M.E. Electronics (Digital Systems)
  E & TC (VLSI & Embedded), E & TC (Signal Processing)
  E & TC (Microwave), E & TC (Communication Networks)

Seat No : ....

October/April 200 .

University of Pune

Sr. No. : ....

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

UNIPUNE ID No.

(Number given by Eligibility Section)

To,
  THE CONTROLLER OF EXAMINATIONS,
    UNIVERSITY OF PUNE,
    Pune–411007.
Sir,
  I request permission to present myself for the Examination in Master of Engineering (   )
2008 Course to be held in October/April, 20   , 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 ....

....

(Signature of the Guide)   Designation ....

CERTIFICATE BY THE HEAD/PRINCIPAL 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. Electronics (Digital System)
2008 Coruse

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
	Sem. I						**Sem. II**				
504195	Microelectronics	☐	—	—	—	504201	Embedded Systems	☐	—	—	—
504182	Principles and Practices for IT Management	☐	—	—	—	504202	Communication Network and Security	☐	—	—	—
504196	Signal Processing Architectures	☐	—	—	—	504203	Image Processing and Pattern Recognition	☐	—	—	—
504197	Elective - I	☐	—	—	—	504204	Elective III	☐	—	—	—
504198	Elective - II	☐	—	—	—	504205	Elective IV (Open)	☐	—	—	—
504199	Digital System Design Practice I	—	☐	—	—	504206	Digital System Design Practice II	—	☐	—	—
504200	Seminar I	—	☐	—	—	504207	Seminar II	—	☐	—	—
	Sem. III						**Sem. IV**				
604184	Seminar III	—	☐	—	—	604186	Project Stage II	—	☐	☐	—
604185	Project Stage I	—	☐	—	—						

Elective I (any *One*)

1. Fault Tolerant System Design ☐
2. Advanced Digital System Design ☐
3. Wireless and Mobile Technologies ☐

Elective II (any *One*)

1. Machine Intelligence ☐
2. Advanced Computing Architectures ☐
3. Memory Technologies ☐

Elective III (any *One*)

1. Digital Systems using PLDs ☐
2. Biomedical Signals and Systems ☐
3. Embedded video processing ☐

Elective IV (OPEN) (any *One*)

1. Reconfigurable Computing ☐
2. Embedded Automotive Systems ☐
3. Digital Signal Compression ☐

Any one subject of Elective IV from the following branches

1. Computer Engineering
2. Information Technology

M. E. (E & TC / ELECTRONICS) - (VLSI and Embedded Systems)
(For 2008 Course)

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
	Sem - I						**Sem - II**				
504181	Analog and Digital CMOS IC Design	☐	—	—	—	504188	Real Time Operating Systems	☐	—	—	—
504182	Principles and Practices for IT Management	☐	—	—	—	504189	Embedded Signal Processing	☐	—	—	—
504183	Embedded System Design	☐	—	—	—	504190	RF IC Design	☐	—	—	—
504184	Elective I	☐	—	—	—	504191	Elective III	☐	—	—	—
504185	Elective II	☐	—	—	—	504192	Elective IV (Open)	☐	—	—	—
504186	VLSI Embedded Practice I	—	☐	—	—	504193	VLSI Embedded Practice II	—	☐	—	—
504187	Seminar I	—	☐	—	—	504194	Seminar II	—	☐	—	—
	Sem - III						**Sem - IV**				
604181	Seminar III	—	☐	—	—	604183	Project Stage II	—	☐	☐	—
604182	Project Stage I	—	☐	—	—						

Elective I : (any *One*)

1. ASIC Design and Modeling ☐
2. Nanotechnology ☐
3. Machine Intelligence ☐

Elective II : (any *One*)

1. Reconfigurable Computing ☐
2. Memory Technologies ☐
3. VLSI EDA Tools ☐

Elective III : (any *One*)

1. Fault Tolerant System Design ☐
2. Biomedical Signals and Systems ☐
3. Advanced Digital System Design ☐

Elective IV (OPEN) : (any *One*)

1. Embedded Automotive Systems ☐
2. System-On-Chip (SoC) ☐
3. Software Defined Radio ☐

Or any one subject of Elective IV from the following branches

1. Computer Engineering
2. Information Technology

M.E. (E and TC) [Microwave]
(w.e.f. June - 2008)

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
	Sem - I						**Sem - II**				
504222	Electromagnetics and Antenna Theory	☐	—	—	—	504228	Microwave Integrated Circuits	☐	—	—	—
504182	Principles and Practices for IT Management	☐	—	—	—	504229	Signal Processing for Wireless Communication	☐	—	—	—
504223	RF Wave and Microwave Circuit Design	☐	—	—	—	504230	Mobile Communication - GSM and CDMA	☐	—	—	—
504224	Elective I	☐	—	—	—	504231	Elective III	☐	—	—	—
504225	Elective II	☐	—	—	—	504232	Elective IV (Open)	☐	—	—	—
504226	Lab Practice I	—	☐	—	—	504233	Lab Practice II	—	☐	—	—
504227	Seminar I	—	☐	—	—	504235	Seminar II	—	☐	—	—
	Sem - III						**Sem - IV**				
604190	Seminar III	—	☐	—	—	604192	Project Stage II	—	☐	☐	—
604191	Project Stage I	—	☐	—	—						

