



AISSMS COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Chemical Engineering

Faculty Profile

Prof. P. M. Warke

ME (Chemical Engineering)

Assistant Professor

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☎ (020) 26058587; Extn: 1213



Research Areas / Areas of Interest

Process Equipment Design, Wastewater Treatment

Personal Details

Date of Birth : 22 /09/1968

Domicile: Maharashtra

Gender : Male

Blood Group: A+ve

Contact Details: A-401, Aarav Cooperative Housing Society Ltd., Behind Shri.
Mhatoba Temple, Kothrud, Pune-411038.

Academic Background

| S. NO. | Qualification | Specialization | University | Class/Grade | Year of Passing |
|--------|---------------|----------------|------------------------|----------------|-----------------|
| 1 | BE | Chemical Engg. | Pune | 61.4 | 1994 |
| 2 | ME | Chemical Engg. | Savitribai Phule, Pune | 8.010 C.G.P.A. | 2017 |

Work Experience

| S. No. | Type of Experience | Years | Months |
|--------------|--------------------|-----------|----------|
| 1 | Teaching | 27 | 06 |
| 2 | Research | --- | ---- |
| 3 | Industry | ----- | ---- |
| 4. | Others | -- | -- |
| Total | | 27 | 6 |

Subjects / Courses Taught

| S. No. | Subject | UG/PG | Class (FE/SE/TE/BE/ME) | No of times Subject Taught |
|--------|--|-------|------------------------|----------------------------|
| 1 | Mechanical Operations | UG | SE (Chemical) | 06 |
| 2 | Chemical Engineering Design II | UG | BE (Chemical) | 07 |
| 3 | Process Engineering Costing & Plant Design | UG | BE (Chemical) | 04 |
| 4 | Environmental Engineering | UG | BE (Chemical) | 01 |
| 5 | Chemical Process Safety | UG | BE (Chemical) | 03 |
| 6 | Chemical Reaction Engineering I | UG | TE (Chemical) | 01 |

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|-----|---|----|---------------|----|
| 7. | Mass Transfer II | UG | TE (Chemical) | 01 |
| 8. | Chemical Engineering Thermodynamics | UG | TE (Chemical) | 01 |
| 9. | Chemical Engineering Thermodynamics II | UG | TE (Chemical) | 02 |
| 10. | Petroleum Refining | UG | BE (Chemical) | 01 |
| 11. | Biochemical Engineering | UG | BE (Chemical) | 02 |
| 12. | Advanced Separation Processes | PG | ME (Chemical) | 03 |
| 13. | Advanced Reaction Engineering | PG | ME (Chemical) | 02 |

Research Publications

| | National | International | State | SCI/ Scopus Indexed | UGC Approved |
|--------------------|----------|---------------|-------|---------------------------|-----------------|
| Journals | -- | --- | ---- | ----- | ---- |
| Conferences | 10 | 02 | 01 | --- | -- |

Publication Details (Journals)

| S. No | Document Details | Authors | Year | Source Details | ISBN/ISSN | Publisher |
|-------|------------------|---------|------|----------------|-----------|-----------|
| | | | | | | |

Publication Details (Conferences)

| S. No | Document Details | Authors | Year | Conference Details | ISBN | Organised by |
|-------|---|------------------|------|--|------|---|
| 1. | Air cyclone separator (Enhancement for cyclone separator design for air pollution control) | <i>P M Warke</i> | 2014 | National Conference on 'Frontier Technologies in Waste management' | | Department of Chemical Engineering, AISSMS COE, Pune in |

| | | | | | | |
|----|--|--|------|--|--|---|
| | | | | | | association with VESBE Germany & sponsored by AICTE, New Delhi |
| 2. | 'Photocatalytic treatment of wastewater by using immobilized TiO ₂ nanoparticles' | P.M.Warke, Dr.K.R.Jethani, Dr.S.M.Jadhav | 2018 | Souvenir of International Conference BVU NANOCON018 | | BVCOE, Pune |
| 3. | 'Treatment of wastewater by using Zinc Oxide nanoparticles' | <i>Prashant Ghodekar, P.M. Warke</i> | 2018 | Souvenir of International Conference BVU NANOCON018 | | BVCOE, Pune |
| 4. | Treatment of phenolic pollutants by using large scale Photocatalytic Reactor | <i>P.M. Warke</i> | 2016 | National Conference on Energy & Environment sponsored by TEQUIP-II on March 26-27,2016 | | Department of Chemical Engineering, BV University's COE Pune |

PhD / ME / BE Student Guided for Project

| Level | Ph.D. | M.E. (PG) | B.E. (UG) |
|-------|-------|-----------|-----------|
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| | | | |
|------------------------------|---|-----|-----|
| No. of Student guided | - | --- | 134 |
|------------------------------|---|-----|-----|

Professional Memberships

| Professional Body | Level (National/ International) | Type (Fellow/Life/Annual) | Membership No. |
|--|---|----------------------------------|-----------------------|
| Indian Society for Technical Education | National | Life | LM- 30574 |

Patents / IPR Filed / Granted

| S. No | Investigator Details | Title | Year | Status (Filed/Granted) | Details |
|--------------|-----------------------------|--------------|-------------|-------------------------------|----------------|
| -- | --- | ----- | ----- | ----- | ----- |

Books Published

| S. No | Title | Name of the Publisher | ISBN/ISSN Number |
|--------------|--|------------------------------|-------------------------|
| 1 | An article was published on 'Career and Job opportunities in Chemical Engineering and Technology' in the Newspaper 'Dainik Lokmat' dated January 06, 2022. | | |

