer Science and Technology, and Department of Chemistry on 25th November 2011 at SJCE, Mysuru.
- ii. **[2 days program] 21st Rubber Conference (International level)** on “Emerging trends in developing eco-friendly and energy efficient elastomeric material and processing technology” at Mumbai, organized by IRMRA, Thane on 20th & 21st January 2012 along with five students.
- iii. **[4 days program] ‘8th Plastindia Conference cum Exhibition’ (International level)** at New Delhi, organized by PlastIndia Foundation, from 2nd to 5th February 2012 with eighteen students.
- iv. **[2 days program] Seminar** on “Role of Nano-Composites in Dielectrics and Devices”, 16th & 17th March 2012, Dept. of E&C, SJCE, Mysuru.
- v. **[1 day program] Faculty Development Training** on “achieving excellence in teaching skills and values”, organized by ISTE, PESCE Chapter, Mandya & The Institution of Engineers, Mysuru at PES College of Engineering, Mandya on 28th April 2012.
- vi. **[4 days program] ‘5th 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 22nd to 25th June 2012.
- vii. **[2 days program] 3rd State level ‘Science and Technology Conference – 2012’** on “Role of science and technology in rural development”, organized by KSCST; Government of Karnataka & SJCE, at SJCE between 31st July to 1st August 2012.
- viii. **[3 days program] ‘7th International Rubber Exhibition, Conference and**

Tyre Show'- "India Rubber Expo and Tyre Show 2013" held at Mumbai Exhibition Centre, Goregaon, Mumbai, during 22nd – 24th January, 2013.

→[2 days program] Participated in **Two Courses** held during the above conference:

"Mixing Technology" on 22 January, 2013.

"Retreading Technology" on 23 January, 2013.

- ix. [1 day program] **Training** on analytical instruments- State Level Workshop on "Basic techniques in instrumental methods", sponsored by DST and organized by JSS College of arts, commerce and science on 27th March 2013.
- x. [1 day program] **Workshop** on "Identifying Weak Students", at SJCE, Mysuru on 20th July 2013 organized and sponsored by TEQIP-II.
- xi. [2 days program] **Workshop** on "Examination and Evaluation, Academic Auditing and Quality Assurance", at SJCE, Mysuru on 24th & 25th August 2013; conducted by National Testing Service-India, CIIL, Mysuru; Sponsored by TEQIP-II.
- xii. [2 days program] (FDP) **Course** on "Polymer Composites", at SJCE, Mysuru from 30th to 31st August 2013. Organized by department of PST and sponsored by TEQIP-II.
- xiii. [1 day program] **International Conference & Exhibition** on "Additive Manufacturing Technologies", 7th October 2013, Organized by AMSI at Nimhans Convention, Bengaluru.
- xiv. [1 day program] **International Seminar** on "Funding Opportunities & Collaborative schemes for Academic Institutions' R&D Projects" on 8th October 2013, Organized by AMSI at Nimhans Convention, Bengaluru.
- xv. [2 days program] 6th National level **Conference** "POLYCON 2014" on 25th & 26th April 2014 at SJCE Mysuru, on "Advances in Polymeric Materials (Energy, Environment & Health)".
- xvi. [1 week program] **FDP** on "Theoretical, computational & applied mechanics", at BMSCE, Bengalur, from 16th to 20th June 2014. Organized by Mechanical Eng. Dept., BMSCE, & sponsored by TEQIP-II.
- xvii. [2 days program] **Workshop** on "Quality in research", conducted by TEQIP-II at SJCE, on 18th & 19th July 2014.
- xviii. [2 days program] **Workshop** on "Quality in teaching-learning process", conducted by TEQIP-II at SJCE, on 25th & 26th July 2014.
- xix. [2 days program] **Workshop** on "Human Relation at work", conducted by TEQIP-II at SJCE, on 3rd & 4th September 2014.
- xx. [3 days program] **Workshop** on "Understanding self & interpersonal relationships", conducted by TEQIP-II at SJCE, from 12th & 14th September 2014.
- xxi. [1 week program] **FDP** on "Testing & characterization of polymeric materials", at SJCE, Mysuru, from 15th to 20th September 2014. Organized by Polymer Sc. & Tech. Dept., & sponsored by TEQIP-II.
- xxii. [1 day program] **Workshop** on "Right to information", conducted by TEQIP-II at SJCE, on 25th September 2014.
- xxiii. [1 week program] **9th Plastindia Conference cum Exhibition** (International level) at Gandhinagar, Gujarat, organized by PlastIndia Foundation, from 2nd to 6th February 2015 with forty students, (sponsored by TEQIP-II/SJCE, PESA/PST, & IPI-Mumbai).
- xxiv. [2 days program] **Workshop** on "Research methodology", conducted by NIE, sponsored by TEQIP-II; on 5th & 6th June 2015.

- xxv. **[4 days program]** ‘8th 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 27nd to 30th June 2015.
- xxvi. **[2 days program]** **National Seminar** on “Recent Advances in Mathematics and its Applications”, conducted by JSS College of Arts, Commerce and Science sponsored by UGC; on 18th & 19th February 2016.
- xxvii. **[1 day program]** ‘Authors **Workshop** on Perish or Publish’, conducted by SJCE, sponsored by TEQIP-II, on 26th March 2016.
- xxviii. **[3 day program]** ‘**International Conference on Advanced Materials and Technology (ICMAT)**’ organized by SJCE, Mysuru at its campus from 26th to 28th May 2016.
- xxix. **[2 week program]** Global Initiative of Academic Networks (GIAN, MHRD, GOI initiative) **Course** on ‘Graphene- Based Nanocomposites for Energy Harvesting/ Storage Applications’ organized by Dept. of PST, SJCE, Mysuru at its campus from 30th May to 10th June 2016.
- xxx. **[2 week program]** Global Initiative of Academic Networks (GIAN, MHRD, GOI initiative) **Course** on ‘Performance Information Procurement System’ organized by Dept. of CTM, SJCE, Mysuru at its campus from 4th to 15th July 2016.
- xxxi. **[6 day / 1 week program]** **workshop** on ‘Pedagogy of instructional design and delivery system’, organized by TEQIP-II at SJCE from 12th July to 17th July 2016 {UNESCO certified e-learning series on Information and Communication Technology in Education; Modules: 1-Essentials; 2-Decision Making}
- xxxii. **[1 day program]** **Tutorial/ Special Lecture** on “How to do good PhD?” organized by circuit branches of SJCE in coordination with IEEE Bangalore section on 10th August 2016 at SJCE.
- xxxiii. **[3 day program]** **Workshop** on ‘Research Design and Statistical Analysis using SPSS’ organized by VTU e-learning centre, Mysuru at its regional centre between 25th to 27th August 2016.
- xxxiv. **[3 day program]** **Short term course** on ‘Testing & Quality Management Systems in Rubber Industry’ jointly organized by IRI Karnataka Branch & HASETRI, Mysuru at SJCE, JSSSTU, Mysuru between 26th to 28th September 2016.