

**HANDLE CAREFULLY. CONTENTS SHARP.**



## Our Faith

न चौर हार्यम् नच राज हार्यम् ।  
न भातृभाज्यम् नच भारकारी ।।  
व्यये कृते वर्धते एव नित्यम् ।  
विद्याधनं सर्वधन प्रधानम् ।।

Knowledge can neither be stolen by a thief,  
nor snatched by a king.  
It is indivisible unlike ancestral property,  
it never burdens the bearer,  
it multiplies manifold when offered to others.  
Knowledge is the supreme form of wealth.

THE MET LEAGUE OF COLLEGES  
**MET**  
AS SHARP AS YOU CAN GET

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## **Our Vision**

To shape professionals, to conquer the present and the future challenges to the socio economic fabric of our society, by institutionalising search, development, research and dissemination of relevant knowledge through structured learning systems.

## **Our Mission**

To evolve, develop and deliver dynamic learning systems to equip professionals with conscience and commitment to excellence and courage to face business challenges.

# ABOUT MET



Just a stone's throw away from the Arabian Sea, is an institution that is creating waves. Because, it is quite simply, a cut above the rest. The MET League of Colleges is a conglomerate of premiere educational institutions, driven by a single-minded focus on imparting quality education to make students sharp. Established in 1989, with a mission to redefine the system of education, MET is a professionally managed, multi-disciplinary and multi-faceted oasis of knowledge. Its premiere educational institutes conduct university accredited and autonomous programmes. The grant of the ISO 9001:2000 certification is an acknowledgment of the institution's capability to deliver professional education that meets the highest standards of professionalism worldwide. All this, to help young professionals face the challenges of life. And make their mark in the corporate world.

## MUMBAI CAMPUS

- Institute of Management
- Institute of Mass Media
- Asian Management Development Centre
- Institute of Pharmacy
- Institute of Medical Sciences
- Institute of Information Technology

- Institute of Computer Science
- Institute of Distance Learning
- Institute of Software Development and Research
- Institute of Trichology
- Institute of International Studies
- Rishikul Vidyalaya
- Knowledge Explorer - Publishing Division

## NASIK CAMPUS

- Institute of Management
- Institute of Pharmacy
- Institute of Engineering
- Institute of Technology (Polytechnic)
- Institute of Information Technology
- Institute of Distance Learning

# MET INSTITUTE OF COMPUTER SCIENCE

**Mission:** To create IT professionals, who blend effectively, technological skills with management perspective and to impart an inherent discipline that will help them to face the challenges in future.

MET ICS was established in 2001 in order to create a professional and innovative learning environment that focuses on creating IT professionals that effectively blend technology and management.

MET ICS conducts the three years, full-time Masters of Computer Application (MCA) affiliated to the University of Mumbai. At MET ICS, we strongly believe that the whole world is an IT professional's work place. Precisely, in the midst of well stocked books and reference library, a highly equipped computer laboratory with top of the line hardware and software, and through interactive sessions with dedicated faculty who are experts in their own fields of specialisation, students are not just technically nurtured but also professionally groomed with communication and presentation skills.

## Special Initiatives

MET ICS established a development cell in the area of Grid Computing and Cluster Computing. The initiative has been a step towards providing enhanced computing power to corporates, using the highly specialised networking and technical capabilities available at MET ICS.

## Tech@MET

### Sharp Minds ... Logged In!!

The biggest inter-collegiate Technical Festival in the city was organised by MET Institute of Computer Science. Titled as 'Tech@MET' the festival endeavored to alter the stereotypical 'Serious' image of Masters of Computer Application (MCA) students and offered something for everyone - from the most serious intellectuals to hardcore gamers. Tech@MET blew everyone's mind with fun games, crazy debates, paper presentations, awesome animations and quirky quizzes.

Dr. Rajeev Rastogi, Vice President, Yahoo! Labs, Bangalore and Mr. Kalayana Chakravarthy, Delivery Manager, Oracle University, Bangalore inaugurated the event. The day then swung into action with Technical Quiz, Coding and Debugging, Web Designing, interspersed with innovative events like Console Gaming, LAN Gaming, Advertising, and Blindfold.

