

	<b>Dr. Pravin Potdukhe</b>	Cell	9422839686
	Head of Department Department of Mechanical Engineering	WhatsApp	9623196216
	Date of Birth: 6th April, 1968 Date of Appointment : 21/08/1989	Email	pravinpotdukhe1@rediffmail.com
	Address: Plot No. 26, Jivtode layout, Nanaji nagar , Nagpur Road , Chandrapur District: Chandrapur (Maharashtra) Pin code: 442401		

### Education:

Degree	Institution	University	Research Topic/Project	Year of Completion
Ph.D	V.N.I.T., Nagpur	R.T. M. Nagpur University	Development, Simulation And Testing Of A New Type Of Solar Dryer For Agricultural Products	2007
M.Tech	Govt. College of Engg. Amravati	Amravati University	Design, fabrication, & performance evaluation of concentric annular heat pipe	1995
B.E. (Comp.Tech.)	W.C.E., Sangli	Shivaji University	Development of robotic arm for industrial purpose	1989

### Work Experience :

Teaching: 29Yrs

Research : 00 Yrs

Industrial : 00 Yrs

Name of Institute/Organization	Designation	No. of Years
Rajiv Gandhi College of Engineering, Research & Technology, Chandrapur	Lecturer	8
Rajiv Gandhi College of Engineering, Research & Technology, Chandrapur	Assistant Professor	10
Rajiv Gandhi College of Engineering, Research & Technology, Chandrapur	Professor	10
Rajiv Gandhi College of Engineering, Research & Technology, Chandrapur	Head of Department of Mechanical Engineering	3
Principal, Namdeorao Poreddiwar College of Engg & Tech, Gadchiroli	Principal	5 & ½

### Association:

College Level	University Level	Professional Bodies
1) Head of Department of Mechanical Engineering 2) Chairman, NAAC 3) Co-Chairman , admission committee	1) Member, Board of Studies, Gondwana University, Gadchiroli	1) Life Member- Indian Society for Technical Education (ISTE) 2) Member , Institution of Engineers (IE)

**Publications:** [Click to view Publications](#)

**Achievements:** [Click to view Achievements](#)

**Personal Web Page/ Link of Detailed Bio-Data:** [Click to View](#)

UG Subjects Taught:	PG Subjects Taught:
1) Fluid mechanics 2) Energy Conversion 3) Hydraulic Machines 4) I.C.engines 5) Automobile Engg 6) Industrial Management	NIL

Books Published:	No .of Conf/ Workshops Attended	No. of Patents Filed/ Granted	No. of Research Scholars
NIL	14	NIL	03

## Publications:

### A. Journal:

- 1.P.A. Potdukhe, S.B. Thombre, "Development Of New Type Of Solar Dryer: Its Mathematical Modelling & Experimental Evaluation", International Journal of Energy Research, John Wiley & sons, 2007
2. Potdukhe .P.A., Parelwar. S. P, Bhope . D.V., "Stress analysis of compressed air vehicle chassis by fem, International Journal of Engineering Science & Technology, Feb. 2012 Vol.4.
- 3.Potdukhe P. A. etal, " Solar assisted vegetable cart", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, Volume: 05 Issue: 06 | June 2018 , www.irjet.net p-ISSN: 2395-0072,pp 1706-1709

