

M.E. (Instrumentation & Control)(Biomedical Instrumentation)
Industrial Engg, Chemical Engg, Polymer Engg,
Printing Engg. & Graphic Communication.

Seat No :

October/April 200 .

Sr. No. :



University of Pune

EXAMINATION FOR DEGREE IN MASTER OF ENGINEERING (REVISED 2008 COURSE)

EXAMINATION FEE

Rs. 1440/- PER SEMESTER + Exam. Form Rs. 30/-

To,

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Sir,

I request permission to present myself for the Examination in Master of Engineering ()
2008 Course to be held in October/April, 200 , and pay herewith the prescribed Fee Rs. ()
I desire to offer the undermentioned papers for Sem. (I/II/III/IV) Examination.

I am submitting Dissertation of the Topic

Yours faithfully,

Date :

Signature

Branch :

College :

Male

 1

Centre :

Female

 2

Name :

(in Capital Letter) Surname First Name Father's/Husband's Name Mother's Name
South Indians/Other should enter the Name in Usual Form

Name in Devnagari Script :

Date of Registration as Post-graduate Students :

Particulars of that Registration :

Date of Passing B.E. Examination :

Year and Month

Branch

Seat No.

University

Date of Obtaining B.E. Degree :

Last Appearance at M.E. Examination :

Month

Year

Seat No.

P.R.N.

(Copy of last appearance of M.E. Examination should be enclosed).

[P.T.O.]

CERTIFICATE BY RECOGNISED TEACHER / GUIDE

I certify that Shri./Smt.
has worked under my direction for two/four academic terms from to
in College / Institute / Department and that the Dissertation
on a synopsis of which has been signed by me is entirely the
work of the candidate and has been approved by the University.

.....
(Signature of the Guide) Signature
Designation

CERTIFICATE BY THE HEAD OF THE INSTITUTION / COLLEGE

I certify that Shri./Smt.
has satisfactorily attended a course of lectures for each of papers. He/She has my
permission to appear for the Examination.

Signature
Designation

Address for Correspondence :
.....

**M. E. (Instrumentation & Control) (Biomedical Instrumentation)
(2008 Course)**

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
Sem. - I						Sem. - II					
5061101	Transducer Design	<input type="checkbox"/>	—	—	—	5061108	Control System Design	<input type="checkbox"/>	—	—	—
5061102	Mathematical methods in Instrumentation	<input type="checkbox"/>	—	—	—	5061109	Advanced Singal Processing	<input type="checkbox"/>	—	—	—
5061103	Communication ProtoCoIs for Instrumentation	<input type="checkbox"/>	—	—	—	5061110	Organisational Behaviour & Management	<input type="checkbox"/>	—	—	—
5061104	Analytical Instrumentation	<input type="checkbox"/>	—	—	—						
5061201	Elective I	<input type="checkbox"/>	—	—	—	5061204	Elective II	<input type="checkbox"/>	—	—	—
5061202	Lab Practice I	—	<input type="checkbox"/>	—	—	5061205	Elective III	<input type="checkbox"/>	—	—	—
5061203	Seminar I	—	<input type="checkbox"/>	—	—	5061206	Lab Practice II	—	<input type="checkbox"/>	—	—
						5061207	Seminar II	—	<input type="checkbox"/>	—	—
Sem. - III						Sem. - IV					
6061201	Seminar III	—	<input type="checkbox"/>	—	—	6061203	Project Stage II	—	<input type="checkbox"/>	<input type="checkbox"/>	—
6061202	Project Stage I	—	<input type="checkbox"/>	—	—						

<i>Elective 1 (5061201)</i>		<i>Elective 2 (5061111)</i>		<i>Elective 3 (5061112)</i>	
A	Fundamentals of Biomedical Instrumentation		Modern Control Theory		Advanced Process Instrumentation
B	Introduction to Physiology and Anatomy		Mechatronics		Automobile Instrumentation
C			Robotics		(Open Elective)

The Subjects of ME (Instrumentation & Control) (Process Instrumentation) having code 5061101, 5061102, 5061103, 5061104, 5061108, 5061109 and 5061110 are common for M. E. (Instrumentation & Control) (Biomedical Instrumentation).