**Ground 0:** After a hard semester's work, we like to relax in style. This event organised by MET MCA students was our way of relaxing. One whole day of non-stop, fun-filled, nail-biting, pulse-raising LAN Gaming event. Students indulged in 'Counter-Strike' and worked in teams to beat the others.

# MET INSTITUTE OF COMPUTER SCIENCE

## MET Utsav

MET Utsav, MET League of Colleges' annual cultural event seems to always draw our participation in large numbers. Each year the event consists of a vast numbers of activities and cultural programmes such as dance competitions, fashion shows, singing competitions, cricket matches, tele-matches, treasure hunts and also workshops on yoga, western dancing, acting, personality development etc. This event provides a stage for our students to explore their talents and prove that we can not only excel in studies but also in other extra-curricular activities.

## Future Forward ▶▶▶

MET ICS intends to undertake the following initiatives in the near future :

- Establishment of a unique study base among students and faculty.
- Strengthening the association with premiere research institutions like Microsoft, IIT, Bhabha Atomic Research Centre etc.
- Evolving unique models in distributed computing, using grid computing and web services.



Winners of Tech@MET 2009



Tech@MET 2009 - MET ICS Team



CA. Sunil G. Karve, Founder Trustee and Vice Chairman - MET with Dr. S. Mahajan, Principal - MET ICS, felicitating Oliveira Benita - MET MCA Student, 1st rank holder at the University of Mumbai



Dr. Sunita Mahajan, Principal - MET ICS; Chief Guest Mr. Kalayana Chakravarthy, Delivery Manager - Oracle University, Bangalore; Dr. Rajeev Rastogi, VP - Yahoo Labs, Bangalore; Mr. K.K. Mookhey, Principal Consultant - Network Intelligence (I) Pvt. Ltd; Mr. Pankaj Bhujabal, Trustee - MET

# FROM THE PRINCIPAL'S DESK



This year MET is celebrating two decades of completion. What has MET accomplished during these two decades is the million dollar question. We set out to start an education system with a difference, to evolve, develop and deliver a dynamic learning ambience which will equip the young generation to face the challenges of life more confidently.

IT Industry was booming till recently and our students were in much demand in IT corporate world like TCS, Accenture, L&T, Infosys, Patni Computers etc. However, the IT curve is showing slightly downhill trend. It only emphasises the fact that IT has a very competitive market and as per Darwin's theorem, survival of the fittest takes over.

We at MET endeavor to give our students that edge which prepares them for the tough competition. At MET Institute of Computer Science, we offer the Masters of Computer Application, a three years programme that is affiliated to the University of Mumbai and recognised by the All India Council of Technical Education (AICTE). We can proudly say that our students have been rank holders at the University of Mumbai, consistently. The first batch had Khyati Desai topping the list, then Archana Jadwani got second rank and recently, Benita Oliveira has again stood first at the University.

MCA is a specialised programme designed to fill the gap between Computer Scientists and Computer Engineers. The University of Mumbai is well aware of the fact that Industry feedback on the course syllabus is very important thus is modifying the course contents periodically.

MCA students learn the hardware basics, operating system concepts, database fundamentals, SQL, data structures, programming languages C, C++, Java and also focus their attention on object-oriented concepts. MCA being a post graduate programme, covers advanced computing concepts in distributed systems, networking, wireless computing, file structures and databases. The mathematical background is provided by subjects like discrete mathematics, probability and combinatorics. The changing scenario in IT industry is covered by introducing latest subjects like wireless computing, advanced database techniques, data warehousing and data mining, IT laws and patents, project management, etc., as electives. The students go for their Internship Projects in the final semester. Final semester also includes one foreign language like German, French or Japanese.

# FROM THE PRINCIPAL'S DESK

MCA is an intensive programme that covers technical as well as managerial aspects of computer applications. An MCA project trainee is fully capable of adapting to the requirements of the company. University of Mumbai has designed this programme with a careful thought to manifold demands of the computer industry.

We have introduced MET's cutting edge by providing an excellent infrastructure and a studious atmosphere for our students. We have a well-stocked library, a highly equipped computer laboratory, properly designed classrooms and a reliable computer network. Besides, through interactive sessions with our experienced faculty, the students are technically as well as professionally groomed with communication and presentation skills. As extracurricular activities, students can indulge in various indoor games at our recreation room as well as mentally relax themselves by doing Yoga in our Yoga room. This helps to invigorate their body and mind for the required hard work.

