

# MS PROGRAM IN ADVANCED INFORMATION TECHNOLOGY

with Specialization in  
**COMPUTATIONAL FLUID DYNAMICS**  
(An Accredited Post Graduate Program by Moscow State University, Russia)

INTERNATIONAL INSTITUTE OF  
INFORMATION TECHNOLOGY

I<sup>2</sup>IT

ज्ञानं सविज्ञानम्

PROSPECTUS 2005-2006



Moscow State University,  
Russia

**РИЦКИ**  
**RICCR**

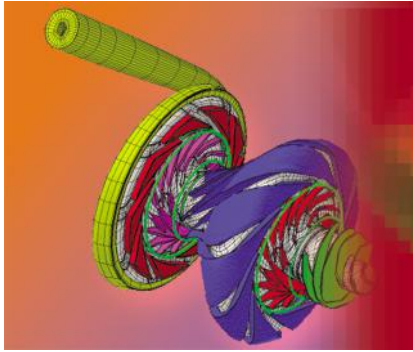
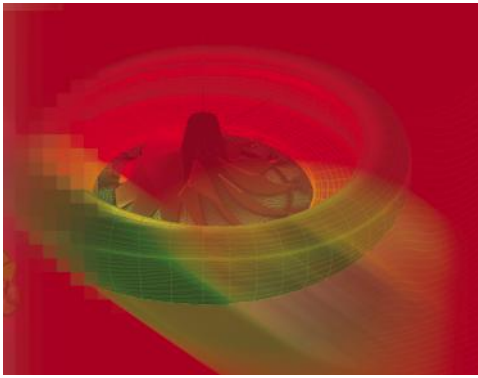
RUSSIAN-INDIAN CENTRE  
FOR  
ADVANCED COMPUTING RESEARCH



INTERNATIONAL INSTITUTE  
OF  
INFORMATION TECHNOLOGY

IIT, Pune





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# INTRODUCTION

## ABOUT I<sup>2</sup>IT, PUNE, INDIA

International Institute of Information Technology (I<sup>2</sup>IT), is situated in the sprawling Rajiv Gandhi Infotech & Biotech Park of Hinjawadi in the knowledge city of Pune. I<sup>2</sup>IT is located amidst leading Indian and International IT and BT companies such as Infosys, Wipro, Tata Technologies, Cognizant and Geometric. I<sup>2</sup>IT has been acclaimed as one of the top IT schools of India and has emerged as the largest graduate school in the area of Advanced Information Technology.

I<sup>2</sup>IT endeavours to produce principle-focused IT researchers and leaders by providing an advanced education and research environment that promotes advanced learning of excellence, development of self-confidence and personality, inspired team-based goal achievement, social and environmental awareness and sensitization that will help students exploit their potential to the maximum.

## ABOUT RICCR, MOSCOW, RUSSIA

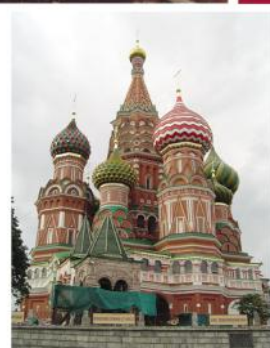
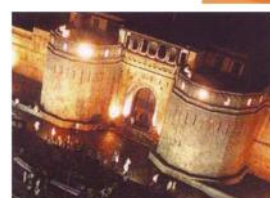
The Russian-Indian Centre for Advanced Computing Research (RICCR), Moscow has been promoted by the Institute of Computer Aided Design (ICAD) of the Russian Academy of Sciences and the Centre for Development of Advanced Computing (C-DAC) India. RICCR, Moscow aims to promote Russian and Indian scientific products and technologies to the global market and to third world countries. The Centre is engaged in the development of supercomputing applications in science and engineering.

## ABOUT I<sup>2</sup>IT MOSCOW

To promote bilateral co-operation between India and Russia, I<sup>2</sup>IT, Pune has set up I<sup>2</sup>IT Moscow in the Russian-Indian Centre for Advanced Computing Research (RICCR) campus.

I<sup>2</sup>IT Moscow will offer advanced education and research in the fields of Information Technology and Management. RICCR will provide expertise in Computational Fluid Dynamics, Nano-Technology. Research programs for Masters and Doctoral degrees will be funded by **Moscow State University**.

The Institute aims to promote scientific research and development in hydrodynamics, weather forecasting, structural mechanics, advanced materials, nano-technologies, bio-informatics, biotechnologies, artificial intelligence, environmental sciences and technologies. The Institute will organize seminars, conferences and conduct joint projects in Russia and India.



### I<sup>2</sup>IT VISION

To create a launch platform to propel India to a new high in an ever-expanding IT space driven by innovation and leadership.

### I<sup>2</sup>IT MISSION

To be one of the world's esteemed institutes for advanced education and research in IT & Management.

### I<sup>2</sup>IT CHARTER

- Carry out education and training in IT and IT Management at a post-graduate level, with graduates drawn from different disciplines and prepare them as innovators and leaders of the IT industry.
- Actively pursue advanced research in IT, develop innovative products, technologies and services.
- Create web-based education in advanced information technology.

# THE PROGRAM & DURATION

I<sup>2</sup>IT in academic collaboration with RICCR, Moscow and Moscow State University (MSU) is introducing a MS Program in Advanced Information Technology with specialization in Computational Fluid Dynamics (CFD)

This is a 4-semester, 60 credits, 18-month Post Graduate MS Program which equips students to accept responsibilities in the following areas of IT and CFD :

- **Mathematical modeling and simulation**
- **Numerical methods in fluid dynamics**
- **Parallel and high performance computing**
- **Software design development and engineering**
- **Data management and data mining**
- **Advanced fluid dynamics**
- **Hydro dynamics**
- **Aero-acoustics**
- **Heat and mass transfer**
- **Multiphase flow**
- **Combustion and reaction flow**

Faculty from India and Moscow and experts from industry, currently working in the area of CFD will jointly conduct the course.

## PROGRAM DURATION

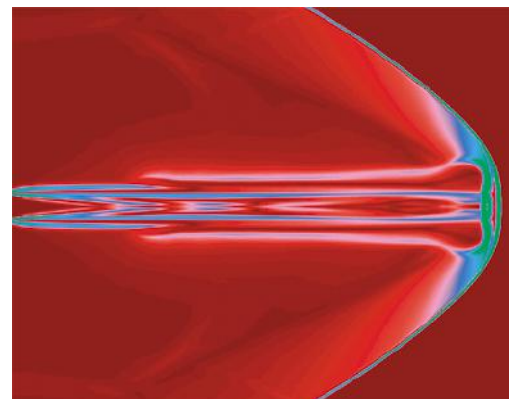
Semester	Duration	Centre for Indian Students
I	4 months	I <sup>2</sup> IT, India
II	4 months	I <sup>2</sup> IT, Moscow
III	4 months	I <sup>2</sup> IT, India
IV	6 months	I <sup>2</sup> IT, India

# COMPUTATIONAL FLUID DYNAMICS

Computational Fluid Dynamics (CFD), is a revolutionary modern form of computational technology that numerically simulates fluid flow over virtual geometry. Until recently, CFD has only been effectively utilized within the aerospace and automotive industries because of high software costs and powerful computational requirements. With the development of PCs that have high speed processing capability, it is now possible to run the majority of CFD models on a desktop.

CFD enables engineers to predict fluid flow, heat and mass transfer, chemical reactions (explosions) and related phenomena. It is used in almost all industrial sectors – food processing, water treatment, marine engineering, automotive, aerodynamics and gas turbine design. CFD has become an integral part of the engineering design and analysis environment of many companies because of its ability to predict the performance of new designs or processes before they are manufactured or implemented. The use of CFD software can result in less iteration to the final design, shorter lead times and fewer high-cost prototypes to produce. CFD also encourages innovation because it is a cost-effective means for testing novel designs that would otherwise be too expensive and risky to investigate.

