



Vidya Prasarak Mandal's

## Maharshi Parshuram College of Engineering

Hedvi Guhagar Road, At : Velneshwar, Taluka : Guhagar,  
District : Ratnagiri, Maharashtra 415 729. INDIA.

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Velneshwar

*Education*  
*on the lap of Nature ...*



The suggestive symbols of an illuminated lamp, open book, a pen, an inkpot and a flower in the emblem of VPM mentions in Sanskrit that :

**प्रज्वलितो ज्ञानमयः प्रदीपः**  
**प्रज्वलितो ज्ञानमयः प्रदीपः**  
Translated into English it means that :  
'The lamp of knowledge has lit'

## Vidya Prasarak Mandal, Thane (VPM)

### TRUSTEES

Dr. V. V. Bedekar  
Shri. H. T. Thanawala  
Shri. S. K. Joshi  
Shri. S. V. Vengurlekar

### MANAGING COMMITTEE

Dr. V. V. Bedekar	Chairman
Shri. M. Y. Gokhale	Treasurer
Shri. Uttam Joshi	Secretary
Shri. J. N. Kayal	Joint Secretary
Shri. M. N. Patil	Member
Shri. S. V. Karandikar	Member
Shri. D. G. Joshi	Member
Dr. A. N. Bapat	Member
Smt. A. A. Bapat	Member
Shri. Aniruddha Joshi	Member
Dr. Mahesh Bedekar	Member

## MAHARSHI PARSHURAM COLLEGE OF ENGINEERING

Dr. Kamalakar Dinkar Desai B.E.(Elect.), M.E. (Spe. Comp. Science), PhD (Tech.)	Director
Dr. Avinash Madhukar Chincholkar PhD (CAD-CAM, IIT-Madras) MBA(HRM)	Principal



## VISION

VPM ( Thane ) is Committed to run educational Institutions of excellence, driven by creativity and Innovation, through state-of-art infrastructure, With a view to provide quality, value based, education seeking holistic development of student's and teachers' personalities to enable them to become socially responsible citizens.

## MISSION

To establish and develop institutions of excellence, in education, research, training and development in different disciplines of learning at primary, secondary and tertiary levels, with learner-centric pedagogically effective learning ambience and state-of-the art technology that can encourage learning by spirit of inquiry, group work, discovery, imbibing moral and cultural values and institutional and individual leadership with social responsibility.

## GOALS

- ❖ To contribute to the development of teachers (facilitators) who can deliver state-of-the-art knowledge to students and develop mindsets and abilities to convert knowledge into skilled action and contribute to social capital formation.
- ❖ To provide state-of-the-art facilities to teachers and students with a view to develop holistic personalities driven by fundamental values of life-mutual respect, collegial attitude, creative and cognitive thinking, self directed learning, spirit of enquiry, environmental stewardship, transparency, diversity of ideas, academic freedom, respect for democratic values and dignity of individual.
- ❖ To develop industry academia partnership which can help to identify ways and means of establishing linkages to mutual advantage of education and industry through educational and training programs, case studies, consultancy services, students projects and summer and final placements et al.
- ❖ To develop linkages with various stakeholders of the Konkan region and Maharashtra State which can facilitate the making of MPCOE as a hub for various education and education related activities for empowering and enriching the fraternity of the Konkan region and society at large.
- ❖ To evolve MPCOE as a Centre for Student Advisory and Development services of the Konkan region which can

Guide and mentor student pursuing higher education and encourage the student population in favour of higher, value added, educational products and services in Engineering, Management and other related disciplines.

Counsel students to make appropriate choices of career paths and courses based upon their competencies, demand for certain kinds of special skills and added qualification's.

To emerge as a full-fledged, duly accredited, centre for excellence which will be a highly interactive learning organisation interface industry, business and trade for imparting practical knowledge as all levels and contribute to the process of national and global development.



**Dr. Vijay V. Bedekar**

## CHAIRMAN'S MESSAGE

It therefore gives me a great pleasure to extend a very warm welcome to prospective students and teachers of this new institution. Your future livelihood and personal goals are greatly influenced by the choices you make today. We are committed to excellence in the field of education and our track record, of the last eight decades, bears testimony to the same. It is VPM's vision to make MPCOE a 'leading dynamic and responsive centre of excellence in technology, engineering and management in the world.' I recommend this vision as a credo and hope that this will be attained and always well sustained.