Our students get the opportunity to flex their intellectual muscles apart from academic work. They are encouraged to explore other interesting avenues in computer field, especially in choosing final year projects. Our first batch of MCA graduates has proved that this approach is correct. They are to be lauded for their excellent performance in academics. Our first batch has produced 12 first classes and 5 distinctions and one University Topper. This is no mean feat for an intensive programme like MCA. The second batch also followed their seniors closely by producing 31 First Classes and 6 distinctions. Our fifth batch has one University topper, 10 distinction holders and 42 first classes. So the result curve is upwardly continuous.

Our students have done their project training in many renowned institutes like Tata Institute of Fundamental Research, Bhabha Atomic Research Centre, Directorate of Technical Education and companies like Xorient, Datamatics, Tata Consultancy Services, Bristlecone, L&T, Patni etc. Their guides have given glowing reports about our students. They prove to be good workaholics, receptive to new ideas and extremely sincere in their project works. Our two students of the current batch – Sankalp Naik and Ajay Narayanswami are both doing their internship at Patni Computers. Their seniors are extremely pleased with their work and have given them Pat-On-Back award. We have received similar feedbacks from other companies where their batch-mates are doing their internship projects.

As the Principal, I am extremely confident that our students will excel in their future careers in any surrounding. I am equally sure that they will prove to be much required value additions to your company.

**Dr. (Mrs.) Sunita M. Mahajan**  
MSc (Physics), PhD (CS)  
Principal - MET ICS

# SHARP AT EVERY TURN

Take a walk through the wi-fi enabled MET Campus with the state-of-the-art facilities, and you'll realise what makes it a cut above the rest.



## Atrium

The atrium sets the tone for the smart, sharp look. The two larger than life steel shafts, a graphic representation of the left and right brain, pierce heavenwards from the atrium. A silent testimony to the might of the sharp mind.

## Computer labs

Fully loaded computer laboratories with the latest software and a host of peripherals.



## Classrooms

Brightly lit, spacious, air-conditioned classrooms, equipped with the latest audio-visual facilities.



## Conference rooms

Conference rooms all wired up with the latest acoustic, audio-visual facilities and learning aids, to encourage discussions and debates.



## Library

E-enabled library, bursting at the seams with books, magazines and periodicals on almost every subject.

# SHARP AT EVERY TURN

## Convention centre

The hi-tech convention centre, with a seating capacity of 800 people, is ideal for seminars and guest lectures.



## Recreation area

An air-conditioned recreation area helps sharp minds unwind. Play at the pool tables, table tennis tables and carrom boards. Stretch body and mind in the hushed confines of the yoga room.



## MWM

The MET World of Music (MWM) is equipped with touch-screen kiosks, headphones and a colossal archive of music. The only fully loaded digital music centre in any campus. The library allows students to experience musical bliss in a hi-tech environment.



## Faculty rooms

Guest rooms with five-star amenities play host to visiting faculty and dignitaries.

## Canteen

The colourful and friendly canteen has a delectable menu.



# CORE FACULTY



**Dr. (Mrs.) Sunita M. Mahajan**  
MSc (Physics), PhD (CS)  
**Principal**



**Ms. Shikha Malhotra**  
BSc, MCA  
Dip. in Marketing Management  
Diploma in German Language  
**Assistant Professor**



**Mr. Dinesh Vadera**  
BTech (EE)-IITB, MTech (ICC)-IITB  
**Assistant Professor**



**Ms. Harshali Patil**  
BSc (CS), MSc (CS)  
**Assistant Professor**



**Ms. Sanya Malhani**  
BSc (Maths), MCA  
**Lecturer**



**Ms. Shraddha Ail**  
BSc (Stats), BSc (Maths), MCA  
**Lecturer**



**Ms. Chetna Achar**  
BSc (M/S/CA), MCA  
**Lecturer**



**Ms. Flavia Gonsalves**  
BSc (Physics), MCA  
**Sr. Lecturer**



**Mr. Om Prakash Mandge**  
BSc (CS), MSc (CA)  
**Lecturer**

# VISITING FACULTY

**Mrs. Leena Pinto**

MA, MEd, MPhil  
Dip. in Counselling, P.G. Dip. in Educ. Management.