Not only is CFD a cost-effective method for numerical simulation, it also creates a visual perspective (colour images) of the flow of a naturally indistinguishable (i.e. invisible) fluid. By creating either a 2-D or 3-D model of the object (virtual prototype) on a PC, CFD analysis can enable the object to be transported straight through to the prototype stage with speed and efficiency, without lengthy testing costs, experimentation and development time. This results in better designs, lower risk and faster time to market for products or processes.



# AIMS OF THE PROGRAM

- To produce high quality graduates for national and international needs with specialized training in information technology and fluid dynamics, who will be suitable for employment in aerospace, mechanical, civil, chemical, water engineering and IT industries.
- To produce graduate mathematicians and engineers, with appropriate training in various aspects of theoretical, computational and industrial fluid dynamics as well as personal and IT skills that enable them to use their expertise more effectively in industries where fluid dynamics is important.
- To introduce students from an engineering, mathematics or a physical sciences discipline to modern developments in fluid dynamics and to give them a good background in theoretical and industrial fluid dynamics, highlighting the importance of information technology and engineering for the same.

**On successful completion of the course, the students will**

- Be familiar with a range of subjects that encompass incompressible and compressible fluid flow, laminar and turbulent boundary layers, turbulence modeling, wave mechanics including acoustics and shallow water flows, environmental and geophysical flows and computational fluid dynamics.
- Be familiar with the use of asymptotic methods in fluid dynamics.
- Have learnt a variety of computational techniques involving code writing as well as using packages that solve fluid dynamics problems.
- Have learnt experimental techniques and methodologies and be able to perform experiments.
- Gain exposure to programming languages, IT packages, software engineering methodologies, software development techniques and training in personal skills.
- Be introduced to the supercomputer based on parallel processing architectures and will be able to develop parallel computing software.



## PROGRAM PEDAGOGY

All courses are designed to address the key areas like theoretical foundation, practical relevance with the 'real-life' problem solving approach. To achieve that the courses will be delivered using collaborative learning process through class room lectures, laboratory sessions, assignments, student seminars, lectures by industry experts, case studies, relevant industry visits and research / industry projects.





# PROGRAM STRUCTURE AND CURRICULUM

- The entire curriculum is distributed over five levels and aims to help students transcend their level of understanding to the corporate world. The curriculum is distributed in four levels, viz. Bridge, Foundation, Core and Advanced (with a Project).
- To bridge the gap between theory and practice, students will undertake Project work worth 10 Credits in the last trimester.
- Students have to carry out one small project in the specified trimester to consolidate technical knowledge in the selected specialization stream.
- For successful completion of the Program, students need to take courses worth a Total of 60 Credits.
- The training program consists of a number of conventional lecture course modules, laboratory based modules (for experimental work), modules with a significant project element (for computational work) and a substantial industrial research project.

## CURRICULUM

### SEMESTER : I

TOTAL CREDITS : 14

Course	Type	Semester	Credit rating
Computer Architecture And Operating System	Bridge	I	Nil
Data Structure And Algorithm	Bridge	I	Nil
C Language/Fortran	Bridge	I	Nil
Applied Mathematics	Bridge	I	Nil
Advanced Mathematics	Foundation	I	1
Mathematical Modeling & Simulation	Foundation	I	2
Basic Fluid Mechanics	Foundation	I	2
Computational Mechanics And Numerical Mathematics	Foundation	I	2
Introduction to CFD	Foundation	I	2
Programing Environment in Parallel Computing	Foundation	I	2
C++ Programing	Foundation	I	3
Russian Language	Compulsory	I	Nil

- **AST 001 : Computer Architecture and Operating Systems**  
This course covers operating system design concepts with examples from Linux and Windows operating systems. It also focuses on the study of the hardware structure of computer systems and sub-systems. The topics in computer architecture include: Processor architecture, Parallelism and pipelining Cache and memory organization, I/O controllers and interconnection structures. The topics in operating system include: Operating system structures process and thread management, memory management virtual memory, file system I/O subsystem and device management communication protection and security.
- **AST 003 : Data Structures and Algorithms**  
This course focuses on the different data structures and their applications in computer programming. The data structures covered here are array, stack, queue, linked lists, binary tree and various sorting and searching algorithms.
- **AST 004 : C language**  
An in depth course on the C Programing language for programers who are going to write both application and system programs. Some prior knowledge of a high level language (eg, Pascal, Basic,



Fortran) is a pre-requisite. In addition to covering basic syntax and semantics, the course emphasizes on problem solving methodology and modular programming techniques. The module focuses on imparting a working knowledge of the C programming language (using ANSI standard C and libraries). Have basic knowledge of common techniques such as linked lists, queues, etc. Understand basic mathematical techniques related to computing (error estimates, resource estimates, etc.).

- **CFD 001 : Applied Mathematics**

Students who have not specialized in Mathematics will be given the set formulae and basic structures of mathematical history. The bridge course in mathematics aims at revising the basics of matrix algebra, differential equations, three dimensional system of coordinates, vector algebra and numerical methods of solving differential equations.

- **CFD 002 : Advanced Mathematics**

Advanced course in mathematics will prepare the students in vector calculus, Fourier series, partial differential equations with boundary values, Fourier transforms, complex functions with applications to fluid flow, numerical analysis with finite difference methods to solve partial differential equations, matrix method of solving differential equations using Eigen values and Eigen vectors and basics of stochastic process.

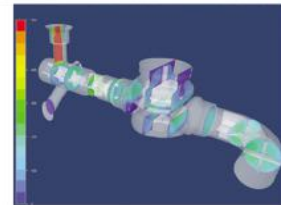
- **CFD 004 : Mathematical Modeling and Simulation**

The course on mathematical modeling and simulation will enable the students to develop models to represent deterministic and probabilistic systems using the mathematical tools they have studied. Students will be asked to develop models to represent simple engineering systems, including fluid flow. Examples of modeling in different areas like biology, diffusion process, fluid flow; population studies and combat warfare will be discussed to help students use mathematical modeling. Monte Carlo simulation will be discussed for problems.



- **CFD 005 : Basic Fluid Mechanics**

In this unit the students will be introduced to the basic concepts of fluid flow. The governing equations for incompressible/compressible fluids will be delivered and studied for a range of applications, elementary viscous flow, including Couette flow, boundary layers and tube flows; transition Reynolds number and concepts of turbulence; skin friction and pressure drop calculations. The latter half of the course will concentrate on the analysis of subsonic and supersonic flow past aerofoil, wings and related bodies.



- **CFD 006 : Computational Mechanics and Numerical Mathematics**

This course is designed to teach students the underlying concepts of numerical solution techniques and specific methodologies for solving fundamental problems via computer algorithms. The course objective is to teach students the basic analysis techniques used to discretize continuous systems, as well as common methods to solve the resulting equations. The course is designed to familiarize students with the cornerstones of modern computer-based analyses, such as matrix equation solution techniques, least-squares fitting, numerical integration, finite difference and minimization approaches. An important objective and central theme of this course is to develop programming skills that will be drawn upon in other parts of the curriculum.

- **CFD 007 : Introduction to CFD**

Here, students will be introduced to a range of computational techniques, finite difference methods, stability analysis, iterative methods, modern acceleration techniques. In the second part of the course these ideas will be developed further with an introduction to commercial packages, incompressible flow solvers, finite volume methods. The students will do a series of projects and assessment will be based on the project report.

- **CFD 008 : Programming Environment in Parallel Computing**

The course lays stress on the use of parallel machines by applications of substantive size, covered application domains including scientific and engineering computation, real-time systems, graphics, and parallel optimization. Operating systems and programming support for parallel computation will be covered in this course.

