



SAGAR MAHENDRAKUMAR KAPADIYA

Lecturer
Chemical Engineering Department,
Government Polytechnic, Valsad

E-mail: sagarkapadiya@gpvalsad.ac.in

Website: www.gpvalsad.ac.in

Mobile: +91 7990631055

Dissertation Title: Novel approach towards extraction of essential oil from clove buds (M. Tech.)

EDUCATIONAL QUALIFICATION

M.Tech in Chemical Engineering Sardar Vallabhbhai National Institute of Technology, Surat	2013-2015
B.E. in Chemical Engineering Maharaja Sayajirao University of Baroda, Vadodara	2009-2013

WORK EXPERIENCE

1. Government Polytechnic, Valsad Lecturer	27/04/2018-Present
2. Shroff S. R. Rotary Institute of Chemical Technology, Vataria, Ankleshwar Assistant Professor	30/12/2015-30/12/2017
3. Pacific School of Engineering, Surat Assistant Professor	15/06/2015-22/12/2015

TECHNICAL SKILLS AND KNOWLEDGE

Artificial Neural Networks, MATLAB, ASPEN-HYSYS, Response Surface Methodology, Taguchi Method, Natural Product Extraction, Multi-Objective Optimization

SUBJECT TAUGHT

Mass Transfer, Utilities and Instrumentation in Chemical Plant, Safety and Hazard Management, Industrial Management, Industrial Stoichiometry

TRAINING AND WORKSHOP

1. "Induction Phase-II" online organized by NITTTR Bhopal during 21/06/2021 to 02/07/2021 (2 Week).
2. "Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems" NPTEL-MOOC

organized during 18/01/2021 to 12/03/2021 (1 Week).

3. "Comprehensive Online Intellectual Property Rights" online organized during 07/06/2020 to 14/09/2020 (2 Week).
4. "UDAYAM (Unlimited Digital Advanced Yearlong Academic Method of Learning) E-Content Development" organized online during 28/07/2020 to 18/08/2020 (1 Week).
5. "Accreditation for Diploma Engineering Programmes" NPTEL-MOOC organized during 27/01/2020 to 13/04/2020 (1 Week).
6. "Validating COs, POs, PEOs and their mapping for Mechanical, Fabrication, Metallurgy, Chemical, and Automobile, Plastic and allied branches" organized at RCTI, Ahmedabad during 20/01/2020 to 24/01/2020 (1 Week).
7. "Design of Experiment and Artificial Neural Network" organized at SVNIT, Surat during 04/11/2019 to 08/11/2019 (1 Week).
8. "Accreditation and Outcome based Learning" NPTEL-MOOC organized during 26/08/2019 to 18/10/2019 (1 Week).
9. "NBA Accreditation" organized at GEC, Surat during 26/08/2019 to 30/08/2019 (1 Week).
10. "Waste to Energy Conversion" NPTEL-MOOC organized during 25/02/2019 to 19/04/2019 (1 Week).
11. "Induction Phase-I" organized at NITTTR, Bhopal during 20/08/2018 to 31/08/2018 (2 Week).

PORTFOLIOS

- Store and Vikaslakshi Committee member [Institute level]
- CCTV/CWAN Committee member [Institute level]
- SSIP Tinkering Lab Committee member [Institute level]
- NBA Coordinator [Department level]
- Write-off Coordinator [Department level]
- Examiner/ paper setter at University level examinations

RESEARCH PROJECTS GUIDED

None

PUBLICATION

Journal Papers

1. **Kapadiya, Sagar M.**, Parikh, Jigisha, and Desai, Meghal A. "A greener approach towards isolating clove oil from buds of *Syzygium aromaticum* using microwave radiation." *Industrial Crops and Products* 112 (2018): 626-632.
2. **Kapadiya, Sagar M.**, and Desai, Meghal A. "Isolation of essential oil from buds of *Syzygium aromaticum* using hydrodistillation: multi-response optimization and predictive

modelling." *International Journal of Advance Research in Science and Engineering*. 6 (2017): 406-418.

3. **Kapadiya, Sagar M.**, and Desai, Meghal A. "Solar drying of natural and food products: a review." *International journal of agriculture and food science technology* 5, no. 6 (2014): 565.

Conferences Papers

1. **Kapadiya, Sagar M.**, and Desai, Meghal A. "Recent Advancement in Predictive modelling for Phytochemical Extraction using Artificial Neural Network", 3rd Afro-Asian International conference on Science, Engineering and Technology, (2015): 201-208.
2. Thakker, Miral and **Kapadiya, Sagar M.** "Bio oil from Algae: Opportunities and Challenges", 3rd Afro-Asian International conference on Science, Engineering and Technology, (2015): 247-250.

ACADEMIC PROJECTS GUIDED

Diploma final year projects on following topics:

Manufacturing of Acrylonitrile
Manufacturing of Methy Iso-butyl ketone
Manufacturing of Poly vinyl Chloride
Manufacturing of Salicylic acid

PATENT FILED

None

PROFESSIONAL INSTITUTION MEMBERSHIPS

- Associate Life Time Member-Indian Institute of Chemical Engineers (IChE), Kolkata, India.

EXPERT LECTURES

None

AWARDS

- MHRD scholarship for M. Tech. through GATE exam, Year 2013-2015.