#### **Personal details**

Name	: Dr. S. K. Srivastava						
Designation	: Assistant Professor, Chemical Engineering						
Qualification	: PhD [Chemical Engineering]						
Experience	: 11 years						
Area of Interest	: Catalysis, Biomass to fuel and value added						

**Area of Interest** : Catalysis, Biomass to fuel and value added chemicals, Chemical Reaction Engineering, Transport phenomena, Process Optimization, and Green Technology.

**Profile:** Dr. S. K. Srivastava has done his graduation from U. P. Technical University, Lucknow. He has completed his post-graduation & doctoral degree in Chemical Engineering from S. V. National Institute of Technology, Surat. Dr. Srivastava has about 11 years of teaching experience (2 Years at GECV) and has guided a number of undergraduate projects, with a number of publications in international journals and conferences to his credit. His research interest includes Catalysis, Biomass to fuel and Chemicals, Chemical Reaction Engineering, Transport phenomena, Process Optimization, and Green Technology. Before joining GECV, he has worked for four different universities such as Rajasthan Technical University (RTU), Jaipur National University (JNU), U. P. Technical University (UPTU) and Gujarat Technological University (GTU). Over there, along with teaching, he has served for various administrative duties at department / Institute/ University level.

Exam	Name of Board	Month & Year
SSC	UB Board	June, 1993
HSC	UP Board	June, 1995
B. Tech	UPTU	June, 2007
M. Tech	S. V. National Institute of Technology, Surat	June, 2013
PhD	S. V. National Institute of Technology, Surat	August, 2018
CCC+	SPIPA, Surat	July, 2019
Gujarati Mukti	Directorate of Language, Gujarat	Oct, 2019

#### **Educational Qualification**

Work experience: Industrial – 4 months Teaching – 11 years Other – Nil

**Skills and Knowledge:** Able to operate analytical instruments like XANES/ EXAFS, FE-SEM, TGA-DSC, XRD, BET-Surface area, Gas Chromatography, UV-vis Spectrophotometer, and Particle Size Analyser.

**Course Taught:** Transport Phenomena, Chemical Reaction Engineering (I,II), Process Engineering Costing & Plant design, Optimization Techniques in Chemical Engineering, Process Modeling and Simulation, Process Calculation, Non-conventional sources of

energy, Chemical process industries (I, II), Process equipment design (II), Chemical engineering thermodynamics (II) and disaster management.

# Training and workshop:

Attended-Technical training - 1 week, other - 2 weeks (After Joining at GECV)

Sr. No.	Title of Course	From	То	Duration [in week]	Organizer	Sponsored/ Approved By
1	Induction Phase-I	11/2/2019	22/02/201 9	2	NITTTR,Bhopal	DTE
2	Advancement in Chemical Reaction Engineering & Catalysis	11/3/2019	15/03/201 9	1	LDCE	DTE
3	MOOC on Optimization in Chemical Processes	01/07/2018	31/10/201 8	12	NPTEL	AICTE

# Other Training and workshop: [Before joining at GECV]

Sr. No.	Title of Course	From	То	Duration [in week]	Organizer	Sponsored/ Approved By
1	Advances in Preparation and Characterization of Heterogeneous Catalysis	08/06/2015	20/06/201 5	2	IIT BHU	-
2	Recent trends in Chemical Engineering	11/07/2016	15/07/201 6	1	SVNIT, Surat	-
3	Carbon neutral energy	09/05/2016	13/05/201 6	1	SVNIT, Surat	-
4	Concept of Green Chemistry in Engineering	01/05/2016	05/05/201 6	1	SVNIT, Surat	-
5	Advanced Scientific tools for Materials science and Technology	29/05/2015	31/05/201 5	0.5	SVNIT, Surat	-
6	Design of Experiment using the Taguchi method: an overview	25/04/2015	25/04/201 5	1 day	SVNIT, Surat	-
7	Refinery Process Technology: Advances through Research & Development	30/07/2013	30/07/201 3	1 day	IOCL (R & D division) Faridabad	-
8	Nanotechnology Applications for Sustainable Development	19/04/2013	21/04/201 3	0.5	SVNIT, Surat	-
9	Industry defined problems (IDP) by DOW Chemicals	14/01/2012	17/01/201 2	1	ICT, Mumbai	-

10	Faculty Development program	08/07/2010	13/07/201	1	MIT,	-
	on Entrepreneurship		0		Moradabad	

### **Portfolio:**

**Institutional-** Finishing School Coordinator, Assistant training & Placement officer (Chemical Engineering), Member of Placement fair-2020 committee, Technical Expert from academia for IPR committee, Mukhyamantri Apprentice Yojana (MAY), Member of Institute-Industry interaction committee, Member of Institute News Letter committee.

**Departmental-** Convener of Industry Advisory Board (Chemical Engineering), Department Training & Placement coordinator, Finishing School Coordinator, Industrial visit & expert lecture coordinator, minutes of meeting, CRE-Lab In charge (E-215), Class coordinator of 6D1 (Bonafide, Concession etc), Department News Letter.