# CURRICULUM

- **CFD 009 : C++ Programing**

This course introduces C++ as a general purpose computer language, leveraging the students' experience with C, C++, Java, or other computer languages. The focus is on software engineering principles in programing, data abstraction, object oriented concepts and understanding the purpose and intended application of language features. Topics include the application of abstraction and encapsulation using C++; interface design and implementation of independent object classes and user-defined types; the role of constructors, destructors, function, and operator overloading; I/O Streams facility and basic memory management programing techniques; the design and implementation of advanced container classes and class hierarchies.

- **COM 001 : Russian Language**

The course aims to consolidate knowledge of the Russian language and to extend the students' active and passive vocabulary, improve fluency, pronunciation, accuracy and comprehension skills. The course aims to increase the students' awareness of cultural information and social conventions in countries where the target language is spoken. This course is compulsory for all students.

## SEMESTER : II

### TOTAL CREDITS : 21

Course	Type	Semester	Credit rating
Finite Difference Methods for Gas Dynamics	Core	II	2
Advanced Computational Fluid Dynamics	Core	II	4
Rational Programing for Mathematical Modeling	Core	II	2
Mathematical Modeling for Non-linear Processes	Core	II	3
Geometrical Modeling and Mesh Generation	Advanced	II	2
Convection, Hydrodynamic Instability and Turbulence in Nature	Advanced	II	2
Computational Aero-acoustics	Advanced	II	2
Economical Numerical Methods in CFD Problems	Advanced	II	2
High Accuracy and arbitrary Order Methods for Fluid Dynamics	Advanced	II	2
Russian Language	Compulsory	II	Nil

- **CFD 601 : Finite Difference Methods for Gas Dynamics**

This course will cover Eulers equations and conservation laws, Exact solutions on Linear advection equation, Cauchy problem, Riemann problem, Vanishing viscosity solutions, Numerical solutions for smooth data, Finite difference and finite volume, geometric flux interpretation and conservative schemes, Discontinuous data, Nonlinear, scalar equations, Exact behaviour, Entropy conditions, Godunov's method, Non-linear stability analysis, etc.

- **CFD 602 : Advanced Computational Fluid Dynamics**

This course will emphasize on topics such as 3-D Euler equations, 3-D boundary layer theory; Navier-Stokes equations, model of thin viscous shock layer (TVSL), simplified parabolic Navier-Stokes equations, viscous shock layer, thin layer numerical simulation, numerical simulation, finite-difference methods, finite-volume methods, finite-element methods, Galerkins approaches, Fourier transform, etc. Computational algorithms based on numerical methods, surface and grid generation methods, curvilinear grid points, Partial differential equation, Rectangular Cartesian grid, Search algorithms, data structures and refinement techniques will also be covered in this course.

- **CFD 603 : Rational Programing for Mathematical Modeling**

This course will emphasize the advantages of rational programing for coding mathematical models, increasing accuracy methods, methods to speed up modeling code, rational memory using memory/speed criteria optimization, effectiveness and accuracy estimation for numerical methods, character



problem features for increasing performance of computations, parallel computing in mathematical modeling, parallel code speedup estimation, data exchange optimization.

- **CFD 604 : Mathematical Modeling for Non-Linear Processes**

This course will lay emphasis on conservative lower and equations for incompressible fluid in primitive variables and vorticity stream function formulations, conservative form of the equations, boundary conditions, one-dimensional transfer equation, finite-difference scheme, etc. Direct and iteration methods for finite-volume type, generalizing methods for flows with free surface, non-homogeneous fluid flows will also be discussed.

- **CFD 701 : Geometrical Modeling and Mesh Generation**

This course will emphasize numerical simulations and computational grids, curvilinear grids, Winslow method, Godunov method, Structured and unstructured grids, spatial mappings and computational grids, Delaunay empty ball theorem and modern unstructured grid generation methods, construction of hybrid grid, basics of surface grid generation, surface flattening techniques, relations between curvature and manifolds parameterization, cone condition, isothermic, Chebyshev and quasi-isometric coordinates in MBC, adaptive meshing in numerical simulation, etc.

- **CFD 702 : Convection, Hydrodynamics Instabilities and Turbulence in the Nature**

Here, the emphasis will be on hydrodynamic equations (Euler and Navier-Stokes equations), nature of viscosity, compressible fluid, equilibrium state, thermodynamics of fluid, shock waves, convection, convective criterion, convective heat transfer, hydrodynamic instabilities, turbulence, stochastic description of the turbulence, direct numerical simulation of turbulence, role of large-scale structures in turbulence development for free shear fluid, combustion, slow combustion, instability of flames, etc.

- **CFD 703 : Computational Aero-acoustics**

This course will focus on acoustic wave propagation and noise generation, CFD models for compressible gases, and simulation of mean fields for turbulent flows, flow simulation within the LES (Large Eddy Simulation) approach, mathematical models in CAA, deterministic stochastic approach to simulation of noise generation phenomenon for turbulent flows, methods for acoustic signal processing, unified models and high accuracy algorithms, numerical algorithm, finite-difference and finite-volume approaches for Cartesian and arbitrary unstructured meshes, etc.

- **CFD 704 : Efficient Numerical Methods in CFD Problems**

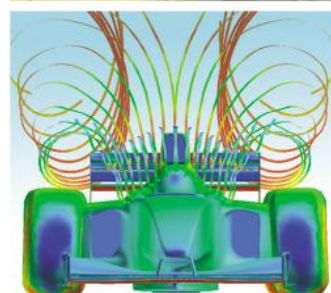
This course will emphasize on the basics in physics, Navier-Stokes mathematical model and its properties, functional spaces and inequalities, linear problems, non-linear non-stationary problems, different coordinates systems, 2D and 3D grid generation, approximating differential operators on the arbitrary grids, properties of these approximations, applying Tikhonov's method to 2D and 3D problems, etc.

- **CFD 705 : High Accuracy and Arbitrary Order Methods for Fluid Dynamics**

This course will give an overview of finite difference methods, approximation, stability, spectral properties, high order schemes applications in engineering and scientific problems, 3D and 5<sup>th</sup> order compact upwind differencing schemes with high resolution of fine details of solutions, finite-volume schemes based on compact approximations, application to the Euler and the Navier-Stokes equations, stability problems and direct numerical simulations, compressible CFD problems, cascade flows airfoils and wings, vortex wakes behind aircraft, problems with complicated geometries, domain decomposition with hybrid schemes combining compact ones and mesh less methods.

- **COM 002 : Russian Language - Level II**

The level-II Russian language course will be delivered at Moscow and aims to improve fluency, pronunciation, accuracy and comprehension skills. The course aims to revise and extend high frequency language of personal relevance and to introduce students to informal and formal styles. This course is compulsory for all students.



## SEMESTER : III

### TOTAL CREDITS : 15

Course	Type	Semester	Credit rating
Object Oriented Analysis and Design using Java	Core	III	3
Software Engineering And Project Management	Core	III	3
Software Testing and Analysis	Advanced	III	3
Advanced Heat and Mass Transfer	Advanced	III	2
Multiphase Flow	Advanced	III	2
Combustion and reacting flow	Advanced	III	2

- **AST 602 : Object Oriented Analysis And Design Using Java**

This course focuses on the major techniques of the Java Language, object-oriented analysis and design notation and how these techniques can be applied to improve quality of productivity during the analysis and design of application. The topics covered include object models, analyzing system requirements, modeling concepts provided by UML, analysis and documentation of software designs using the unified process, identification of use cases, behavioral designs, design patterns to refine analysis and design models, implementation, testable and adaptable designs.