### B.Conferences

1. Potdukhe P.A. , "Heat pipe as an efficient heat recovery device ", at All India Seminar on Energy Management, "Eco Energy –95 "held by Institute of Engineers Nagpur Local Center, Jan. 1995.
2. Potdukhe P.A., Gorantiwar V. S., "Design & Fabrication of Solar Parabolic concentrator steam generator" at National Renewable energy convention 2001 held at Hyderabad during 26<sup>th</sup> , 27<sup>th</sup> & 28<sup>th</sup> Dec. 2001.
3. Potdukhe P.A., Thombre S.B.,, "Design, fabrication and performance of foldable agro solar dryer", presented at international conference on new millenium-alternate energy solutions for sustainable development held on 17-19' January 2003 at PSG College of Technology, Coimbatore, Tamilnadu, INDIA
4. Potdukhe P.A. and Thombre S.B., , " Experimental studies on Portable Agro Solar Dryer", at National Seminar on Energy Management and Optimization in Chemical, Mechanical & Electrical industries, held at Institution of Engineers, Nagpur during 11,12 February 2003.
5. Potdukhe P.A. and Thombre S.B., , " Performance Evaluation of detachable Agro Solar Dryer", presented & published at International Conference on Energy & Environmental Technologies for Sustainable Development, M.N.I.T., Jaipur, 8-10 October 2003.
6. Potdukhe P.A., Nilawar A.S. , " Experimental studies on use of petrol kerosene blend as fuel for S.I. engine ", presented & published at International Conference on Energy & Environmental Technologies for Sustainable Development, M.N.I.T., Jaipur, 8-10 October 2003.
7. Potdukhe P.A. and Thombre S.B., "Experimental Studies on inbuilt thermal storage agro solar dryer, 18th National & 7th ISHMT-ASME HEAT AND MASS TRANSFER CONFERENCE, organized by IIT, Guwahati, India, January 4-6, 2006
8. Potdukhe P.A. Potdukhe G.D., "Experimentation with different absorbers for a rural friendly solar dryer", 1<sup>st</sup> International conference on Recent developments in Mechanical Engineering, SUS College of Engineering & Technology, Tangori, Distt. Mohali (Punjab) India
9. Potdukhe P.A., Nilawar A.S., "Design, fabrication & performance studies on leaf plate making machine," presented & published at National Conference On Advances In Mechanical Engineering (Aim-2010)-Nov. 18 – 19, 2010
10. Potdukhe P.A., Nilawar A.S. , " Experimental studies on solar candle making machine", presented & published at NCNTE 2010 held on Feb.25-26, 2010

## Achievements:

Dr. Pravin Potdukhe

Professor & head of Department of Mechanical Engg,  
Rajiv Gandhi College of Engineering, Research & Technology(RCERT),  
Babupeth, Chandrapur.  
07132-274454, Cell: 9422839686  
pravinpotdukhe1@rediffmail.com

I graduated in B.E.( Mechanical Engineering) from prestigious Walchand College of Engineering, Sangli. I started my career in academics & joined as Lecturer in Department of Mechanical Engg, in RCERT, Chandrapur in 1989 .

Here I helped students to learn Energy Conversion , Advanced IC Engines, Fluid Power, Industrial management, Industrial Engineering , Industrial Economics & Engineering Drawing.

I guided & built projects such as heat pipe, battery operated bicycle, leaf cup making machine, pneumatic trainer, compressed air vehicle & solar candle making machine. I also worked on projects of energy auditing of industries.

I completed post graduation in Thermal Power Engg. from Govt. College of Engg. Amravati in 1995. I was promoted as Assistant Professor in 1997. I later completed post graduation in business administration from Sardar Patel Mahavidyalaya, Chandrapur in 1997.

I designed & tested solar dryer for my doctoral work from VNIT, Nagpur in 2007. I have published 12 research papers. I was promoted as Professor in 2007.

I have attended & actively participated in no. of conferences like 18th National & 7<sup>th</sup> ISHMT-ASME HEAT AND MASS TRANSFER CONFERENCE, organized by IIT, Guwahati, India, International Conference on Energy & Environmental Technologies for Sustainable Development, M.N.I.T., Jaipur, 8-10 October 2003.

I have attended & actively participated in workshops like " Shaping of S & T Resource centre(STRC) at Gondwana University, Gadchiroli on 18-19 January, 2013 "Patent Awareness Program" organised by Nagpur University & DST., 8<sup>th</sup> March, 2003.

I have worked as HOD of mechanical engineering 2008-2010 in which I improved academic standards by timely submission of assignments & tutorials by students & introducing GATE classes. I brought coordination of all faculty by having regular meetings. I carried out maintenance of all labs of department, helped students to revive MESA ( Students association), & motivated students to fabricate projects. We organized ISTE sponsored STTP on " Solar energy Technology for clean & sustainable environment". The work involved designing course work, coordinating experts & executing it.

I was Chairman of Board of Studies of Mechanical Engineering in Gondwana University, Gadchiroli from 2012 to 2015 & was instrumental in designing new syllabus of B.E. Mechanical Engineering & M.Tech (Heat Power Engg) for semester pattern apart from exam paper setting & moderation.

