



**Name of the Faculty: Dr Harita R. Desai.**

**Designation: Assistant Professor of**

**Pharmacy**

**Email/Contact**

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**Teaching Fields : Industrial Pharmacy,**

**Pharmaceutical**

**Jurisprudence, Modern Pharmaceutics,  
Advanced Pharmaceutics I and II, Physical Pharmacy I and II Lab, Industrial  
Pharmacy Lab , Experimental Techniques in Pharmaceutical Sciences**

**Educational Qualifications:**

<b>S.No.</b>	<b>Degree</b>	<b>College/University</b>	<b>Year of passing</b>
<b>1</b>	PhD (Tech)	Institute of Chemical Technology-Deemed University	2016
<b>2</b>	M Pharm-Drug Delivery Technology	Institute of Chemical Technology-Mumbai University	2010
<b>3</b>	B Pharm	Bombay College of Pharmacy-Mumbai University	2007

**Recent Publications (in last 5 years):**

<b>S.No</b>	<b>Title</b>	<b>Journal details</b>
<b>1</b>	Chitosan Xanthan Gum Polyelectrolyte complex gel containing Curcumin loaded porous silica for wound healing	African Journal of Biological Sciences, 2024, 6 Si(2), 3583-3595

2	Theophylline Ascorbic acid cocrystals by Sonocrystallization method-Formulation and Characterisation Studies	Asian Journal of Pharmaceutical Clinical Research, 2024, 17(8), 114-120
3	Hot Melt Extrusion in engineering of drug Cocrystals: A Review	Asian Journal of Pharmaceutical Clinical Research, 2021, 14(8), 10-19
4	Book Chapter: Biosimilars in Clinical Trials	Book: Biosimilars for Cancer Treatment: A Promising Approach, 2024, 241-264, Springer Nature Singapore
5	Book Chapter: Hybrid nanoparticles to cross the blood–brain barrier	Nanocarriers for Drug-Targeting Brain Tumors, 2022, 565-586, Elsevier
6	Book Chapter: Impact of Parenteral Microemulsion on Healthcare Therapeutics: A Bird's Eye View	Pharmaceutical Microemulsions for Parenteral Delivery From Bench to Bedside, 2024, Apple Academic Press

#### Patents:

S.No	Patent Title	Patent number
1	Nanotechnology based antimicrobial bandage dispensing device	401690-001
2	Apparatus for developing polyherbal formulation for diabetic neuropathy	202410231

**Consultancy services:** Formulation development of Conventional and nano drug delivery systems, Analytical method development of formulations

#### Research Area and interests

- **Crystal Engineering** : Designing of Cocrystals of Therapeutic actives.
- **Nanotechnology based Drug Delivery Systems:** Formulation Development, Optimisation and Evaluation of Novel Drug Delivery systems based on Lipids and Polymers like Lipid polymer hybrids, Micelles, Nanoparticles(SLNs and NLCs), microemulsions, for solubility enhancement of poorly-soluble synthetic and herbal drugs for topical, oral, vaginal routes
- Exploring Innovative Ocular Drug Delivery Systems
- Exploring Nanocomposites. Polymer synthesis in drug delivery and Diagnostics

**Expertise and instrumental/research facilities you can provide to interested parties:**