### Expert lectures organized/delivered: Nil

# **SSIP/Research/funded Projects:** SSIP-03 (ongoing-01)

Academic projects: NA

### Consultancy: NA

Publications: "Peer reviewed International SCI publication- 08

### **Details of Peer reviewed International publication**

- Sanjay Srivastava, Pravakar Mohanty, Jigisha K. Parikh, Ajay K. Dalai, S. S. Amritphale, A. Khare, Cr-free Co-Cu/SBA-15 catalysts for hydrogenation of biomass-derived α-, β-unsaturated aldehyde to alcohol, Chinese Journal of Catalysis, 36 (2015) 933–942 (Impact Factor- 2.62) ISSN:1872-2067; Elsevier Publication.
- Sanjay Srivastava, Naveen Solanki, Pravakar Mohanty, Krunal A. Shah, Jigisha K. Parikh, Ajay K. Dalai, Optimization and Kinetic Studies on Hydrogenation of Furfural to Furfuryl Alcohol over SBA-15 Supported Bimetallic Copper-Cobalt Catalyst, Catalysis Letters, 145 (2015) 816–823. (Impact Factor- 2.307)ISSN: 1572-879X; Springer Publication.
- Sanjay Srivastava, G. C. Jadeja, Jigisha Parikh, A versatile bi-metallic copper-cobalt catalyst for liquid phase hydrogenation of furfural to 2-methylfuran, RSC Advances, 6 (2016)1649-1658. (Impact Factor- 3.84) ISSN: 2046-2069; Royal Society of Chemistry Publication.
- Sanjay Srivastava, G. C. Jadeja, Jigisha Parikh, Synergism studies on alumina-supported copper-nickel catalysts towards furfural and 5-hydroxymethylfurfural hydrogenation, Journal of Molecular Catalysis A: Chemical, 426 (2017) 244-256. (Impact Factor-3.958) ISSN: 1381-1169;Elsevier Publication.
- 5. Sanjay Srivastava, G. C. Jadeja, Jigisha Parikh, Influence of supports for selective production of 2,5-dimethylfuran via bimetallic copper-cobalt catalyzed

5-hydroxymethylfurfural hydrogenolysis, Chinese Journal of Catalysis, 38 (2017) 699–709 (Impact Factor- 2.62) ISSN:1872-2067; Elsevier Publication.

- Sanjay Srivastava, G. C. Jadeja, Jigisha Parikh, Copper-cobalt catalyzed liquid phase hydrogenation of furfural to 2-methylfuran; An optimization, kinetics and reaction mechanism Study. Chemical Engineering Research and Design, 132 (2018) 313-324 (Impact Factor- 2.538) ISSN: 0263-8762; Elsevier Publication.
- Sanjay Srivastava, G. C. Jadeja, Jigisha Parikh, Optimization and reaction kinetics studies on copper-cobalt catalyzed liquid phase hydrogenation of 5 hydroxymethylfurfural to 2,5-dimethylfuran.Under revision, International Journal of Chemical Reactor and Engineering. Published Online: 2018-08-28 | DOI: https://doi.org/10.1515/ijcre-2017-0197 (Impact Factor- 0.881) ISSN: 1542-6580; De GRUYTER Publication.
- Sanjay Srivastava, G. C. Jadeja, Jigisha Parikh, Selective Hydrogenation of Furfural to Tetrahydrofurfuryl Alcohol Using Supported Nickel–Cobalt Catalysts, Ind. Eng. Chem. Res. 58 (35), 16138-16152, ACS Publication, (Impact Factor-3.375) Print Edition ISSN: 0888-5885

# Conference - 05

# **Details of Conference**

- 1. An ORAL talk on "Synthesis of gasoline additives via catalytic hydrogenation of biomass derived furfural and 5-hydroxymethylfurfural" in 2ndGreen and Sustainable Chemistry conference, Elsevier, at Berlin, Germany, 13-17 May 2017.
- An ORAL talk on "Aqueous phase rearrangement of furfuryl alcohol to cyclopentanone using supported metal catalysts" in APCAT-7, Hotel Lalit Mumbai, 17-21 Jan 2017.
- 3. A poster presented on "Liquid Phase Hydrogenation of Furfural to 2-Methylfuran over Alumina Supported Bimetallic Copper-Cobalt Catalysts" in APCAT-7 at the Hotel Lalit, Mumbai, 17-21 January 2017.
- 4. A poster presented on "Effect of support on structure and performance of Cu-Co catalysts for liquid phase hydrogenation of furfural to 2-methyl furan" in an Annual Summit on Research and Innovation (SRI-2016) on 15/10/2016.
- 5. An ORAL talk on "Catalytic Upgradation of Bio-oil" in CHEMCON-2012 on 31 Dec-2012 at NIT Jalandhar.

### Professional institution memberships: Nil

#### Awards:

- Travel grant of Rs.101912.00/- awarded by Science and Engineering Research Board (SERB), Department of Science and Technology, New Delhi for an ORAL presentation of technical paper titled "Synthesis of gasoline additives via catalytic hydrogenation of biomass derived furfural and 5-hydroxymethylfurfural" in "2nd Green and Sustainable Chemistry Conference 2017" to be held during 14/05/2017 to 17/05/2017 at Berlin, Germany.
- **2.** PhD fellowship Rs.25000/28000 awarded by MHRD, India from 26/12/2014 to 11/07/2016 for doing Full time research at Chemical Engineering department, SVNIT, Surat-India.

#### **Other achievements:**

- Visited Berlin, Germany to attend Green and Sustainable Chemistry Conference 2017.
- Google Scholar Citation as on 31/05/2020 [208, H-index-6, I-index-6]