- **AST 603 : Software Engineering and Software Project Management**

This course provides a comprehensive analysis of software engineering techniques and shows how they can be applied in practical software projects, all with an object-oriented approach. This course extensively covers software processes technology, system integration, requirement management, software project management, verification and validation, risk analysis, pattern based reuse, dependable systems development, distributed system engineering and legacy systems.

- **AST 702 : Software Testing and Analysis**

This course will focus on software testing at the module, subsystem and system levels; quality assurance techniques including inspections, version control, and configuration management. The course will attempt to prepare students to test software in a structured, organized way. It will provide practical knowledge of a variety of ways to test software, an understanding of some of the tradeoffs between testing techniques, and a feel for the practice of software testing using testing tools and the research in software testing.

- **CFD 706 : Advanced Heat and Mass Transfer**

This course covers the topics such as diffusion kinetics, conservation laws, heat conduction, laminar and turbulent convection, mass transfer including phase change or heterogeneous reactions, and basic thermal radiation. Problems and examples will include theory and applications drawn from a spectrum of engineering design and manufacturing problems. One-dimensional steady and unsteady heat conduction, fins, elementary laminar and turbulent convection, natural convection and condensation, heat exchangers, simple blackbody and gray body radiation.

- **CFD 707 : Multiphase Flow**

This course will provide the fundamentals of aerosol transport, deposition and removal in turbulent flows, computational modeling of dilute two-phase flows, industrial applications of dilute multiphase flows, and modern experimental techniques in aerosol transport analysis and industrial applications of aerosols.

- **CFD 708 : Combustion and Reacting Flow**

This course will provide knowledge on formulation for ignition and laminar premixed flame propagation representing a fundamental phenomenon of combustion, and its analytical treatment, application of analytical method to other combustion phenomena, explanation of statistical values for turbulent flow and non-dimensional numbers including time and length scales of flames, description of the transition of flame structure and modeling of turbulent combustion, combustion and thermo chemistry, mass transfer, chemical kinetics, simplified conservation equations for reacting flows, introduction to turbulent flows, turbulent premixed flames, turbulent non-premixed flames, etc.

## SEMESTER : IV

### TOTAL CREDITS : 10

#### Project Specialization

- |              |                       |                 |
|--------------|-----------------------|-----------------|
| ● Aerospace  | ● Automotive          | ● Environmental |
| ● Biomedical | ● Weather Forecasting | ● Thermal CFD   |

#### ● CFD 901 : PROJECT

Students can undertake an industry-sponsored project or a research-based project leading to Master's level competency. For industry-sponsored projects, the Career Management Center facilitates interaction between students and the industry. Students are encouraged to work on projects, which will enhance their understanding in certain technology domains within a real-life scenario. The research project includes researching on the given/chosen seminar topic, which will generally be state-of-the-art in the field and then delivering the seminar to peers and faculty along with its documentation in the prescribed IEEE format. Following the seminar, the student has to undertake a research project under the guidance of tenure track/visiting faculty/and industry experts. The research project has to be submitted in the form of a dissertation, which will be examined by experts nominated by the institute. The research project is the culmination of the student's learning in the institute and is expected to be of high standards as demanded by the industry.

# CULUM





# ELIGIBILITY CRITERIA & SELECTION PROCESS

## ELIGIBILITY CRITERIA

Students need to be graduates, with degrees in either of the following:

B.E./B.Tech/ M.Tech./MS (in Mechanical / Aerospace / Instrumentation / Electrical / Electronics / Civil / Chemical / Computer Science) / M.Sc. ( Physics / Mathematics / Chemistry) or its equivalent and have scored minimum 60% marks at graduation/post graduation level. All applicants must have knowledge of 'C' programming, either in the form of additional certification or a short-term course. Candidates must be prepared to demonstrate proficiency in 'C' language.

There are two eligibility streams for candidates:

1. Candidates with valid scores in the 'Accepted Qualifying Examinations'
2. Candidates without any 'Accepted Qualifying Examinations' valid scores
  - Candidates with valid scores in any of the recognized tests mentioned in the 'Accepted Qualifying Examinations' section of this prospectus will be eligible to apply for admission and will be exempt from the entrance tests.
  - Foreign nationals will, in addition to a valid GRE score, need an English certification score of TOEFL/TOEIC, IELTS or an equivalent examination, to qualify for exemption from entrance tests.
  - Candidates without valid scores will need to take the entrance examination. See section on 'Entrance Test' for details of the test.

## APPLICATION PROCESS

The application process may be completed in any ONE of two ways:

- Ordering the Application Pack by sending a DD to the institute.
- Downloading and Applying

### 1. Ordering the Application Pack by sending a DD to the institute.

- Candidates need to send a crossed Demand Draft of Rs. 1000 (for Indian nationals), drawn in favour of '**International Institute of Information Technology**', payable at Pune, India, or a TT of US \$100 for foreign nationals, towards a non-refundable registration fee. All payments need to be addressed to : The Student Services Cell. International Institute of Information Technology, P-14, Rajiv Gandhi Infotech Park, Hinjawadi, Pune - 411057. Tel: +91-20-22933441 Fax: +91-20-22934592 Mobile : 098226-17898 / 098226-17899
- The applicant should write his/her name, address for correspondence, telephone number (if any) with STD/ISD code and E-mail ID on the reverse of the demand draft.
- The candidate will receive the application form, the brochure and the acknowledgement of the DD by courier.
- Candidates are required to send the application forms, duly filled in, so as to reach the Admissions Cell before the last date of submission of the application form.
- Applicants with valid scores in the recognized

examinations mentioned in the 'Accepted Qualifying Examinations' section will be exempt from the entrance test.

- Applicants without valid examination scores will need to take the entrance tests. See section on 'Entrance Test' for details of the test.

### 2. Downloading and Applying

- The application form along with the prospectus is available on the web site [www.isquareit.ac.in](http://www.isquareit.ac.in)
- Candidates will need to download the application form, fill it, and send it along with a DD of Rs. 1000/- for Indian nationals, and a TT of US \$ 100 for foreign nationals in favour of '**International Institute of Information Technology**' payable at Pune.

## SELECTION PROCESS

The selection of an applicant for the course is based on the following:

1. Scrutiny of the application form
2. Scores received at the basic qualifying exams.
3. Scores received at the 'Accepted Qualifying Examinations' like GRE / GMAT, etc or Performance in the entrance test for candidates without 'Accepted Qualifying Examination' scores.
4. Personal interview

### Note :

- All the scores receive weightage in ranking.
- Applicants who already possess a valid score have the option of writing the I<sup>2</sup>IT General Aptitude Test, if they desire to improve their ranking. In such an eventuality best of the two scores would be considered for ranking.

### 1. Scrutiny of the Application Form

Application forms shall be scrutinized for academic profile in line with the eligibility criteria.

### 2. Scores received at the Basic Qualifying Exams

The scores received at the Basic Qualifying Exams are considered for arriving at the National Merit List.

### 3. Entrance Test

The Entrance Test is only for applicants who do not hold any valid acceptable scores in any national / international tests mentioned above.

- The test is administered online at our Pune Campus only.
- For Test dates please refer to the website.

### About the Test

- The test will have four sections viz., Verbal (English), Arithmetic, Analytical & Quantitative Abilities. In addition to the General Aptitude test candidates have to take a separate test to demonstrate their proficiency in C.
- The duration of the General Aptitude test is 60 minutes and shall be of 60 marks. The duration of the C test will be of 60 minutes and the test shall be of 50 marks.
- There is no negative marking.
- Sample question papers for General Aptitude test and C test are available on the website of the institute for evaluation by the candidate.