**Mr. Manoj Regee**

BA (Hons), MA (Sussex) Eco.

**Mr. Milind Chitale**

BSc, DMM (Materials Management), DBM

**Mrs. Sunanda Shouche**

MSc Statistics

**Dr. Sumedha Desai**

PhD (German & Linguistics)

**Prof. Girish Yadav**

BTech, MBA

**Mr. Patrick D' Souza**

BE, CFA, MMS, CS (Inter)

**Ms. Vandana Bhalla**

MTech (Elec.)

**Prof. L N Chopde**

MCom, DBM, MPhil

**Mrs. Seema Shah**

MTech

**Mrs. Jyotsna Bhide**

MA (German & Linguistics)

**Prof. Mohammad Hussain Navlur**

MA Economics

**Mr. K M Hussain**

MSc (Physics)

**Mrs. Sindhu Singh**

MCA

**Mr. Ketan Shah**

ME (Elect.)

**Mr. Atul Kahate**

BSc (Statistics), MBA (Systems)

**Ms. Sudha Sahastrabudde**

MCA

**Ms. Kanchan Shrotriya**

BSc (Electronics), MCM

**Prof. Ajit Kurvey**

BTech (Hons.)

**Prof. Shrinivas Dhure**

MSc Mathematics, NET qualified,  
ADCCSSAA

**Ms Prachi S Bapat**

BA (Japanese)

**Mr. Jayant Umale**

MTech (Comp.)

# GUEST LECTURERS

Name	Designation	Company	Topic
Dr. Rajeev Rastogi	Vice President	Yahoo! Labs	Internet Research: What's hot in Search, Advertising and Cloud Computing
Kalayana Chakravarthy	Delivery Manager	Oracle University	Oracle Business Intelligence – An Overview
Kanwal Mookhey	Principal Consultant	NII Consulting	Computer Forensics
Waman Jawadekar	Consultant	–	Thinking Impossible - Disturb your Mental Models
Dr. Walter Flucker	Visiting Professor & Scholar	Graduate Business School, Cape Town & Princeton & Columbia University	State sponsored religion and its role in sustainable development
Jeffrey Armstrong	Founder - VASA	Vedic Academy of Science & Arts	How we continually create our own destiny
Bruce Chassy	Executive Associate Director, Biotechnology Centre	University of Illinois, USA	Bio-Technology & future of food from Business point
Dr. M Bracale	President	Swiss School of Management	–
Mukul Asher	Professor	University of Singapore	Managing Globalisation: Implications for India
Nisha Sharma	Senior Consultant, Global Head SOA Worldwide	Tata Consultancy Services	e-Empowerment of Business Decisions
Dr. Baru Rao	CEO	Capgemini India	Corporate view about IT field
Dilip Tikle	Dean	Hexavarsity	Technologies in life, technologies for life
Glen Pinto	Sr. Systems Consultant	VMware	Virtualisation
Kashap Sompura	Director	Kash Infotech	Software Testing - A new Horizon in IT
B Rajagopal	Sr. Manager	Kale Consultancy	Service Oriented Architecture
Lina Pinto	Adjunct Faculty	University of Mumbai	Enhancing Emotional Intelligence
Jyotindra Zaveri	CEO	DNS e-Business Solutions	Implementation of ERP
P S Dhekne	Head Computer Division	BARC	Wireless Sensory Network
Sandeep Durve	SAP Consultant	SISL	Career in ERP
Vinayak Rao	ERP Consultant	V K Ware Technologies	Challenges in ERP