Elective I : (any *One*) (504224)

1. Applications of Microwaves to Radar and Satellite ☐
2. Digital Image Processing & Analysis ☐
3. Communication Networks ☐

Elective II : (any *One*) (504225)

1. Smart Antennas ☐
2. Speech Processing And Application ☐
3. Semiconductor Device Modelling and Technology ☐

Elective III : (any *One*) (504231)

1. Fibre Optic Communication ☐
2. System Design ☐
3. EMI and EMC Techniques ☐

Elective IV (any *One*) (504232)

Any *one* subject of Elective IV from the following branches

1. **Electronics Engineering** (any *One*)
   a) Reconfigurable Computing ☐
   b) Embedded Automotive Systems ☐
   c) Digital Signal Compression ☐
   OR
2. **Computer Engineering** (any *One*)
   a) Software Project Mgnt. ☐
   b) Infrastructure Mgnt. ☐
   c) Data Warehousing & Data Mining ☐
   d) Open Elective (Self Study) ☐
   OR
3. **Information Technology** (any *One*)
   a) Internet Rating Design ☐
   b) Adv. Network Programming ☐
   c) High Performance Computer Networks ☐
   d) Open Elective II (Self Study) ☐
   Service Oriented Architecture ☐

M.E. (E and TC) [Signal Processing]

(w.e.f. June - 2008)

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
	Sem. I						**Sem. II**				
504501	Linear Algebra and Random Processing	☐	—	—	—	504507	Microwave Integrated Circuits	☐	—	—	—
504182	Principles and Practices for IT Management	☐	—	—	—	504508	Signal Processing for Wireless Communication	☐	—	—	—
504502	Signal Processing Techniques	☐	—	—	—	504509	Mobile Communication - GSM and CDMA	☐	—	—	—
504503	Elective I	☐	—	—	—	504510	Elective III	☐	—	—	—
504504	Elective II	☐	—	—	—	504511	Elective IV (Open)	☐	—	—	—
504505	Signal Processing Lab I	—	☐	—	—	504512	Lab Practice II	—	☐	—	—
504506	Seminar I	—	☐	—	—	504513	Seminar II	—	☐	—	—
	Sem. III						**Sem. IV**				
604501	Seminar III	—	☐	—	—	604503	Project Stage II	—	☐	☐	—
604502	Project Stage I	—	☐	—	—						

Elective I : (any *One*) (504503)

1. Digital Image Processing ☐
2. Automotive Electronics ☐
3. Artificial Intelligence ☐

Elective II : (any *One*) (504504)

1. Biomedical Signal Processing ☐
2. Wireless and Mobile Communication ☐
3. Smart Antennas ☐

Elective III : (any *One*) (504510)

1. Acoustic and Speech Processing ☐
2. Digital Signal Compression ☐
3. Multimedia Techniques ☐

Elective IV (any *One*) (504511)

1. Radar and Satellite Signal Processing ☐
2. Operating System & Open Source Systems ☐
3. Computer Vision ☐

M.E. (E and TC) [Communication Networks]

Sub. Code	Subject	Paper	TW	Oral	Pract.	Sub. Code	Subject	Paper	TW	Oral	Pract.
	Sem. I						**Sem. II**				
504601	Coding and Modulation Techniques	☐	—	—	—	504607	Wired and Wireless Networks	☐	—	—	—
504182	Principles and Practices for IT Management	☐	—	—	—	504608	Network Traffic Analysis and QoS	☐	—	—	—
504602	Modeling and Simulation of Communication Networks	☐	—	—	—	504609	Wireless System Design - GSM and CDMA	☐	—	—	—
504603	Elective I (any One)	☐	—	—	—	504610	Elective III (any One)	☐	—	—	—
	1. Microwave and Antenna Theory	☐	—	—	—		1. Wireless Sensor Networks	☐	—	—	—
	2. Signal Detection and Estimation	☐	—	—	—		2. Mobile Computing	☐	—	—	—
	3. Ad-hoc Networks	☐	—	—	—		3. Network Security	☐	—	—	—
							** Open Elective : Institute will interact with industry to offer a need based topic BOS Info. Tech. will declare the list of subjects, which can be taken under Open Elective.				
504604	Elective II	☐	—	—	—	504611	Elective IV (Open)	☐	—	—	—
	1. RF MEMs	☐	—	—	—		1. Software Radio	☐	—	—	—
	2. Network Architecture and Design	☐	—	—	—		2. Neural Networks in Communication	☐	—	—	—
	3. Computational Electromagnetic	☐	—	—	—		3. Hardware Platforms for Networking Applications	☐	—	—	—
							OR any one subject of Elective IV from following branches:				
							1. M.E. (Computer Engg.)				
							2. M.E. (Informtaion Technology)				
							3. M.E. (Electronics Engg.)				
504605	Communication Network Design Practice I	—	☐	—	—	504612	Communication Network Design Practice II	☐	—	—	—
504606	Seminar I	—	☐	—	—	504613	Seminar II	—	☐	—	—
	Sem. III						**Sem. IV**				
604601	Seminar III	—	☐	—	—	604603	Project Stage II	—	☐	☐	—
604602	Project Stage I	—	☐	—	—						