#### 4. Interviews

- Candidates who do not have a Valid Score will have to go through a personal interview only after writing the tests. Candidates who have a Valid Score will have to appear in C test and then personal interview.
- Based on the test / Accepted Qualifying Examination scores, basic qualifying examination scores and the interview, a national merit list will be prepared. Selected candidates will be informed individually.
- Selected candidates must be prepared to take admission by sending a DD worth Rs. 50,000 (Rupees Fifty thousand only) in favour of the '**International Institute of Information Technology**' payable at Pune, India as advance fees towards admissions.

## FEE STRUCTURE

### TOTAL FEES FOR THE ENTIRE COURSE

3 Trimesters in India and one trimester in Moscow Rs. 5,00,000

#### Includes

Tuition Fees in India & Moscow

Mess charges in India

Hostel room in double occupancy in India and also at Moscow

Hostel deposit (refundable) Rs. 7,500

Lab deposit (refundable) Rs. 5,000

One Laptop

#### Excludes

VISA Processing charges and to and fro air fare from India to Moscow

### TERMS OF FEE PAYMENT

- Fees listed are for the standard course duration and will have to be paid on a prorata basis depending on the duration of the course beyond the standard duration.
- All fees once paid are non-refundable. Any request for refunds will be processed under the standard refund policy of the institute listed elsewhere.

NOTE : Loan assistance is available through various financial institutions.

### TERMS OF ADMISSION

- Hostel rooms will be non-airconditioned double occupancy
- Food served will be only as per Indian menu. In case of special menu (viz., Indonesian, Chinese, Korean, etc.), an additional amount will have to be paid by the student as per the prevalent rates.
- Cafeteria and certain services associated with the hostel will not be available during the long holidays of Diwali (the Indian Festival of Lights). The administration will assist the student in making alternative boarding arrangements.
- All payments are to be made in advance by way of demand draft drawn on any nationalized bank in favour of the '**International Institute of Information Technology**' and payable at Pune.
- The institute reserves the right to change / modify / increase the fees without prior notice and assigning any reasons, based on prevailing conditions.
- In case of any ambiguity the decision of the Director shall be final.

### REFUND RULES

Written requests have to be submitted for any refund and date of receipt of the request will be treated as the eligibility for refund rules. In case of any ambiguity, the decision of the Director shall be final. No correspondence will be entertained regarding the refund rules.

#### Before the commencement of classes

- If the student has paid the admission fee of Rs. 50,000/-, he/she would be refunded Rs. 40,000/- only, after deduction of the administrative costs.
- If the student had paid the admission fee as well as the first instalment, he/she would be refunded the first instalment fee only, after deducting admission fees of Rs. 50,000/-.

#### After the commencement date of Classes

The student would be refunded only the refundable deposit amount (upto 90%) as mentioned in the fee component. Other fees paid are not refundable under any circumstances.



## IMPORTANT DATES

Issue of application forms begins .....	15th July 2005
Last date for submission of application forms .....	16th August 2005
Interview & Test .....	19th & 20th August 2005
Intimation to Selected Candidates .....	26th August 2005
Last date of payment of admission fees (for selected candidates) .....	10th September 2005
Last date of payment of 1st installment of fees .....	10th October 2005
Last date of payment of 2nd installment of fees .....	10th January 2006

### **The course commences on 10<sup>th</sup> October 2005**

The institute reserves the right to change the dates mentioned above.

## ACADEMIC REQUIREMENTS

### CRITERIA FOR ASSESSING STUDENTS' PERFORMANCE / GRADINGS

The following criteria will be used in for assessing taught elements, including examination papers and course work of the Master Program.

- 85+ ( A ) Work of excellent quality showing evidence of independent work, independent reading, originality, high accuracy, critical appraisal and very good presentation, a wide and through understanding of the syllabus, ability to apply theory and methods learnt to solve unfamiliar problems.
- 70-85 ( B ) Work of high quality showing evidence of understanding on a broad range of topics, good accuracy, good structure and presentation with clear aims/objectives and relevant conclusions, a good knowledge of the syllabus, some originality, limited ability to tackle unseen problems
- 55-69 ( C ) Work demonstrating a clear ability to acquire and apply acknowledge in a coherent, if uncritical fashion. Some understanding and ability to do routine familiar problems, evidence of good understanding of the main ideas in the course units, little originality, reasonable accuracy, good presentation skills with a reasonably clear structure and aims/objectives, attempts to draw conclusions.
- 40-54 ( D ) Pass. Ability to do routine work, basic understanding of the important course material, no originality, limited accuracy, adequate presentation skills with clear but limited objectives, does not always reach a conclusion.
- <40 ( F ) Fail. Work, which does not meet one or more of the pass criteria.

### ADVISORS

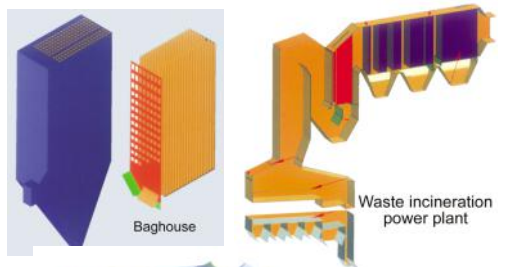
All students are assigned to a full-time faculty member who acts as a personal tutor. A supervisor is assigned to supervise the project. Students choosing a project with an industrial partner would have an additional industrial supervisor.



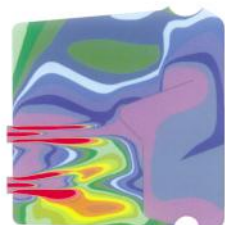
### PROJECT ARRANGEMENTS

Students who have completed the first three trimesters of the program proceed to the dissertation stage. This involves working closely with a staff member and the project supervisor on a research topic and writing and submitting a thesis. Students choosing a project with an industrial partner would have an additional industrial supervisor. A list of projects is usually circulated and students are free to choose a project from this list. Work can begin as soon as the project is chosen.





Both student and project supervisors have certain responsibilities and the school encourages students to establish formal meetings with the advisor and project supervisor present and to keep record of such meetings.



VU-60, Front fired boiler

## PROJECT / RESEARCH THESIS SUBMISSION

For the MS degree to be awarded, candidates are required to submit a satisfactory research dissertation. The examination department requires advance notice of the student's intention to submit a thesis on a particular date and it is the student's responsibility to ensure that this formality is carried out. Students must follow the written regulations on how to present the thesis. The school and the Institute determine the rules governing the presentation and submission of thesis.

## ATTENDANCE REQUIREMENTS

It is expected that all lectures will be attended and all coursework deadlines strictly adhered to, except in case of illness or other reasons as agreed with by the faculty member responsible for the module. It is the responsibility of the student to make sure that the department(s) are informed immediately in cases of absence. Unsatisfactory attendance and failure to complete coursework without valid reasons could result in a warning letter and ultimately, if attendance does not improve, banning the student from examinations and effectively from completing the course.

## PLAGIARISM

Plagiarism is the theft or expropriation of someone else's work without proper acknowledgement, presenting the material as if it were one's own. Plagiarism is a serious academic offence and the consequences are severe. The guidelines are as under.

- Coursework, dissertation and essays submitted for assessment must be your own work, unless in the case of group projects a joint effort is expected and is indicated as such. No acknowledgements, or direct copying from the work of another person, or close paraphrasing of somebody else's work is termed as plagiarism and is a serious offence, equated with cheating in the examination. This applies to copying both from other students' work and from published sources such as books, reports or journal articles.
- Use of quotations or data from work of others is entirely acceptable and is often very valuable, provided that the source of quotation or data is given. Failure to provide a source or put quotation marks around material that is taken from elsewhere gives the appearance that the comments are ostensibly your own. Similarly, when repeating someone else's mathematical argument or proof, you must give appropriate references.
- Sources of quotation used should be listed in full in a bibliography at the end.
- Direct quotations from an earlier piece of your own work, if unattributed, suggest that your work is original, when in fact it is not. The direct writing of one's own writings qualifies as plagiarism if the fact that the work has been or is to be presented elsewhere is not acknowledged.
- Plagiarism is a serious offence and will always result in imposition of a penalty. In deciding upon the penalty the Institute will take into account factors such as the year of study, the extent and proportion of the work that has been plagiarized and the apparent intent of the student. The penalties that can be imposed range from a minimum of scoring zero for the work presented (without allowing resubmission), through to the downgrading of degree class, the award of a lesser qualification to the disciplinary measures such as suspension or expulsion.