# GUEST LECTURERS

Name	Designation	Company	Topic
Leena Pinto	Adjunct Faculty	University of Mumbai	Motivational Skills
Nitin Patil	Faculty	MET IIT	Photoshop
Sameedha Padwal	Faculty	MET IIT	Flash
A G Apte	Head Networking & Communication	BARC	Multimedia Communications
K Rajesh	Group Leader Parallel Processing	BARC	Grid Computing
Sameer Saxena	IT Security Advisor	Systems Assurance Institute	Computer and Network Security
Dr. Jitendra Shah	Professor	C-DAC	Indian Language Computing for e-Governance & Education
Captain Raghu Raman	CEO	Mahindra SSG	Leadership @ 26000 Feet
Ashok Hingorani	Director	Computact Pvt. Ltd.	Teams with no boundaries - Collaboration using Groove
Vijay Mukhi	Internet Guru (MD)	Vijay Mukhi Computer Institutes	How Hackers Hack!!!
Achyut Godbole	Executive Director	Disha Technologies	World of Tomorrow
Ivan Bayross	Chairman & MD	Silicon Software	Open Source
Sunil Shah	Senior Software Consultant	IBM Rational Software	IBM's Programming Philosophy
Dhananjay Mahajan	System Manager	Microsoft (USA)	Prospects in Microsoft
Mahesh Zurale	COO	Datamatics	BPO Industry
Rajiv Vaishnav	Regional Director - Western Region	NASSCOM	India's Sustained Competitiveness in IT & ITES
Chirag Unadkat	CEO	WESRA	Trends in IT Industry
Rajeev N. Bala Subramanian	Solution Architect	IBM Software Group	Services Oriented Architecture, Model Driven Architecture & Web Services
Shailesh Mehta	Chairman	Gurukul Online Learning Solutions	e-Learning
Atul Gupta	Software Consultant	-	Introduction to RFID & Uses in Industry

# YOUNG ACHIEVERS

## **MET ICS @ THE TOP!**

### **TARASH 2009 @ Late Bhausahab Hiray Smarnika Samiti Trusts (MCA)**

Our students showed their talent and won prizes in various events. Ms. Pradnya Ahire won first prize in Sudoku. Ms. Kiran Kamble won first prize in carom. Mr. Naresh Konga won second prize in Junk Yard and Mr. Prashant Soni won third prize in Web Designing. All this led MET to be awarded the rotating ETERNIA Trophy at the event.

### **Xccelerations 2009 @ YMT Institute of Management & Technology**

At YMT College, our METizens excelled in various events. Accelerating minds with technology, our students Mr. Kiran Chavan and Mr. Prashant Soni won first prize in Quiz, Mr. Kiran Chavan also won first prize in Console Gaming and second prize in Chess.

### **SPARC 2009 @ Vivekanand's Education Society**

At the SPARC, it was again the METizens who showed their technical prowess. Mr. Manish Suvasiya, Mr. Pratik Ghodekar, Mr. Naresh Konga and Mr. Prashant Soni won second prize in Advertising. Mr. Prashant Soni received third prize in Software Presentation.

### **Manthan 2009 @ Bharati Vidyapeeth's Institute of Management and Information Technology**

MET ICS students shone brightly at BVIMIT's annual event Manthan. Mr. Prashant Soni won second prize in Database Designing and Mr. Nikit Dhumal won first prize in Manthan Quiz.

### **Tech Tornado 2008 @ SNTD Women's University**

At the Tech Tornado, Mr. Pratik Ghodekar won first prize in Web Designing.

### **Vista 2008 @ Thakur Institute of Management Studies, Career Development & Research.**

At Vista 2008, Mr. Pratik Ghodekar won second prize in Coding and Debugging.

Sushant Poojary, 3rd year MCA student from MET Institute of Computer Science was felicitated at a dazzling Technical Session at a 7 star hotel in Mumbai. His contribution towards designing, deployment and maintenance of the SPWLA India chapter website for the past two years was publicly acknowledged and appreciated at this event. The site was unveiled at an international symposium earlier this year. The user friendly nature of the site has made it popular amongst members and non members of the SPWLA.

# REGULAR RECRUITERS

Abacus Software Pvt. Ltd.  
Apnaloan.com Services Pvt. Ltd.  
A. G. Technologies Pvt. Ltd.  
Accenture  
Alarcrity Tech.Pvt. Ltd.  
Alphabetics Computer Services Pvt. Ltd.  
Ameya Infovision Pvt. Ltd.  
Base Information Management Pvt. Ltd.  
Bristlecone India Ltd.  
Chakra Interactive Pvt. Ltd.  
CMC Limited  
Cunix Infotech Pvt. Ltd.  
Databyte Solutions  
Datamatics Technologies Ltd.  
Directorate of Technical Education  
Fairdeal Software Consultants Pvt. Ltd.  
Geodesic Information Systems Pvt. Ltd.  
Hexaware Tech  
Homi Bhaba Centre of Science Education

