

COMPUTER SCIENCE & ENGG DEPARTMENT

FOR EACH POST GRADUATE PROGRAMME GIVE THE FOLLOWING:

1. Name of the Department. Computer Science & Engineering
2. Title of the programme: M.Tech. (Computer Science & Engg.)
3. Curriculum and Syllabi:

CSE-601	Formal Methods in Computer Science
CSE-603	Object Oriented System Development
CSE-605	Database Modeling and Design
CSE-607	High Performance Computer Systems
CSE-609	Advanced Computer Networks
CSE-611	Object Oriented System Lab
CSE-613	Database Design Lab
CSE-615	Computer Networks Lab
CSE-617	Seminar

CSE-602	Data Mining
CSE-604	Artificial Intelligence and Soft Computing
CSE-606	Elective-1
CSE-608	Elective-2
CSE-610	Elective-3
CSE-612	Data Mining Lab
CSE-614	Elective-2 Lab
CSE-616	Elective-3 Lab
CSE-618	Mini Project
CSE-799	Dissertation/Thesis/Project

Note: a) At the most two subjects will be offered under each elective
b) Minimum strength required to offer an Elective Subject is Ten.

Elective-1 (CSE 606)

- CSE 606.1. Advanced Data Structures and Algorithms
- CSE 606.2. Distributing Computing Systems
- CSE 606.3. Network Management
- CSE 606.4. Security in E-Commerce
- CSE 606.5 Computer Vision

Elective-2 (CSE 608)

- CSE 608.1. Mobile Communications and Networks
- CSE 608.2. Digital Design with VLSI
- CSE 608.3. Web Services
- CSE 608.4. Advanced Computer Graphics

Elective-3 (CSE 610)

CSE 610.1.Compiler Design

CSE 610.2.Embedded Systems

CSE 610.3.Digital Image Analysis

CSE 610.4.Linux Internals

CSE 610.5 Information Storage and Management

Elective-2 Lab.: (CSE 614)

CSE 614.1. Mobile Communications and Networks Lab.

CSE 614.2. Digital Design with VLSI Lab.

CSE 614.3. Web Services Lab.

CSE 614.4. Advanced Computer Graphics Lab.

Elective-3 Lab. (CSE 616)

CSE 616.1.Compiler Design Lab.

CSE 616.2.Embedded Systems Lab.

CSE 616.3.Digital Image Analysis Lab.

CSE 616.4.Linux Internals Lab.

CSE 616.5 Information Storage and Management Lab.

For detail syllabus ref. Mandatory Disclosure PG Syllabus

4. Faculty Profile:

Sl.No.	Name	Designation	Subject Teaching
1.	Dr. N.V. Subba Reddy	Professor	Data Mining, Object oriented systems, Problem Solving using Computers, Artificial Intelligence.
2.	Dr. Prema K.V.	Professor & Head	Computer networks, internet technologies, neural networks, digital image processing, software engineering, Problem Solving using Computers, Neural networks, internet technologies, network security.
3.	Dr. U. Dinesh Acharya	Reader	Database Management Systems, Operating Systems, Systems Software, Object Oriented Programming, Problem Solving Using Computers, Compiler Construction, Data Structures, Advanced Database Management Systems, Object oriented Systems, Neural Networks.
4	Mr. Harish S.V.	Reader	On study leave
5	Mr. Gopalakrishna Kini N.	Reader	Microprocessors, Computer Architecture and organization, PC Systems, Interfaces and peripherals, Operating systems and Unix, Problem solving using computers Advanced computer Architecture and Parallel

6	Ms. Renuka A.	Reader	Algorithms High performance computer systems Computer Communication & Networks, TCP/IP & Internet Technology, Operating Systems, Embedded Systems, Advanced Computer Architecture, Assembly Language Programming, Digital electronics, Problem Solving using Computers, Real Time Systems, Embedded Systems, Mobile Computing, Image Processing, Advanced Computer Architecture and Algorithms
7	Ms. Ashalatha Nayak	Reader	Data Structures, Compiler Design, Programming languages, Data base Systems
8	Dr. Krishnamoorthi Makkithaya	Reader	Computer Networks, Distributed systems, P.C Systems, VLSI Design. Computer Programming, Embedded systems.
9	Dr. Hareesh K.S.	Reader	Computer Networks Operating Systems Introduction to UNIX and Shell Programming Computer Organization Computer Architecture Computer Programming Languages Artificial Intelligence & Soft Computing Data mining and warehouse

Brief profile of each faculty. Refer Mandatory Disclosure Faculty Profile

- Laboratory facilities exclusively for the PG programme.

Name of the Laboratory

Major Facilities

PG and Research Lab.	Pentium IV 2 GHz Computer Systems – 41 Nos, Server – HP Proliant ML 150 – 1 No., Laser Printer, CD Writer, LCD Projector, OH Projector, etc
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SPECIAL PURPOSE:

Software, design tools.

Visual Basic Professional V 5.0 M CD (MIT/CSE/PGR/VB-01),
Microsoft DOS 6.22(1set of 3 Floppies) (MIT/CSE/PGR/MD-01)
MS Windows 95 version(MIT/CSE/PGR/W95-01)
Borland Turbo C++suite with Users Guide version 3(MIT/CSE/PGR/BTC-01& BTC-02)

- Academic Calendar and frame work.