Research Grants Received

| S. No | Program | Duration | Funding Agency | Grant Amount |
|--------------|--|-----------------|-----------------------|---------------------|
| 1. | Research Project- Design of Bioreactor | 2007-09 | BCUD, SPPU, Pune | Rs. 1.0 Lakh |
| 2 | Research Project- Biomass Fermentation in 5 lit. stirring Bioreactor | 2011-13 | BCUD, SPPU, Pune | Rs. 0.80 Lakh |
| 3 | Consultancy Assignment on Wastewater Treatment | 2018-19 | SS Techno Ltd., Pune | 0.02 lakh |

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|---|--|---------|--------------------------------------|-----------|
| 4 | Consultancy Assignment on Wastewater Treatment | 2020-21 | Azeocryst Organics Pvt. Ltd., Taloja | 0.02 lakh |
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Details of Workshop / STTP / FDP / Seminar / Conferences Organized

| S. No | Title | Type | Duration | Level (State/National / International) | Sponsoring Agency |
|-------|--|------------|--|--|----------------------------------|
| 01 | Organizing member in two day 'Bioprocess Engineering' | Symposium | Two days | National | AISSMS COE, Pune |
| 2. | Organizing member in 'Frontier Technologies in Waste management' | Conference | Three days | / International | AISSMS COE, Pune & VESBE Germany |
| 3. | Online Entrepreneurship Development | Workshop | Half day | State | AISSMS COE, Pune |
| 4 | Industry Institute Interaction Meets (Offline & Online) | Conference | Three days (23/02/2019, 05/09/2020 & 12/09/2020) | State | AISSMS COE, Pune |
| 5 | CFD and its applications in Chemical Engineering | Webinar | One Day | National | AISSMS COE, Pune |
| 6 | 'Your Branding Page' - Writing an effective resume | Webinar | One Day | National | AISSMS COE, Pune |
| 7 | 'Equipment Layout' | Webinar | One Day | State | AISSMS COE, Pune |
| 8 | Design of Distillation Column by using Aspen and Hysys Software | Webinar | One Day | National | AISSMS COE, Pune |

| | | | | | |
|----|---|--|---------|-----------------------|-------------------------------|
| 9 | Plate Heat Exchanger | Webinar | One Day | Natio nal | AISSMS COE, Pune |
| 10 | Introduction to Chemical Plant Operation | Seminar & simulta nously Webina r | One Day | State | AISSMS COE, Pune |
| 11 | Corporate Ready | Seminar | One Day | State | AISSMS COE, Pune |
| 12 | Dress to Success: How to build your desired image and brand | Seminar | One Day | State | AISSMS COE, Pune |
| 13 | 'Career Opportunities in Chemical Engineering and Role of Chemical Engineers in Industries' | Webinar | One Day | Intern ationa l | AISSMS COE, Pune |
| 14 | 'Standards and necessity' | Seminar | One Day | State | BIS, Pune branch office |

Contribution as Resource Person

| S. No. | Place/ Organization | Topic | Level(National/Int/ State/Regional) | Date |
|--------|---------------------|---|-------------------------------------|---------------|
| 1 | BVCOE, Pune | as a Judge in competition of HACKETHON on Solving Industrial Problems | National | February 2019 |

| S. N | Title | Type | Duration | Organizer | Sponsoring Agency |
|------|---|--------------|----------|---------------------|-------------------|
| 1 | Online FDP on 'Promoting Quality Culture in | Natio nal | One week | AISSMS COE, Pune | |

| | | | | | |
|---|--|--------------|--|------------------------------------|-----------|
| | Technical Institutions' | | | | |
| 2 | Online FDP on ' Research in Environmental Engineering – A way forward' | Natio nal | One week | PCCOE, Akurdi Pune | |
| 3 | Online FDP on 'Advanced teaching tools, techniques and methodology for OBEs' | Natio nal | One week | AISSMS COE, Pune | |
| 4 | Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment | FDP | 10-15 June 2019 | AISSMS College of Engg, Pune | ISTE |
| 5 | Recent Advancements in Nanoparticles, Films and Membranes' | FDP | 10-14 August 2020 | Siddaganga IOT, Tumakuru. | |
| 6 | 'Recent Trends in Green Technology & Materials' (RTIGTAM-2021) | FDP | December 20- 24, 2021 | SCOE, Pune | |
| 7 | One Day Training on 'Standards', Industrial Visit and Two Days Training | Works hop | 07/02/2022, 13/04/2022, 6 & 7 th May 2022 | BIS, Pune branch office | BIS, Pune |

Major Professional Responsibilities Handled

| S. No. | Role and Responsibilities |
|--------|--|
| 1. | Department Coordinator- Centre for Information, Training and Placement |
| 2. | Department Coordinator- Industry Institute Interaction including Industrial Visits and One Faculty- One Industry |
| 3. | Mentor 'Standards' Club, AISSMS COE, Pune |
| 4 | Laboratory Incharge- Mechanical Operations |
| 5 | Department Coordinator- NAAC Criterion III |
| 6 | Department Coordinator- NBA Criterion VII |

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| 7 | Subjects (UG & PG) Chairman BOS Chemical Engineering SPPU, Pune |
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| S. No. | Awards |
|--------|---|
| 1. | Appreciations by Higher Authorities through Emails regarding Placement of Students and Industry- Institute Interaction. |

Declaration: I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

Mr. P. M. Warke

(Name with Signature)