I served as Principal of Namdeorao Poreddiwar College of Engg & Tech , Gadchiroli from 2010 to 2016. Here I built no of systems for efficient working of college like academic calendar, work load, daily report

system, purchase system, weekly reports & laboratory development. I took efforts to publish newsletter & college magazine & successfully organised social & cultural programmes. I established ten cells like research advisory, exam, library mgmt, III, project, T&P, EDP, IQA, C&T & SRC for overall development of college. I initiated 5 clubs such as robo, flying, arts, idea & hiking to bring faculty & students together. I toured entire district for canvassing students to take engineering course. I along with faculty developed 22 labs like machine lab, CAD, Control engg., Structural engg, Geology, UHF, Heat transfer in college.

I am presently working as Professor & head of Department of Mechanical Engg, in RCERT, Chandrapur . I have been assigned work of establishing business incubator in college. I am also supervisor for three doctoral work in Gondwana University, Gadchiroli.

I am able administrator, good planner, & best at execution of goals set by organization with the resources in hand. I am in ever in search of new ideas & willing to experiment with them.

I belong to Chandrapur district, worked in Gadchiroli & have amicable relations with people across both districts.

I possess 26 years of academic experience combined with five & half years of administration experience.

## Bio-Data

Dr. Pravin Potdukhe  
Professor & Head , Department of Mechanical Engg,  
Rajiv Gandhi College of Engineering, Research & Technology(RCERT),  
Babupeth, Chandrapur.  
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pravinpotdukhe1@rediffmail.com

Objective: to bring smile on face of common man by building & making technologies reach them to earn their livelihood.

Academic Performance: High School to Highest Qualifications

Diploma / Degree	Name of Institute	Board / University	Year of passing	Percentage/Division
SSC	Lokmanya Tilak Vidyalyaya, Chandrapur.	Nagpur Board	1983	86/Distinction
HSC	Janata Mahavidyalaya, Chandrapur.	Nagpur Board	1985	89/Distinction
B.E. (Mech)	Walchand College of Engg., Sangli	Shivaji University	1989	68/First with Distinction
M.E.	Govt. College of Engg. Amravati	Amravati University	1995	73/First
M.B.A	Sardar Patel Mahavidyalaya, Chandrapur	R.T. M. Nagpur University	1997	Second
Phd	Vishvesharaya National institute of Technology, Nagpur	R.T. M. Nagpur University	2007	-----

Short term training programme attended

1. " Cryogenic Technology ", organised at I.I.S.C., Bangalore from 27<sup>th</sup> Sept. 1999 to 8<sup>th</sup> Oct. 1999
2. "Research Methods in Design", organised at I.I.T. Delhi from 7<sup>th</sup> Dec. to 18<sup>th</sup> Dec. 1999.
3. " Advances in Solar Energy Technology " at Mech. Engg. Deptt., S.V.R., College of Engineering & Technology, Surat from 3<sup>rd</sup> July to 14<sup>th</sup> July 2000
4. "Computer Aided Drafting & "C" Programming" at RCERT, Chandrapur from 19<sup>th</sup> Nov. to 30<sup>th</sup> Nov. 2001.

## Positions held

1. Lecturer : 21<sup>st</sup> August 1989 to 1997 in RCERT, Chandrapur .
2. Assistant Professor: 26<sup>th</sup> August 1997 to 2007 in RCERT, Chandrapur .
3. Professor : 28<sup>th</sup> August 2007 in RCERT, Chandrapur .
4. Head of the Department : 3<sup>rd</sup> May 2008-27<sup>th</sup> Oct.2010 in RCERT, Chandrapur .
5. Principal: Namdeorao Poreddiwar College of Engg. & Tech. , Gadchiroli;28<sup>th</sup> Oct.2010 to 16<sup>th</sup> March 2016
6. Professor & Dean(Planning & Organisation), Department of Mechanical Engg, in RCERT, Chandrapur from 17<sup>th</sup> March 2016 uptil