# INFRASTRUCTURE

## RICCR INFRASTRUCTURE

High-productivity computer complex (HPCC) PARAM-10000 produced by C-DAC (India), which permits to carry out the parallel computations solving large-scale problems in various spheres.

The optimal configuration consists of

- |                                     |          |
|-------------------------------------|----------|
| 1. Processor ULTRA SPARC II 400 MHz | 44 units |
| 2. Volume of the operative memory   | 12 Gb    |
| 3. Volume of the disc space         | 396 Gb   |
| 4. Productivity of HPCC PARAM 10000 | 36 GFL   |
- The interconnection of system blocks is realized through PARAM NET and ETHERNET.
  - PARAM 10000 is incorporated into local computer net of ICAD RAS and of the Centre, thus providing the access to it for all research officers just from their working positions, as well as for external users with the help of INTERNET

## COMPUTING INFRASTRUCTURE

- Computing facility based on multiprocessor servers
- State-of-the-art multimedia desktops and workstations
- Well-equipped internetworking laboratory
- Sophisticated management tools, facilitating totally-managed network environment for learning
- Online study framework and online student facilitation framework on the wired campus intranet

## CONNECTIVITY AND GLOBAL ACCESS

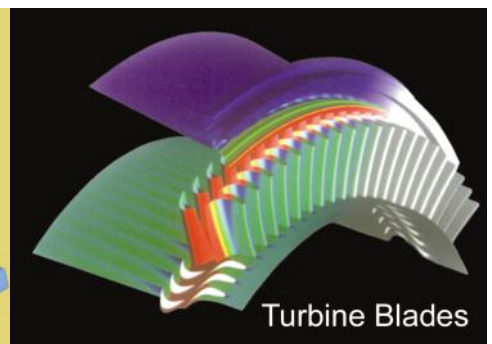
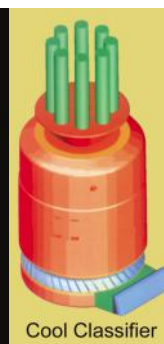
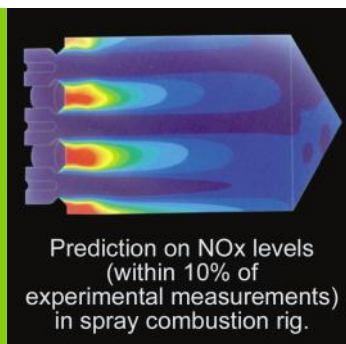
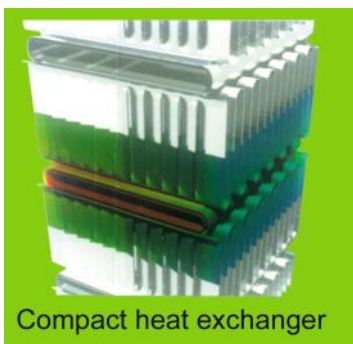
- High-speed campus wide network connecting multimedia desktops to the multiprocessor servers
- Gigabit backbone implemented through fibre optic cables
- Broadband connectivity to the internet

## FACULTY AT I<sup>2</sup>IT

- Highly qualified and with Industry experience

## I<sup>2</sup>IT CAMPUS

- Located in the Infotech Park, Hinjawadi, Pune, the knowledge city of India, promoted by Software Technology Parks, India (STPI)
- Situated in the neighborhood of Infosys, Wipro, Cognizant, Geometric and other leading IT industries
- Medical emergency and care centre including nursing centre
- Fully air-conditioned and well-equipped lecture theatres, labs and library
- Well-stocked physical library along with a comprehensive digital library
- State-of-the-art convention centre equipped with audio-visual system and mood lighting effects
- Cafeteria serving multi-ethnic cuisine and has the capacity to accommodate upto 600 people
- Sports, gymnasium and swimming pool facilities
- Excellent hostel facilities with shared accommodation and modern amenities. Single-bed AC rooms are also available
- Sprawling 12-acre institute premises



## IT INFRASTRUCTURE

The institute is fully equipped with advance IT infrastructure to support academic and research activities of various streams as follows:

### Advanced Software Technology

- **Database Technologies**
  - Oracle 10g
  - DB2 UDB
  - SQL Server 2000
  - MySQL
- **Application Server Technologies**
  - IBM WebSphere
  - Oracle 10g Application Server
  - JRun / Tomcat
- **Application Development Technologies**
  - C, C++, VC++
  - Java Technologies
  - . Net Enterprise Framework
- **Software Development Life Cycle**
  - Software Analysis, Design and Development
    - i. Visual Paradigm V4.1
    - ii. Rational Suite with XDE for Java and .Net
    - iii. Rational ClearCase
    - iv. System Architect
  - Software Project Management
    - i. MS Project
  - Software Testing
    - i. WinRunner v7.6
    - ii. Rational Robot
    - iii. Rational Functional Tester
- **Data Warehousing and Data Mining**
  - SAS V9
  - Oracle 10g
- **Extended Enterprise solution**
  - SAP R3
- **Enterprise Application Integration**
  - IBM MQ Series
  - MS Biz Talk Server
  - MS Host Integration Server
- **E-Business Lab**
  - Microsoft Commerce Server

### Advanced Embedded System Design

- **Micro Controller Based Design**
  - 8051 Family
  - Rabbit Family
  - ARM Family
  - Proteus-VSM Simulation Tool
  - RIDE Cross Compiler
  - Kyle Cross Compiler
- **Digital Signal Processing**
  - C-Based Simulation Tools for DSP
  - TI Family Processors (Integer and Floating Point)
  - TI-OMAP Family Processors
- **Real Time Operating System**
  - m-COS
  - RTLinux

### VLSI

- **IC Design Lab**
  - Cadence Suite
  - Veracity Verification Tools
- **FPGA Design Lab**
  - Mentor Graphics FPGA Advantage
  - Xilinx

### Advanced Networking and Telecommunication

- **Networking and Telecommunication Lab**
  - Cisco 1700, 2500 and 2600 series Routers
  - Cisco 1900 and 2900 series Switches
  - Entrasys and Nortel managed switches
  - Ciso Pix 515 Firewall
  - ZTI - IP Traffic Measurement Tool
- **Wireless Lab**
  - CDMA Trainer Kit
  - GSM Trainer Kit
  - GPS Trainer Kit
  - Linksys 802.11 Wireless router
  - Linksys 802.11g Wireless Bridge

### Computer Associates Lab

- **Network Management System**
  - CA Unicenter Network and System
  - CA Unicenter Network Performance Option
- **Access Control Management**
  - eTrust Audit
  - eTrust Access Control
  - eTrust Siteminder B to E
- **Software Analysis and Design**
  - Allfusion Erwin Data Modeler
- **Database Technology**
  - Open Ingress



Gas turbine combustor transition piece assembly



# FACULTY

**Prof. Krishna Moorthy**  
Director

## TEACHING STAFF

### MBA Faculty

Kanad Bandopadhyay .....	Professor - SOMT
Narendra Sakhalkar .....	Professor
V. Vedak .....	Associate Professor
Vinit Thakur .....	Associate Professor
S. Vijaykumar Bharathi .....	Senior Lecturer
Rama Gautam .....	Senior Lecturer
Srikanth Acharya .....	Senior Lecturer
Aradhana Gandhi .....	Lecturer
Raji Nair .....	Lecturer
Rajesh Chandwadkar .....	Lecturer
Mandar Joshi .....	RA