i-Flex Solutions Ltd.  
Infobahn Pvt. Ltd.  
Jump Games Kaizen Innovative Pvt. Ltd.  
Kale Consultants Ltd.  
Larsen & Toubro Infotech Ltd.  
Lauren Information Technology Pvt. Ltd.  
Learning Mate  
Maestros Mediline Pvt. Ltd.  
Magnet - I  
Mahindra & Mahindra  
Mega E Services Pvt. Ltd.  
Monarch Vision  
Mphasis Software & Services Pvt. Ltd.  
Nelito Systems Ltd.  
Net4UOnline  
NSE IT Ltd.  
Oregono Tech  
Pacenet Systems Pvt. Ltd.  
Patni Computer Systems Ltd.

Praxis Interactive Tech. Pvt. Ltd.  
Prism Information Tech. Ltd.  
Quinnox Consultancy Services Ltd.  
RouteSms Pvt. Ltd.  
Rolta India  
Shawman Software  
S2 Infotech  
Saba Software India Pvt. Ltd.  
Sama Tech. Pvt. Ltd.  
Siemens Information Systems Ltd.  
Softcell Tech. Ltd.  
Syntel Limited  
Tata Consultancy Services  
Verchaska Infotech Pvt. Ltd.  
Wipro Infotech  
Xoriant  
Zensar Technologies Ltd.  
Zeus Learning

# MCA COURSE ELIGIBILITY/DURATION

**Eligibility:** Graduate from a recognised university with Mathematics or Statistics as one of the subjects at 10 + 2 level or at graduation and minimum of 45% aggregate marks for open category and 40% for reserved category. Students who have appeared for their final year graduate examination may also apply for CET. However their eligibility is decided after the production of their degree result with required marks on or before 30th September of current year.

**Duration:** 3 years (6 Semesters)

**Entrance Examination:** The students have to appear for the state level common entrance examination (CET) conducted by Directorate of Technical Education, Mumbai. The Management Association of Management Institutes (MAMI) also conducts a CET. The applicants have to submit CET scores.



# COURSE CONTENT

## Semester I

### Theory

- ▶ Programming with C
- ▶ System Analysis Design and Implementation
- ▶ Computer Organisation and Architecture
- ▶ Discrete Mathematics
- ▶ Principles of Economics and Management
- ▶ Introduction to Web Technology

### Practicals

- ▶ Lab1 C Programming
- ▶ Lab 2 Web Technology

## Semester II

### Theory

- ▶ Data Structures
- ▶ Operating System
- ▶ Financial Management
- ▶ Computer Graphics
- ▶ Probability and Statistics
- ▶ Communication and Soft Skills

### Practicals

- ▶ Lab1 DS
- ▶ Lab 2 OS
- ▶ Lab 3 CG

## Semester III

### Theory

- ▶ Object Oriented Programming with C ++

- ▶ Database Management Systems
- ▶ Data Communications Networks
- ▶ Operation Research
- ▶ Software Engineering
- ▶ Management Information System

### Practicals

- ▶ Lab 1 C++
- ▶ Lab 2 DBMS
- ▶ Lab 3 DCN

## Semester IV

### Theory

- ▶ Java Programming
- ▶ Object Oriented Modeling and Design
- ▶ Using UML
- ▶ Network Security
- ▶ Advance Database Techniques
- ▶ Elective 1
- ▶ Software Project Management

### Practicals

- ▶ Lab 1 Java
- ▶ Lab 2 OOMD
- ▶ Lab 3 ADT

## Semester V

### Theory

- ▶ Multimedia
- ▶ Wireless Technology

- ▶ Distributed Computing
- ▶ Advanced Web Technologies
- ▶ Elective 2
- ▶ Foreign Language

### Practicals

- ▶ Lab 1 Wireless Technology
- ▶ Lab 2 Advanced Web Technology

## Semester VI

### Industry Project

### Elective I

- ▶ e-Business
- ▶ Embedded Systems
- ▶ Geographic Information System
- ▶ Customer Relationship Management
- ▶ Artificial Intelligence

### Elective 2

- ▶ Supply Chain Management
- ▶ Enterprise Resource Planning
- ▶ IT Laws and Patents
- ▶ Knowledge Management
- ▶ e-Commerce

(\*Any one out of German, French, Spanish, Chinese, Japanese)