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ME (Industrial Engineering)
(2008 Course)

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
Sem. - I						Sem. - II					
512101	Economics	<input type="checkbox"/>	—	—	—	511208	Reliability Engineering & Research Methodology	<input type="checkbox"/>	—	—	—
512102	Work Study & Ergonomics	<input type="checkbox"/>	—	—	—	511209	Costing & Finance	<input type="checkbox"/>	—	—	—
511203	Optimization Techniques & Simulation Modeling	<input type="checkbox"/>	—	—	—	511210	Productivity Management	<input type="checkbox"/>	—	—	—
511204	Elective I	<input type="checkbox"/>	—	—	—	511211	Elective III	<input type="checkbox"/>	—	—	—
511205	Elective II	<input type="checkbox"/>	—	—	—	511212	Elective IV (Open)	<input type="checkbox"/>	—	—	—
512106	Lab Practice I	<input type="checkbox"/>	<input type="checkbox"/>	—	—	511213	Lab Practice II	—	<input type="checkbox"/>	—	—
511207	Seminar I	—	<input type="checkbox"/>	—	—	511214	Seminar II	—	<input type="checkbox"/>	—	—
Sem. - III						Sem. - IV					
611201	Seminar III	—	<input type="checkbox"/>	—	—	611203	Project Stage II	—	<input type="checkbox"/>	<input type="checkbox"/>	—
611202	Project Stage I	—	<input type="checkbox"/>	—	—						

Elective I

- A. Marketing Management
- B. Human Resource Management
- C. Entrepreneurship Development
- D. World Class Manufacturing

Elective III

- A. Human Factors Engineering
- B. Process Planning & Manufacturing Engineering
- C. Management of Service Sector
- D. Industrial & Commercial law

Elective II

- A. Facilities Planning
- B. Network & Project Management
- C. Enterprise Resource Planning & Supply Chain Management Rights
- D. Systems Engineering

Elective IV

- A. Organizational Behavior
- B. Operations Management
- C. Product Design & Intellectual Property Rights
- D. Environmental Engineering & Energy Management.

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M. E. CHEMICAL
(2008 Course)

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
Sem. - I						Sem. - II					
509101	Applied Statistics for Chemical Engineers	<input type="checkbox"/>	—	—	—	509108	Process Modeling and Simulation	<input type="checkbox"/>	—	—	—
509102	Management of R & D in Chemical Industries	<input type="checkbox"/>	—	—	—	509109	Advanced Transport Phenomena	<input type="checkbox"/>	—	—	—
509103	Advanced Separation Processes	<input type="checkbox"/>	—	—	—	509110	Advanced Process Control	<input type="checkbox"/>	—	—	—
509104	Elective I	<input type="checkbox"/>	—	—	—	509111	Elective III	<input type="checkbox"/>	—	—	—
509105	Elective II	<input type="checkbox"/>	—	—	—	509112	Elective IV (Open)	<input type="checkbox"/>	—	—	—
509106	Lab Practice I	—	<input type="checkbox"/>	—	—	509113	Lab Practice II	—	<input type="checkbox"/>	—	—
509107	Seminar I	—	<input type="checkbox"/>	—	—	509114	Seminar II	—	<input type="checkbox"/>	—	—
Sem. - III						Sem. - IV					
609101	Seminar III (Based on Project)	—	<input type="checkbox"/>	—	—	609103	Project Stage II	<input type="checkbox"/>	—	<input type="checkbox"/>	—
609102	Project Stage I	—	<input type="checkbox"/>	—	—						

Elective I

1. Computational Fluid Dynamics
2. Process Design And Synthesis
3. Advanced Thermodynamics
4. Computer Aided Design

Elective III

1. Catalysis And Surface Phenomenon
2. Advanced Reaction Engineering
3. Mathematical Methods In Chemical Engineering
4. Bioprocess Engineering

Elective II

1. Industrial Pollution Control
2. Process Optimization
3. Drugs and Pharmaceutical Engineering
4. Fluidization Engineering