**Dr. Vijay V. Bedekar**

Chairman, Vidya Prasarak Mandal, Thane



**Dr. K. D. Desai**

## DIRECTOR'S MESSAGE

Hello everyone !

Welcome to the new educational township at Velneshwar, in clean, green and pollution free environment of the Konkan. VPM 's Maharshi Parashuram College Of Engineering (MPCOE) is at Velneshwar, Taluka - Guhagar.

VPM 's MPCOE, is a step ahead towards training engineers at engineering college affiliated to Mumbai University offering six Degree Engineering Courses viz:

- Mechanical Engineering
- Electrical Engineering
- Electronics and Telecommunication Engineering
- Computer Engineering
- Instrumentation Engineering
- Civil Engineering (Proposed)

Understanding the need of growing industry, we initiated Industry Institute Interaction by organizing series of personal development programs and technical exhibitions to grow the self confidence, creativity and communication skills. The vision of Ex- President Dr. ABDUL KALAM, stating the power of computer in education has been integrated in imparting training utilizing e-learning concept all throughout the training. Care has been taken to see that every student's personality is developed which will contribute to build strong India. We look forward to informing you more about VPM's MPCOE and answering any question that you might have. We invite you all to visit our MPCOE green technology campus, encouraging us to build prospective careers in techno growth of India.

**Dr. K. D. Desai**, Director, MPCOE

B.E.(Elect.), M.E.(Sub.-computer science), Ph.D.( Technology )



**Dr. A. M. Chincholkar**

## PRINCIPAL'S MESSAGE

Dear student,

Greetings from Dr Chincholkar!!!

At the outset I thank you for choosing VPM's Maharshi Parashuram College of Engineering (VPM's MPCOE), Velneshwar, for realizing your Engineering dream. On behalf of the Management of VPM, and faculty & staff of the college, I welcome you on-board our educational ships on Engineering voyage.

In MPCOE, we believe in and practice quality and technology, and are particular about punctuality and discipline. You can feel it in our class rooms, laboratories, auditorium, computer centre, hostel rooms, canteen, library, gymkhana, and other facilities. We have taken utmost care while recruiting our faculty and staff. Our campus boasts of other amenities essential for a residential township such as well furnished hostels, sports grounds, guest-house for parents and visitors, staff quarters and utility centre.

I wish you comfortable, enjoyable and fruitful learning years in MPCOE, Velneshwar, and a bright and meaningful future.

**Dr. Avinash Madhukar Chincholkar**, Principal

PhD (CAD-CAM, IIT-Madras), M.Tech. (Production Engg), B.E. (Mechanical)

MBA (Human Resources Management)



## ABOUT VIDYA PRASARAK MANDAL, THANE (VPM)

Vidya Prasarak Mandal, Thane is a 77 year old Charitable Educational Trust committed to quality education. It runs Marathi and English Medium Schools, Arts, Commerce, Science, and Law Colleges, Management Institute, Polytechnic, IT Centre, Advanced Study Centre and a Foreign Language Centre (French / Japanese / German / Chinese).

- ❖ More than **15000 students** get quality education from **KG to PG** through the schools and colleges run by VPM, Thane.
- ❖ VPM's English Medium School has almost **100% result** of SSC Board from several years.
- ❖ VPM's Arts, Commerce and Science Colleges are **NAAC accredited "A+" Grade B**. N. Bandodkar College of Science received **Best College Award** for 2009-10 and K. G. Joshi. College of Arts & N. G. Bedekar College of Commerce received **Best College Award** for 20011-12 from University of Mumbai.
- ❖ VPM's Polytechnic, Thane, is privileged to be the first accredited, unaided Polytechnic which has been adjudged as the winner of **ISTE-Narsee Monjee Award for Polytechnic having Best Overall Performance in Maharashtra State for the year 2009**.
- ❖ VPM, has two separate educational campuses in Thane, one for Schools and the other for Colleges with modern educational infrastructure like **Fibre Optic Backbone, Auditorium with video conferencing technology, Leasedline connectivity, Digitisation of libraries and whole campus with WiFi facility** etc.
- ❖ VPM has been given permission by the All India Council for Technical Education (AICTE) to start **VPM's Maharshi Parshuram College of Engineering (MPCOE)** at Velneshwar, Tal-Guhagar, Dist.-Ratnagiri from the academic year 2012-13.
- ❖ AICTE has approved Five Engineering Degree Courses affiliated to the University of Mumbai viz. **Mechanical, Electrical, Electronics and Telecommunication, Computer and Instrumentation Engineering** of 60 intake capacity each to be conducted from this academic year 2012-13 & proposed to start Civil Engineering from Academic year 2013-14.