Academic Calendar and frame work

Events	I Semester	BE/B ARCH III, V, VII, IX Semesters & MCA III, V Sem.	I Semester MTech/ M Arch/ MCA
Orientation	July 16, 2009 (<i>Thursday</i>)	-	August 3, 2009 (<i>Monday</i>)
Commencement of Odd Semester	July 17, 2009 (<i>Friday</i>)	July 20, 2009 (<i>Monday</i>)	August 4, 2009 (<i>Tuesday</i>)
First Test (<i>Thursday, Friday, Saturday</i>)	August 20 – 22, 2009	August 20 – 22, 2009	September 3 – 5, 2009
Tech Fest – Tech -Tatva '09			
Second Test (<i>Tuesday, Wednesday, Thursday</i>)	September 22 – 24, 2009	September 22 – 24, 2009	October 8 – 10, 2009 (<i>Thursday, Friday, Saturday</i>)
Third Test (<i>Monday, Tuesday, Wednesday</i>)	October 26 – 28, 2009	October 26 – 28, 2009	November 12 - 14, 2009 (<i>Thursday, Friday, Saturday</i>)
Last instructional day (<i>Friday</i>)	November 13, 2009	November 13, 2009	November 28, 2009 (<i>Saturday</i>)
Commencement of End Semester Examination (<i>Monday</i>)	November 16, 2009	November 16, 2009	November 30, 2009
Last working day (<i>Saturday</i>)	November 28, 2009	November 28, 2009	December 11, 2009

			(Friday)
Commencement of Even Semester (Monday)	January 4, 2010	January 4, 2010	January 4, 2010
First Test (Thursday, Friday, Saturday)	February 11 – 13, 2010	February 11 – 13, 2010	February 11 – 13, 2010
Revels '2010			
Second Test (Monday, Tuesday, Wednesday)	March 15 – 17, 2010	March 15 – 17, 2010	March 15 – 17, 2010
Utsav '2010			
Third Test (Monday, Tuesday, Wednesday)	April 19 – 21, 2010	April 19 – 21, 2010	April 19 – 21, 2010
Last instructional day (Friday)	May 07, 2010	May 07, 2010	May 07, 2010
Commencement of End Semester Examination (Monday)	May 10, 2010	May 10, 2010	May 10, 2010
Last working day (Saturday)	May 22, 2010	May 22, 2010	May 22, 2010
Academic Year (2010 – 2011)			
Orientation	July 15, 2010 (Thursday)	-	August 2, 2010 (Monday)
Commencement of Odd Sem.	July 16, 2010 (Friday)	July 19, 2010 (Monday)	August 3, 2010 (Tuesday)

List of Holidays: 2009: August 15, September 21, October 2, 7 December 25

2010: January 26, April 2, and May 1

Research focus.

Data Mining, Theoretical Computer Science, Programming Languages and Language Processors, Computer Networks and Internet Technology, Computer Architecture, embedded Systems, VLSI, Operating Systems

List of typical research projects:

1. BAT Automation using STAF
2. Data Migration and Report Generation for Corebanking.
3. Integration, Porting of the regressions in Functional Model and Enabling Checkpointing for the QorIQ P1020 Functional Simulator.
4. Porting and Testing of Device Drivers.
5. CLEARBAY (Centro).
6. Loan Report Generation and Testing.
7. Automation of Regression Setup and checkpointing Free scale Communication Processor QorIQ P1020 Model.
8. Software Analysis, Design and Implementation of multiple hypothesis Tracking (MHT).
9. Automation Development for virtual center upgrade testing using silktest.
10. Quality assurance of product management system.
11. System Management of ESX server and automation of test procedures.
12. Parametric Neuro Security System with Intrusion Detection Capability.
13. One-boot Flash Update Automation Tool.

Industry Linkage: The current batch of M.Tech students are selected for internship by reputed companies like Intel, VMWare, ST Microelectronics, LSI Tech. Pune, Nokia Technologies. Cytrix Technologies.

Publications (if any) out of research in last three years out of masters projects.

1. Mr. Dasharathraj Shetty -Legal Process Outsourcing and Information Technology, International Conference on Business Process outsourcing, MIM, Manipal

Placements status

Intel - 02

VMWare - 08

ST Microelectronics - 01,

LSI Tech. Pune, Nokia Technologies, Cytrix Technologies - Resumes sent to these companies for remaining 12 students.

- **Admission Procedures**

- Manipal University conducts an all India level entrance test (PGET) every year. There is no separate agency for conducting this test. The admission office of Manipal University headed by Director of Admissions will conduct the entrance test.
- All the seats under general category are allotted for the students appeared for entrance test conducted by Manipal University (PGET).
- Admission to PG in Computer Science & Engineering is based on the merit of qualifying exam.

- **Fee Structure:**

Details of Fees for 2009-2010 batch PG Courses (amount in rupees)

PG Courses	FIRST YEAR				Second Year	Third Year	TOTAL
	Course fees	Reg. Fee	Caution Deposit	Total	Course fee	Course fee	
M TECH/ M Arch	147000	10000	7500	164500	118000	---	282500

- **Hostel Facilities in the Campus :**

- Hostel Library
- STD Booths
- Floodlit Basket Ball Court
- Table Tennis
- Gymnasium
- Swimming Pool
- Badminton Hall
- Cable TV
- Athletics, Football, Hockey, Volley Ball
- Washing Machine in Women's Hostel
- Night Canteen for Women
- Internet

Contact address of co-coordinator of the PG program.

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