

Shivangi Sharma

**M.Tech(Chemical Engineering),
Gold Medalist B.E(Chemical Engineering)
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Profile

M.P Young Scientist awarded professional pursuing PhD in Process Intensification having professional interest in Teaching, R&D and Quality Control and Simulation.

Skill Set

- Quality Control, Specification Management
- Onsite and Offsite emergency plans of various chemical industries
- Designing, Simulation, and Pilot scale experimentation of Reactive Distillation Columns
- Aspen Plus: Process Modeling(EAP101)-Certified
- Advance Process Control Using DMC Plus on Aspen Plus Software(APC1400)-Certified
- NCC, "A"-Certified

Achievements

- Conferred with 32nd MP Young Scientist Award, organized by MP council of Science & Technology, 2017
- Two Certified Chemical Engineering Simulation software namely, Aspen Plus training from Aspen Tech, Pune. 2014
- Conferred Gold Medal, Branch Topper B.E Chemical Engineering (2008-2012), MITS, Gwl
- Organized and conducted online Webinars, Virtual labs(DWSIM,COMSOL)and STCs.

Experience

Madhav Institute of Technology & Science-DU

(Aug 2022-Present)

- Blended mode teaching
- Department project Coordinator
- Conducting Seminar on Gaps in teaching/Learning, Virtual Lab
- Skill Internship Programme

Institute of Engineering, Jiwaji University Post- Guest Faculty

(Jan2020-July2022)

- Conducting Online/Offline classes for B.E
- Conducting Webinars, workshops and Alumni Meet
- Organizing Virtual Labs (DWSIM,COMSOL) and Tutorials

Disaster Management Institute Post- Technical Expert

(July2017-Nov2017)

- Engaged in activities pertaining to ERDMP certification of mid and down -stream oil and gas sector entities
- Policy formulation and documentation on Disaster management
- Onsite inspection for verifying compliance

Madhav Institute of Technology and Science
Post - Assistant Professor

(July 2015–May 2017)

- Developing new processes/systems to avoid critical failures with suppliers
- Procurement, Installation, and Maintenance of lab equipment
- Performing techno commercial analysis prior to procurement
- Coordinating and conducting departmental seminar, and expert lectures

Mondelez International/Cadbury India Ltd
GET–Quality and Production

(June 2012–Jul 2013)

Role & Responsibilities:

- Inspection, Testing, and Quality clearance.
- Vendor Development by aligning and controlling specification, quality control, shrinking lead time
- R&D-Performing innovative testing on packaging as well as product recipes
- Effectively removed Laminated consumption at per kg value stream as part of Six Sigma Project
- 100% RFT in delivery EM/PM-Regular review of incident through tracker RCA & CAPA closure

Publications:

- Presented and Published Paper entitled, “Allergen Management and Food Safety Compliance” at 7th National Conference on Challenge to Change at BVM College of Management Education, Gwalior (Dec 2021)
- Presented Paper entitled, “Reactive distillation- A Novel Enhanced Purity Technique for Reversible Reactions” at two days National Conference on “Recent innovations in Chemical Engineering” at MANIT, Bhopal (RICE – Feb 2021)
- Presented and Published Paper entitled “Molecular Reactive Distillation- A Single Step Single Column Technology for Synthesis of Polyesters” at M.P. Council of Science & Technology, Vigyan Bhawan, Bhopal (March-2017)
- Presented and Published Paper entitled “Process Optimization using multiplicity analysis for membrane assisted reactive distillation column” at NIT, Warangal (March-2015)
- Published Paper in Elsevier India entitled “Intelligent Optimization of Reactive Distillation for the case of Methyl Acetate” at Kerala, (2014)
- Presented and Published Paper entitled “Dynamic Behavior of TAE synthesis in Membrane Assisted Reactive Distillation” at JNU, Delhi (Dec-2014)
- Presented and Published Paper entitled “Steady state multiplicity analysis of Reactive Distillation: Experiment and Simulation” at IRD, Bangalore (August-2014)
- Presented and Published Paper securing first position entitled “Stretch Wrap- An Alternative to Traditional Packaging in Food Industry” at MIT, Aurangabad (April-2014)

Education:**Masters in Chemical Engineering at MITS, Gwalior (Jul 2013 -**

June 2015) Also worked as Teaching Assistance under TEQIP II from Jul 2013-april 2015) Key Result Areas:

- CGPA:8.53(Hons)
- Majors in Designing and pilot scale experiment of reactive distillation for synthesis of ether oxygenate TAAE.
- Expansion,optimization,dynamiccontrol,economicandsafetyanalysisofdistillation process using APSEN and HYSYS software
- Successfully undertaken academics of B.E and M.Tech course curriculum
- Conducting and managing seminars and departmental conferences

Bachelors of Engineering in Chemical from MITS, Gwalior(Jul2008-Jun2012)

- GoldMedalist,Finalaggregate:81%

Higher Secondary, CBSE Board from RKVM, Gwalior (Year2008)

- Finalaggregate:80%

High School, CBSE Board from RKVM, Gwalior(Year2006)

- Finalaggregate:76%

Trainings:

- UflexLtd.,Malanpur,M.P:Process Study of PET manufacturing in production Department
- NFL, Vijaipur, M.P :Process Study of Urea Plant in Production department