## SALIENT FEATURES

- 1 A huge 35 Acres Engineering College campus in Velneshwar, Tal-Guhagar, Dist –Ratnagiri.
- 2 We offer 'Bachelor of Engineering' courses affiliated to 'University of Mumbai '

**1 Civil Engineering - 60 seats (proposed from 2013 - 14)**

**2 Computer Engineering - 60 seats**

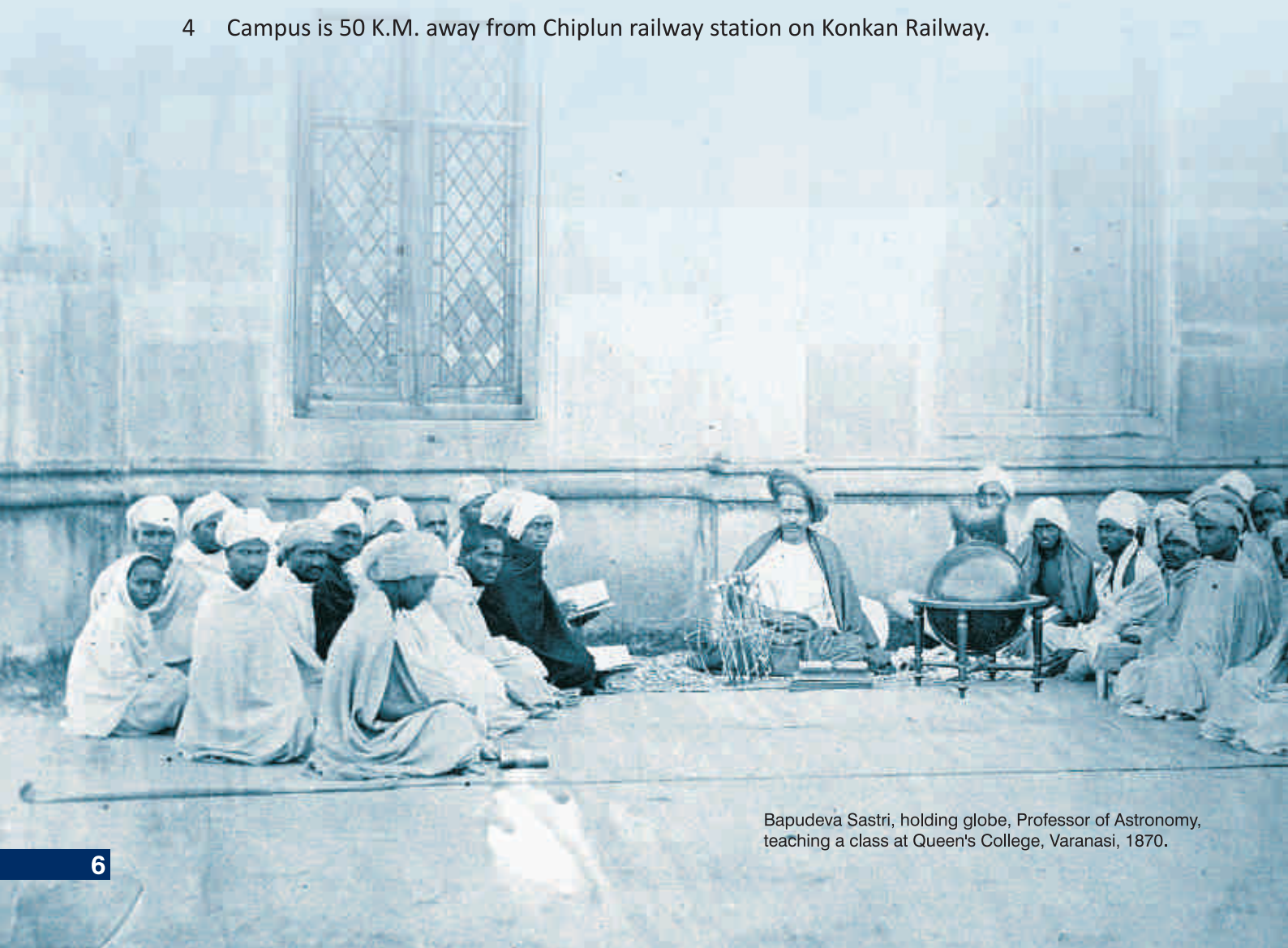
**3 Electrical Engineering - 60 seats**

**4 Electronics and Telecommunication Engineering - 60 seats**

**5 Instrumentation Engineering - 60 seats**

**6 Mechanical Engineering - 60 seats**

- 3 Engineering College is situated on proposed coastal highway and five k.m. away from Velneshwar Beach. Beautiful College campus viewing sea face.
- 4 Campus is 50 K.M. away from Chiplun railway station on Konkan Railway.



Bapudeva Sastri, holding globe, Professor of Astronomy, teaching a class at Queen's College, Varanasi, 1870.

- 5 35 Acres township college campus is proposed to contain 6 academic buildings consists of Step Auditorium for every building, 10 hostel buildings, 10 Teachers buildings, Gymkhana building, utility building and guest house.
- 6 Qualify Teaching staff
- 7 24 hours Electronic Security system, Bank Debit card cum I-Card facility, ATM Centre in the college Campus.
- 8 7 am to 11 pm library facility in the campus with National and International data bases
- 9 International Standard Hostels, two students in each room comprising attached toilet with 24 X 7 hours Internet facility.
- 10 Best Quality Canteen and Mess in the campus.





- 11 Spacious Class rooms / Laboratory having facility of projectors, smart boards