### AST Faculty

Atanu Rakshit .....	Professor & HOD
Pankaj Roy Gupta .....	Professor & VP Industry Linkages & Projects
Tathagata Bhattacharjee .....	Assistant Professor
Vaishali Kunchur .....	Assistant Professor
K.S. Reddy .....	Assistant Professor
Manisha Akolkar .....	Senior Lecturer
SS. Suresh .....	Senior Lecturer
Vaishali Kadam .....	Lecturer
Shyju Nair .....	Lecturer
Vinay Gupta .....	Senior RA - (Teaching)
Nivarutti Patil .....	RA
Rajagopal S .....	RA
Subhash Shirsat .....	RA
Rajiv Ranjan .....	RA

### ANT Faculty

Sunil Patil .....	Professor and VP International Relations
Bharat Chaudhuri .....	Professor
Ravindra Joshi .....	Assistant Professor
Ajithkumar .....	Senior Lecturer
Sahana Bhosale .....	Senior Lecturer
Vinayak Patil .....	Lecturer
Ravikant Ambulgekar .....	Senior RA (Teaching)
Rushikesh Ghate .....	RA
Shekhar Gaikwad .....	RA
Mohini Sudan .....	RA

### VLSI Faculty

B. K. Das .....	Professor
Manish Patil .....	Associate Professor
Narendra Bolabattin .....	Lecturer
S. Prakash .....	Lecturer
Rajendra Tawade .....	RA
Anita Patil .....	RA

### ESD Faculty

Srikanth Thiagarajan .....	Professor & HOD
Revati Kulkarni .....	Associate Professor - VLSI/Embedded Systems
P. Jothibasu .....	Lecturer
Sigu Joseph .....	Lecturer
Selvaraju M .....	Lecturer
Girish Choudankar .....	RA
Priti Randive .....	RA
Ramchandra Bhat .....	RA
Prashanth Ravindran .....	RA

### Bioinformatics & MPH Faculty

Cherian Kurien .....	Professor in Bioinformatics & Public Health Program
Prashanth KS .....	Senior RA (Teaching)
N. Pradeepkumar .....	RA in Bioinformatics

### CFD Faculty

Ch. V. Ramamurthy .....	Professor
S. B. Kulkarni .....	Professor
P. S. Soman .....	Professor
Kaushal Prasad .....	Professor
Rajiv Ranjan .....	RA

## Faculty from Russian Academy of Sciences (RAS)

**Acad. Prof. O.M. Belotserkovskii**  
Director ICAD RAS

**Acad. Prof. Yu.V. Gulyaev**  
Director IRE RAS

**Prof. S.P. Kapitsa**  
Prof. Emeritus

**Prof. Yu.P. Popov**  
Director Keldysh IAM RAS

**Prof. V.A. Gushchin**  
Deputy Director, ICAD RAS

**Prof. B.N. Chetverushkin**  
Director, IMM RAS

**Prof. V.L. Yakushev**  
Scientific Secretary, ICAD RAS

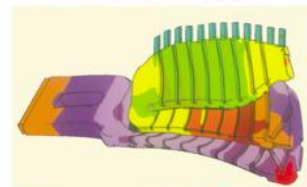
### Professors

Prof. Yu.D. Shevelev  
Prof. V.M. Chechetkin  
Prof. T. Kozubskaya

Prof. A.I. Tolstykh  
Prof. A.I. Lobanov  
Prof. V.V. Podinovskii

Dr. I. Repina  
Dr. M.N. Antonenko  
Dr. V.A. Garanzha

Dr. V. Piskovski  
Dr. M.A. Tolstykh



## Oleg Mikhailovich Belotserkovskii

Academician of Russian Academy of Sciences, Director of ICAD RAS



### CAREER TO DATE

- 1953-76 Senior Researcher, Applied Mathematics Division and Computing Centre, Academy of Sciences of the USSR (as from 1991, Russian Academy of Sciences);
- 1962-87 Rector, Moscow Institute of Physics and Technology (MIPT);
- 1972 Elected Corresponding Member and 1979, Full Member Academy of Sciences;
- 1976 Head of Department, Computing Centre, Academy of Sciences;
- 1980-87 Chairman, Scientific Council on Cybernetics, Academy of Sciences;
- since 1987 Director, Institute for Computer Aided Design (ICAD), Academy of Sciences; Head of the Chair (MIPT);

Main scientific interests include applied mathematics and computational mechanics.

### HONOURS AND/OR AWARDS

- N. Zhukovsky Prize and Gold Medal (1962);
- S.Korolev Medal (1978);
- Lenin Prize (1966);
- Order of the Red Banner of Labour (1967, 1975, 1981);
- Order of the October Revolution (1971);
- Order of Lenin (1985);
- Order of Merit to Fatherland of 3d Degree (1999)

### PUBLICATIONS/ARTICLES

- "Flow Past Blunt in Supersonic Flow. Theoretical and Experimental Results" (1967);
- "Numerical Methods in Fluid Dynamics" (1976);
- "The 'Coarse-Particle' Method in Gas Dynamics" (1982);
- "Mathematical Modeling of Myocardial Infarction (1993);
- "Numerical Situation in the Mechanics of Continuous Media", 2<sup>nd</sup> edition (1994);
- "Computational Experiment in Turbulence: From Order to Chaos (1997);
- "Turbulence and Instabilities" (1999, 2003)
- "Numerical experiment in turbulence: from order to chaos", (in Russian) Moscow, Nauka, 2000, pp. 223 (Co-author A.M. Oparin). (Ser."Cybernetics: unlimited possibilities and possible limitations")
- "Computer models and progress in medicine" (Edit. by O.M.Belotserkovskii and A.S.Kholodov), (in Russian) Moscow, Nauka, 2001, pp. 300 (Ser."Cybernetics: unlimited possibilities and possible limitations")
- "Turbulence: new approaches", (in Russian) Moscow, Nauka, 2002, 286 pp. (Co-authors: V.M. Chechetkin, A.M. Oparin (Ser."Informatics: unlimited possibilities and possible limitations")
- "Computer and Brain» (Edit. by O.M.Belotserkovskii), Moscow, Nauka, 2005, pp.321 (in Russian) (Ser."Informatics: unlimited possibilities and possible limitations")

# RECRUITERS

At any IT and Business school, placement logistics are a reflection of the technical and managerial talent honed by students during their Masters programmes. At **I<sup>2</sup>IT**, placement is not an event; it is an on-going process. It begins with counseling early in the program, continues with constant exposure to the industry and its dynamics by way of projects and assignments and culminates in the final placement of students.

The placement session begins with Pre-Placement Talks. The objective of this preliminary interaction is to enable students understand various company philosophies, ethics, expectations and operations, job profile and the package offered. Students are also briefed about the nature of orientation or training programs that they would be expected to undergo if selected.

Campus placement and project internship processes at **I<sup>2</sup>IT** are conducted thrice a year, wherein organizations from all over India are invited to the campus. This is solely for project internships and final placements. More than 110 companies participated in our placement and internship process and selected our students. **I<sup>2</sup>IT** encourages and nurtures independent thinking and the ability to explore unconventional avenues. There were students who chose the entrepreneurial path over the relatively easier corporate route to success.