Elective IV

Open Elective

**M. E. Polymer Engineering
(2008 Course)**

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
Sem. - I						Sem. - II					
509115	Mathematical and Statistical Methods	<input type="checkbox"/>	—	—	—	509122	Polymer Physics and Characterization	<input type="checkbox"/>	—	—	—
509116	Principles of Management	<input type="checkbox"/>	—	—	—	509123	Polymer Structure and Properties	<input type="checkbox"/>	—	—	—
509117	Polymer Processing and Testing	<input type="checkbox"/>	—	—	—	509124	Processing and Mechanics of Composites	<input type="checkbox"/>	—	—	—
509118	Elective I	<input type="checkbox"/>	—	—	—	509125	Elective III	<input type="checkbox"/>	—	—	—
509119	Elective II	<input type="checkbox"/>	—	—	—	509126	Elective IV (Open)	<input type="checkbox"/>	—	—	—
509120	Lab Practice I	—	<input type="checkbox"/>	—	—	509127	Lab Practice II	—	<input type="checkbox"/>	—	—
509121	Seminar I	—	<input type="checkbox"/>	—	—	509128	Seminar II	—	<input type="checkbox"/>	—	—
Sem. - III						Sem. - IV					
609104	Seminar III	—	<input type="checkbox"/>	—	—	609106	Project Stage II	<input type="checkbox"/>	—	<input type="checkbox"/>	—
609105	Project Stage I	—	—	—	—						

Elective - I

- a. Polymer Reaction Engineering
- b. Transport Phenomena in Polymers
- c. Synthesis and Chemistry of Polymers

Elective - III

- a. Science and Engineering of Fibres
- b. Polymer Product Design
- c. Specialty Polymer Materials

Elective - II

- a. Polymer Rheology
- b. Mold and Die Design
- c. Packaging Technology

Elective - IV

- a. Paints And Adhesives Elective IV
- b. Elastomer Technology
- c. Open

M. E. (Printing Engineering & Graphic Communication)
(For 2008 Course)

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
Sem. - I						Sem. - II					
508101	Probability, Statistics and Queueing Theory	<input type="checkbox"/>	—	—	—	508108	Print Media Communications	<input type="checkbox"/>	—	—	—
508102	Printing Technology Management	<input type="checkbox"/>	—	—	—	508109	Web handling on Press	<input type="checkbox"/>	—	—	—
508103	Modern Trends in Printing	<input type="checkbox"/>	—	—	—	508110	Substrate and Ink	<input type="checkbox"/>	—	—	—
508104	Elective I	<input type="checkbox"/>	—	—	—	508111	Elective III	<input type="checkbox"/>	—	—	—
508105	Elective II	<input type="checkbox"/>	—	—	—	508112	Elective IV	<input type="checkbox"/>	—	—	—
508106	Lab Practice I	—	<input type="checkbox"/>	—	—	508113	Lab Practice II	—	<input type="checkbox"/>	—	—
508107	Seminar I	—	<input type="checkbox"/>	—	—	508114	Seminar II	—	<input type="checkbox"/>	—	—
Sem. - III						Sem. - IV					
608115	Seminar III	—	<input type="checkbox"/>	—	—	608117	Project Stage II	—	<input type="checkbox"/>	—	—
608116	Project Stage I	—	<input type="checkbox"/>	—	—						

Elective I				Elective II			
508104 A	Workflow Management in Printing Industry			508105 A	Digital Printing		
508104 B	Printing and Packaging Materials			508105 B	Entrepreneurship in Printing and Allied Fields		
508104 C	Design of Experiments & Research Methodology			508105 C	Quality Control Systems and Productivity		
Elective III				Elective IV			
508111 A	Multimedia Systems and Communication			508112 A	Open Elective (Self Study)**		
508111 B	Total Productive Maintenance in Printing			508112 B	Advances in Converting and Packaging		
508111 C	Press Finger Printing			508112 C	Analysis of Spot and Process inks		

**** Open Elective subject-BOS Printing Engineering & Graphic communication Will declare the list of subjects which can be taken under open elective.**