- 12 Guest House for Parents and Visitors.
- 13 First Aid/Medicine facility
- 14 Bank facility/ stationery shop/Laundry and basic need facility
- 15 Open Theatre in the college campus.
- 16 Care has been taken to see that every student's complete personality is developed which will contribute to build strong India.



## FACILITIES

### LIBRARY

- Well equipped library
- 900 titles and over 3600 volumes
- 150 Students seating capacity
- OPAC – Online Public Access Catalog
- Digital Repository
- Online Database
- Multimedia Center
- Wifi / Internet enabled

### HOSTEL

- 2 students per room
- Attached Toilet / Bathroom
- Each student will have Student Desk and Wardrobe
- All room equipped with Internet access / Wifi
- Each room with independent balcony
- Hostel cluster of 5 building
- Hostel mess facility (breakfast/lunch / dinner)
- Lounge area with TV & Reading material

### CANTEEN

- Capacity of 150 Students
- Nourishing food – all type

### INTERNET

- 4 MBPS Lease Line Connectivity
- Entire campus Wifi enabled
- All Academic and Residential facility have Internet Capability

### LABS

- Physics Labs – 2
- Chemical Labs – 2
- Basic Electrical Lab
- Basic Electronics
- Computer Centre - 75 Computers with WiFi and Internet
- Drawing Hall
- Language Lab – Language learning software with Audio Visual facilities

### MEDICAL FACILITIES

- First Aid nursing station is provided with Doctor Available on call

### BANK

- Bank Branch / Extension Counter – Under Process

### POST OFFICE

- Post Office is proposed, meanwhile courier facility will be made available.