- |  |                                     |                               |
|--|-------------------------------------|-------------------------------|
| • Accenture                                | • HCL Technologies                  | • Patni Computer Systems      |
| • Aftel Infosys Ltd                        | • HDFC Bank                         | • Persistent Systems          |
| • Airtel                                   | • Head Strong                       | • Piaggio Ltd                 |
| • Airtight Networks                        | • Hero Honda Ltd.                   | • Poonawalla Group            |
| • Alliance Semi Conductor                  | • Hexaware Technologies             | • Pricewaterhouse Coopers     |
| • App Labs                                 | • Hoganas Ltd                       | • Punjab National Bank Ltd    |
| • Avaya (I) Pvt Ltd                        | • HP                                | • Qualcomm Logic              |
| • Bajaj Allianz Life Insurance Co          | • HPCL                              | • Reliance Infocom Ltd        |
| • Bajaj Auto Ltd                           | • Hughes Software                   | • Saba Software India Pvt Ltd |
| • Beehive Consulting                       | • IBM                               | • Sahara.Net                  |
| • Benelec Infotech                         | • Idea Cellular Ltd.                | • Sasken                      |
| • Better Inc.                              | • Infosys                           | • Satyam                      |
| • BISIL                                    | • ING Vysya Mutual Fund             | • Scape Velocity              |
| • BPL Telecom Pvt Ltd                      | • Intesco Asia Ltd.                 | • Seacom Solutions India Ltd  |
| • Bridgeline Software Enterprises Pvt. Ltd | • Intoto Software India Pvt Ltd     | • Seagull Info                |
| • Cable & Wireless                         | • Istrat                            | • Siemens                     |
| • Cadence                                  | • Jet Airways                       | • Sierra Atlantic             |
| • Cash-Tech                                | • Johnson & Johnson                 | • Sify                        |
| • C-DAC                                    | • Kaizen Global Ltd                 | • Silicon Interface           |
| • CMS Ltd                                  | • Kanbay Software Ltd               | • Six Cube Technologies       |
| • Coco Cola                                | • Karvy Consultants                 | • Spartan Labs                |
| • CognizantTechnology Ltd                  | • Kotak Securities                  | • Sriram Net                  |
| • Co-layer                                 | • KPIT Cummins Infosystems Ltd      | • Suma Soft                   |
| • Connect Shoppee                          | • LG Electronics                    | • Sundaram Finance            |
| • Cordys                                   | • Maharashtra Knowledge Corporation | • Syngy India Pvt. Ltd        |
| • CRISIL                                   | • Mahindra British Telecom          | • Tally Solutions             |
| • Deloitte Haskins                         | • Master Embedded Systems Pvt Ltd   | • Tata Consultancy Services   |
| • Disha Technologies (I) Pvt.Ltd           | • Medident P.Ltd                    | • Tata Honeywell Ltd          |
| • Dishnet Wireless Ltd                     | • MI Tech                           | • Tata Steel Wire             |
| • Eagle Poonawalla Group                   | • Microline (I) Pvt. Ltd            | • Tata Teleservices           |
| • E-Convergence Tech                       | • Mind Tree                         | • TBWA India                  |
| • Elite Core Technologies                  | • Modular Infotech Limited          | • Thakur Infotech Ltd         |
| • Ernst & Young                            | • Msource                           | • Unifreight India            |
| • ETH                                      | • NCC Telecom                       | • Videocon                    |
| • Exband Technologies                      | • Netpro Technologies Limited       | • Wibhu Technolgoies          |
| • Fast Track                               | • NIS Sparta                        | • Wipro Technologies          |
| • Finolex                                  | • Nital Computers                   | • ZensarTechnologies          |
| • Hathway Cables                           | • Omniscient                        | • Codec Communications        |
| • HCL Infosystems Ltd                      | • Parasoft                          |                               |





List recent employment,  
citing most recent  
employer first

Organization and Location	Position Held	Duration
■		
■		
■		

Provide the names and positions of three persons who will submit references on your behalf. A recommendation from at least one college instructor is required for recent graduates or current undergraduates. If you are employed, at least one letter from a superior in your organization is required. For fresh graduates, please give names of two professors from your University / Institute

Name	Organization / Position	Tel. Nos.

Indicate latest valid scores for the examinations

[illegible]<sup>1</sup> – Only other accepted aptitude examinations; <sup>2</sup> – Indicate name of examination.

Indicate latest valid scores for the examinations

Examination	IELTS	TOEFL	TOEIC	Others <sup>2</sup>
Score				
Validity till (mm/yy)				

<sup>1</sup> – Only other accepted aptitude examinations; <sup>2</sup> – Indicate name of examination.

Explain in 250-300 words, why you want to join this course. (Attach an extra sheet of paper)

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In case you have not paid the application fees, kindly mail a Demand Draft for Rs. 1,000/- drawn in favour of '**International Institute of Information Technology**' payable at **Pune** with the name and address of the candidate on the reverse. Send the completed application form to 'The Student Services Cell' of the institute at the given address. For those who have already paid the application form fees, please send the form along with photocopies of the documents.

I affirm that all of the above statements are true and correct to the best of my knowledge. I understand any false or misleading statement may constitute grounds for denial of admission or later expulsion.

Signed	Date
--------	------

(Please send only photocopies)

- |                                     |                                      |
|-------------------------------------|--------------------------------------|
| • MARK SHEETS (OF ALL EXAMINATIONS) | • WORK EXPERIENCE (IF ANY)           |
| • QUALIFYING EXAM SCORE SHEET       | • ADDITIONAL CERTIFICATIONS (IF ANY) |
| • VISA COPY (IF APPLICABLE)         | • PASSPORT COPY (IF AVAILABLE)       |

## THE ACADEMIC COUNCIL OF I<sup>2</sup>IT

**Dr. Vijay P. Bhatkar**  
Chairman, Academic Council

### MEMBERS

**Academician O. M. Belotserkovskii**

Academician, Institute of Computer Aided Design, Moscow

**Prof. D Popovic**

University of Bremen, Germany

**Prof. Doo-Kwon Baik**

Professor of Computer Science & Engineering,  
Korea University

**Prof. Govind Swarup**

Prof. Emeritus, NCRA, TIFR

**Mr. Johnny K John**

Director of Engg QCT DSP Systems – M/s Qualcomm  
CDMA Technologies, San Diego

**Mr. Manohar Paralkar**

Dy. General Manager (Human Resource), Tata Motors Ltd,  
Pune

**Prof. R G Takwale**

Professor Emeritus, University of Pune

**Prof. S. Venkatraman**

Research Director and Head of Entrepreneurial Program,  
Darden Business School, University of Virginia

**Prof. Sethuraman Panchanathan**

Chairman, Computer Science and Engg Dept.  
Director, Institute for Computing and Information Science and  
Engg (InCISE) & Director, Research Center for Ubiquitous  
Computing (Cubic), Arizona State University, Tempe.

**Mr. Steve Puthuff**

Chairman, Pres. & CEO–Step Communications Corp.,  
San Jose

**Mr. Sudeep Roy**

Director (Engg) – M/s Qualcomm CDMA Technologies,  
San Diego.

**Prof. Shamkant Navathe**

Professor Computer Science & Management,  
Georgia Institute of Technology, Atlanta, Georgia

**Prof. Vinayshil Gautam**

Director, IIT School of Management, Delhi

**Prof. Virendra Bhavsar**

Prof. & Director of Adv. Computational Research,  
University of New Brunswick, Canada

**Dr. Young Soo You**

President & CEO of Foundation for International  
Corporation of Science & Technology (KICOS), Korea  
(Ex-IBM Research Labs & HP Research Labs, USA)

### MANAGEMENT TEAM

**Prof. Krishna Moorthy**

Director – International Institute of Information Technology

**Prof. A. Rakshit**

Dean – School of Technology

**Prof. Pankaj Roy Gupta**

Associate Dean (Russian Program)

## ADVISORY COUNCIL MEMBERS

**Mr. P. P. Chhabria**

Chairman - I<sup>2</sup>IT & Finolex Group

**Dr. Vijay P. Bhatkar**

Chief Mentor - I<sup>2</sup>IT

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