## R&D :

Design & Development of Solar Dryers, Energy auditing and management

## Subjects taught

Fluid mechanics, Power plant Engineering, Energy Conversion , Advanced IC Engines, Fluid Power, Industrial management, Industrial Engineering , Industrial Economics, Engineering Drawing

#### Projects guided

1. Vehicular Pollution
2. Design, fabrication & experimentation of heat pipe
3. Energy conservation in industries
4. Study & design of cold storage plant for Chandrapur market
5. Study & design, & fabrication of electromechanical valve
6. Integrated maintenance management software: Case study of charging system in M.E.L
7. Study & design, & fabrication of system to run I. C. engine on Gobar gas
8. Design, thermal analysis & fabrication of solar dryer for agricultural products
9. Development ,modification & experimentation of solar dryer
10. Design, fabrication & testing of battery operated bicycle
11. Natural convection heat transfer from heated cone
12. Development, simulation & experimentation of solar dryer for agricultural products
13. Development of pneumatic trainer & lifting platform
14. Energy auditing of small scale industries
15. Experimental evaluation of heat pipe & thermosyphon
16. Development of low cost solar dryer
17. Design & fabrication of solar candle making machine
18. Design & fabrication of leaf cup making machine
19. Design & fabrication of compressed air vehicle

#### Areas of interest

1. Energy conservation & management
2. Solar dryers
3. Solar energy systems
4. Thermal management systems
5. Design for heat transfer

#### Publications:

##### A. Journal:

- 1.P.A. Potdukhe, S.B. Thombre, "Development Of New Type Of Solar Dryer: Its Mathematical Modelling & Experimental Evaluation", International Journal of Energy Research, John Wiley & sons, 2007
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13. Potdukhe P.A., Thombre S.B., "Design, fabrication and performance of foldable agro solar dryer", presented at international conference on new millenium-alternate energy solutions for sustainable development held on 17-19' January 2003 at PSG College of Technology, Coimbatore, Tamilnadu, INDIA

14. Potdukhe P.A. and Thombre S.B., " Experimental studies on Portable Agro Solar Dryer", at National Seminar on Energy Management and Optimization in Chemical, Mechanical & Electrical industries, held at Institution of Engineers, Nagpur during 11,12 February 2003.
15. Potdukhe P.A. and Thombre S.B., " Performance Evaluation of detachable Agro Solar Dryer", presented & published at International Conference on Energy & Environmental Technologies for Sustainable Development, M.N.I.T., Jaipur, 8-10 October 2003.
16. Potdukhe P.A., Nilawar A.S. , " Experimental studies on use of petrol kerosene blend as fuel for S.I. engine ", presented & published at International Conference on Energy & Environmental Technologies for Sustainable Development, M.N.I.T., Jaipur, 8-10 October 2003.
17. Potdukhe P.A. and Thombre S.B., "Experimental Studies on inbuilt thermal storage agro solar dryer, 18th National & 7th ISHMT-ASME HEAT AND MASS TRANSFER CONFERENCE, organized by IIT, Guwahati, India, January 4-6, 2006
18. Potdukhe P.A. Potdukhe G.D., "Experimentation with different absorbers for a rural friendly solar dryer", 1<sup>st</sup> International conference on Recent developments in Mechanical Engineering, SUS College of Engineering & Technology, Tangori, Distt. Mohali (Punjab) India
19. Potdukhe P.A., Nilawar A.S., "Design, fabrication & performance studies on leaf plate making machine," presented & published at National Conference On Advances In Mechanical Engineering (Aim-2010)-Nov. 18 – 19, 2010
20. Potdukhe P.A., Nilawar A.S. , " Experimental studies on solar candle making machine", presented & published at NCNTE 2010 held on Feb.25-26, 2010

Conference & Seminars:

1. Attended All India Seminar on Energy Management. " Eco Energy –95 " organised by Institute of Engineers Nagpur Local Centre, January 1995
2. Attended International Conference on "New Millennium-Alternate Energy Solutions for sustainable development" organised by PSG College of Technology, Coimbatore, Tamilnadu, INDIA. 17-19 January, 2003
3. Attended National Seminar on Energy Management and Optimization in Chemical, Mechanical & Electrical Industries organised by Institution of Engineers, Nagpur, 11-12 February 2003
4. Attended Workshop on, "Patent Awareness Program" organised by Nagpur University & DST., 8<sup>th</sup> March, 2003
5. Attended International Conference on "Energy & Environmental Technologies for Sustainable Development ", organized by MNIT, Jaipur , 8-10 Oct., 2003.
6. Attended "One day NBA Awareness Workshop" organized by YCCE, Nagpur in collaboration with AICTE, Delhi on 29<sup>th</sup> Jan., 2004.
7. Attended "One day Machine condition Monitoring Workshop" organized by Department of Mechanical Engg, in RCERT, Chandrapur , on 20<sup>th</sup> March, 2004.
- 8 Attended "One day Workshop on Characterisation & utilization of silico- manganese slag" organized by Department of Mechanical Engg, in RCERT, Chandrapur on 22<sup>nd</sup> October, 2005.
- 9 Attended 18th National & 7th ISHMT-ASME HEAT AND MASS TRANSFER CONFERENCE, organized by IIT, Guwahati, India, January 4-6, 2006
- 10 Attended "One day Workshop on Characterisation of materials " organized by Department of Mechanical Engg, in RCERT, Chandrapur, on 23<sup>rd</sup> February, 2008

- 11 Attended " Workshop on Leadership beyond boundaries " organized by YCCE & NYSS Nagpur, on 12-13<sup>th</sup> December, 2008
- 12 Attended "Training Programme on Effective Role Execution for Institutional Development " organized by DTE & YCCE Nagpur, on 19-21<sup>st</sup> February, 2009
- 13 Attended "Workshop on Six Sigma" organized by Acharya Shrimannarayan Polytechnic,Wardha, on 28-30 January, 2010
- 14 Actively participated in two day workshop on " Shaping of S & T Resource centre(STRC) at Gondwana University, Gadchiroli on 18-19 January,2013

#### Extra Curricular Activities :

1. A talk on 'How to face interview' and written test for final year B.E. Mech. Engg. Students, 18<sup>th</sup> Dec., 1998.
2. Delivered a lecture on 'Time management' at CSTPS, Chandrapur, 30<sup>th</sup> July,2001.
3. Provided technical assistance to Adv. Sunil Hastak in Bhagvati Constructions Vs Turbo Machines in Maratha cement Works at Gadchandur on 7<sup>th</sup> Feb. 2002.
4. Member for paper presentation committee 'X-pedition 2002', RCERT, Chandrapur.
5. Member III Cell, RCERT, Chandrapur 2003 onwards.
6. Acted as judge for national level paper presentation & project model competition, ZEAL-2003 at BDCOE, Wardha on 11<sup>th</sup> & 12<sup>th</sup> March., 2003.

#### Administration :

1. Worked as MESA Incharge 1996-97.
2. Worked as department Incharge from 21<sup>st</sup> Dec. to 26<sup>th</sup> Dec., 1998.
3. Officer-In-Charge University exams for two times : Summer-1998, Summer 2006
4. Member of Training & placement committee 2000-01.
5. Secretary of ISTE, chapter 1999-2001.
6. Member of L.E.C., visited to Umrer College of Engg., Dec., 2002.
7. Co-ordinator for National Board of accreditation work from Jan. 2002 in the department.
8. Chairman, Registration Committee of ISTE-STTP on "Computer Aided Drafting & 'C' Programming" at RCERT, Chandrapur from 19<sup>th</sup> Nov. 30<sup>th</sup> November 2001.
9. Head of Department of Mechanical Engineering ,RCERT, Chandrapur from 3<sup>rd</sup> May 2008-27<sup>th</sup> Oct.2010.
10. Organised STTP ISTE sponsored on Solar Energy Technology for clean & sustainable environment from 23<sup>rd</sup> - 28<sup>th</sup> March 2009,at RCERT, Chandrapur
11. Chairman, Board of studies, Mechanical Engineering ,Gondwana University, 2012-2115
12. Principal: Namdeorao Poreddiwar College of Engg. & Tech. , Gadchiroli;28<sup>th</sup> Oct.2010 to 16<sup>th</sup> March 2016

#### Membership:

1. The Indian Society for Technical Education
2. The Institution of Engineers (India)