### GYMKHANA / CLUB

- Indoor Badminton Court
- All sports and recreation facilities

### UTILITIES

- Shopping Center & Basic facilities such as Laundry / Washing will be made available





## UNIVERSITY OF MUMBAI

### Bachelor of Engineering

**First Year Engineering (Semester I & II), Revised course from  
Academic Year 2012-13, (Rev-2012)  
(Common for all branches Engineering)**

Sub Code	Subject Name	Teaching Scheme					Credits Assigned		
		Theory	Pract.	Tut.	Theory	TW/Pract.	Tut.	Total	
FEC101	Applied Mathematics-I	04	-	01	04		01	05	
FEC102	Applied Physics-I	03	01	-	03	0.5	-	3.5	
FEC103	Applied Chemistry-I	03	01	-	03	0.5	-	3.5	
FEC104	Engineering Mechanics	05	02	-	05	01	-	06	
FEC105	Basic Electrical & Electronics Engineering	04	02	-	04	01	-	05	
FEC106	Environmental Studies	02	-	-	02	-	-	02	
FEC101	Basic Workshop Practice-I	-	04	-	-	02	-	02	
		21	10	01	21	05	01	27	

### Scheme for FE-Semester-I

Sub Code	Subject Name	Examination Scheme							Total
		Theory Marks				Term Work	Pract.	Oral	
		Internal Assessment		End sem. exam					
Test 1	Test 2	Average of Test 1 and Test 2							
FEC101	Applied Mathematics-I	20	20	20	80	25	-	-	125
FEC102	Applied Physics-I	15	15	15	60	25	-	-	100
FEC103	Applied Chemistry-I	15	15	15	60	25	-	-	100
FEC104	Engineering Mechanics	20	20	20	80	25	-	25	150
FEC105	Basic Electrical & Electronics Engineering	20	20	20	80	25	-	25	150
FEC106	Environmental Studies	15	15	15	60	-	-	-	75
FEC101	Basic Workshop Practice-I	-	-	-	-	50	-	-	50
				105	420	175	-	50	750

**First Year Engineering (Semester I & II), Revised course from  
Academic Year 2012-13, (Rev-2012),  
(Common for all branches)**

Sub Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Pract.	Tut.	Theory	TW/Pract.	Tut.	Total
FEC201	Applied Mathematics-II	04	-	01	04		01	05
FEC202	Applied Physics-II	03	01	-	03	0.5	-	3.5
FEC203	Applied Chemistry-II	03	01	-	03	0.5	-	3.5
FEC204	Engineering Drawing	03	04	-	03	02	-	05
FEC205	Structured Programming Approach	04	02	-	04	01	-	05
FEC206	Communication Skills	02	02	-	02	01	-	03
FEC201	Basic Workshop Practice-II	-	04	-	-	02	-	02
		19	14	01	19	07	01	27

**Scheme for Semester-II**

Sub Code	Subject Name	Examination Scheme								
		Theory Marks				Term Work	Pract.	Oral	Total	
		Internal Assessment		End sem. exam						
Test 1	Test 2	Average of Test 1 and Test 2								
FEC201	Applied Mathematics-II	20	20	20		80	25	-	-	125
FEC202	Applied Physics-II	15	15	15		60	25	-	-	100
FEC203	Applied Chemistry-II	15	15	15		60	25	-	-	100
FEC204	Engineering Drawing	15	15	15		60	25	50	-	150
FEC205	Structured Programming Approach	20	20	20		80	25	25	-	150
FEC206	Communication Skills	10	10	10		40	25	-	-	75
FEC201	Basic Workshop Practice-II	-	-	-		-	50	-	-	50
				95		380	200	75		750

**(As per Credit Based Semester and Grading System with effect from the academic year 2012 - 2013)**

## Vidya Prasarak Mandal, Thane Group of Institutions

- ❖ Dr. Bedekar Vidya Mandir ( Marathi Medium School)
- ❖ Sou. A. K. Joshi English Medium School
- ❖ B. N. Bandodkar College of Science
- ❖ K. G. Joshi College of Arts
- ❖ N. G. Bedekar College of Commerce
- ❖ VPM's TMC Law College
- ❖ Dr. V. N. Bedekar Institute of Management Studies
- ❖ VPM's Polytechnic
- ❖ VPM's Advanced Study Centre
- ❖ VPM's Polytechnic IT Centre
- ❖ VPM's Centre for Foreign Language Studies
- ❖ VPM's Department of Defence and Strategic Studies
- ❖ VPM's London Academy for Education and Research
- ❖ VPM's Academy of International Education and Research
- ❖ VPM's Maharshi Parshuram College of Engineering
- ❖ VPM's Institute of Distance Education