

# Resume

## Dr. Yogesh S Padiya

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## Profile:

- **Ph.D. in Mechanical Engineering** from **Indian Institute of Technology Bombay**
- **Total 20 years** of teaching experience
- Worked as Principal (Approved by University) and Head of Department
- Working as Dean R & D
- Published **Two Patents** and **Papers at International level**
- **Certified Energy Auditor** by National Productivity Council, Ministry of power, New Delhi
- Carried **Energy Audits** and implemented **Energy Conservation Projects** at large and medium scale industries under M/s. Yajna Fuel Services, Thane

## Qualification Academic:

- **Ph.D. (Mechanical)** from **Indian Institute of Technology Bombay, Mumbai. (July 2012)**
- **M. Tech. (Energy Management)** with **81.77%** from **S.E.E.S., D.A.V.V. Indore. (January 1999).**
- **B.E. (Mechanical)** with **69.54%** from **S.S.G.M.C.E, Shegaon, Amaravati University. (May 1997)**
- **H.S.C. with 71.84%** from **Amaravati Board (March 1993).**

## Work Experience:

### 1. Academic:

- a. **Organization** : Don Bosco Institute of Technology, Mumbai  
**Post (Duration)** : *Professor (Jan'18 to till date)*
- b. **Organization** : A C Patil College of Engineering, Kharghar  
**Post (Duration)**: *Professor and Head (July'16 to Dec'17)*
- c. **Organization** : Sahakar Maharshi Shankarrao Mohite Patil Institute of Technology & Research, Akluj. Dist.Solapur  
**Post (Duration)** : *Principal (March'13 to July'16)*
- d. **Organization** : Konkan Gyanpeeth College of Engineering, Karjat. Dist. Raigad  
Affiliated to University of Mumbai  
**Post (Duration)**:
  - i. *Lecturer* in Mechanical Engg.Dept. (*Sep'98 to July'04*)
  - ii. *Assistant Professor* in Mechanical Engg. Dept. (*August'04 to Dec'11*)
  - iii. *Associate Professor* in Mechanical Engg. Dept. (*Jan'12 to Feb'13*)

### Subjects Taught:

- Heat and mass transfer, Hydraulic machineries, Refrigeration and air conditioning, Internal combustion Engine, Applied thermodynamics, Fluid mechanics, Thermal engineering, Non conventional energy sources, Strength of material, Power plant engineering.

### Other Responsibility:

- Workshop Superintendent from July 2010 to December 2011.
- Coordinator of student organization, MESA-PESA for 2005-06 & 2006-07.
- Coordinator for Renewable Energy Club for 2006-07.
- Worked as Joint Chief Conductor for University Examinations.
- Carried "ScienceExpo" for 10 to 12<sup>th</sup> standard students at SMSMPITR
- Carried "Technofest" for Diploma and Degree Engineering students at SMSMPITR
- Actively worked for students admission and their placement
- Worked as Advertisement team head for institute admission
- NAAC coordinator for Forth Criteria
- Dean R & D

## 2. Industry:

**Organization** : M/s. Yajna Fuel Services, Thane

**Post (Duration)** : Associate consultant (from 1999 to till date on Assignment basis)

### Job Responsibility:

- Carried *Energy Audits* of almost all types of industries.
- Designed various *Heat Recovery Devices*.
- Designed and commissioned *Single Effect and Multiple Effect Evaporators, Solid Fuel Fired Boilers and Heat Recovery Systems*.

### Projects/Research Area:

#### Ph.D. : *Energy Efficient Small Capacity Desalination Unit*

- a. Designed energy efficient, compact and lower maintenance “Freeze Concentration based Desalination System operating on Reversible Heat Pump”. The system eliminates complications of conventional freezing technology.
- b. Designed and experimented small capacity desalination units, which were operated on condenser heat of split air conditioner. Demonstration of system had successfully generated potable water as 3 l/h.TR of cooling and also consumed lower extra parasitic power. The system is lower payback period and is applicable for residential and light commercial sectors.
- c. Both the systems are patented.

#### M. Tech. : *Energy Audit and Implementation of Energy Conservation Projects*.

- a. Improved the efficiency of Cogeneration plant for Textile mill at Mumbai
- b. Designed and commissioned a single effect evaporator for crystallization of sodium sulphate.
- c. Carried energy audits of Agro based industry, chemical industry and tiles manufacturing industry.
- d. Evaluated the performance of 50000 LPD capacity solar water heating system at Tata International, Dewas.

#### B.E. : *Study and Preventive Method Technology for Vibration*, at Hindustan Lever Ltd, Khamgaon, Dist Buldhana. (M.S.)

## **Publications:**

### ***Indian and International Patents***

- a. Padiya, Y S & Rane, M V (2010). Freeze concentration system using tubular heat exchangers. *Indian Patent* Application No. 1915/MUM/2010, *International patent PCT* Application No # PCT/IN2011/00430. (Published for open resource)
- b. Padiya, Y S & Rane, M V (2011). A condenser heat recovery Based distillation process and apparatus. *Indian Patent* Application No. 418/MUM/2011. *International patent PCT* Application No #PCT/IN2012/000106.

### ***International Journal***

- a. Rane, M V & Padiya, Y S (2011). Heat pump operated freeze concentration system with tubular heat exchanger for seawater desalination, *Energy for Sustainable Development*, 15, 184-191.

### ***International Conference***

- a. Rane, M V & Padiya, Y S (2007). Benefits of Heat Pump Assisted Freeze Desalination System. International Conference on Advances in Energy Research (ICAER), IIT Bombay. India.

### ***Indian Journal***

- a. Rane, M V, Padiya, Y S and Joseph M. (2011). Novel evaporatively cooled split air conditioner. *Cooling India Magazine*. September Ed.

## **Research Area:**

Evaporative cooling, Energy conservation in Utility, Solar collector, Desalination

## **Current Research Project:**

- a. Design and Testing of spherical balls for evaporative condenser
- b. Design and development of effective mopping mechanism for solar collectors

## **Membership :**

Life Member of ISHRAE chapter

**Personal Details:**

Date of Birth : 25/06/1975  
Sex : Male  
Marital Status : Married  
Languages Known : English, Hindi, Marathi

**Reference Persons**

1. Dr Milind V Rane, Professor, Mechanical Engg. Dept,  
Indian Institute of Technology, Mumbai, 022-25767514
2. Dr S V Prabhu, Professor, Mechanical Engg. Dept,  
Indian Institute of Technology, Mumbai, 022-25767515
3. Dr M G Gharpure, Proprietor,  
Yajna Fuel Services, Thane, 022-25384681, 25424983

**Dr. Yogesh S Padiya**