



Mathematics and Computing Integrated M.Tech. (5 Year)



2013-2014
Placement Brochure

Indian School of Mines, Dhanbad

Message from the Head

The Department of Applied Mathematics has constantly strived to live the vision of Indian School of Mines of producing world class graduates. We have tried to leave no stones unturned in our efforts to provide the best of facilities and academic atmosphere which would enable our students to be flexible enough to adapt and evolve in this complex society.



Prof. Gauri Shankar Seth
Head of the Department
Department of Applied Mathematics

I am happy to welcome recruiting organizations to this recruitment program. It is my earnest belief that the rigorous academics and vibrant life at ISM go a long way in preparing our students to face a diverse array of challenges and take on multi-faceted positions of responsibility as is the requirement of contemporary corporate world.

I am confident that the students recruited by you will exceed your expectations and prove to be an asset to your organization, in the process enhancing the reputation of their alma mater.

I wish all the students good luck in their endeavor to seek a dream job. I hope that the recruiting organizations will be able to derive an immense benefit through this program and this will go a long way in paving for a long term, fruitful relationship.

Introduction

Indian School of Mines is an autonomous institution under the aegis of MHRD. It is one of the oldest institutions of India. The Department of Physics and Mathematics was established in 1926 at the time of inception of the institute. The department was given an independent status in 1989 as the Department of Applied Mathematics.



The Integrated M. Tech. course in Mathematics and Computing offered by the Department of Applied Mathematics is an exciting, unique and interdisciplinary programme. Students get enrolled in this programme after clearing the highly competitive and prestigious Joint Entrance Exam (JEE) conducted by the Indian Institutes of Technology (IITs). The course consists of 10 semester's worth of academic curriculum of which the first two semesters are common with all the engineering disciplines of ISM. The students are thus first trained with the fundamental tools of engineering. Thereafter, they are exposed to the theoretical and applied aspects of mathematics, statistics and computer science. They are further acquainted to real world problems through course projects and research internships at various national and international universities and corporate sectors.

Facilities Provided:



Department Library



Computer Architecture Lab



Computer Lab

The Department of Applied Mathematics provides various facilities to the students i.e. a fully Air Conditioned Department Library with a collection of all the important books, a fully Operational Computer Lab with access to important licensed software's like Mathematica, SPSS, MATLAB and a fully equipped Computer Architecture Lab.

Curriculum

PURE MATHEMATICS

Linear Algebra
Abstract Algebra
Real Analysis
Complex Analysis
Topology
Mathematical Logic
Measure Theory & Integration
Number Theory
Functional Analysis

APPLIED MATHEMATICS

Discrete Mathematics
Numerical Methods
Mathematical Modeling
Calculus of Variation
Applied Graph Theory
Fuzzy Set Theory & Application
Differential Equations
Integral Equations
Operations Research
Finite Element Methods

COMPUTER SCIENCE

Procedural Programming: C
Object Oriented Programming: C++
Data Structures
Algorithm Design & Analysis
Computer Organization
Operating Systems
Computer Networks
Data Base Management Systems
Data Mining
Theory of Computation
Language Processor
Software Engineering
Software Reliability
Computer Graphics
Cryptography & Network Security
Parallel & Distributed Computing
Artificial Intelligence

STATISTICS

Probability & Statistics
Statistical Inference
Stochastic Process
Time Series Analysis
Sampling Theory
Industrial Statistics

FINANCE

Managerial Economics
Econometrics
Stochastic Calculus for Finance
Financial Mathematics

Exposure

The students of the current batch are involved in several areas of research. The research topics include pure and applied mathematics, Financial Derivatives as well as computer science. Apart from the research work carried out at the institute, the students also undergo internships at various reputed organizations as well as companies during the course.

Universities :



Companies:



Past Recruiters:



Outside the Classroom

Extracurricular activities make the campus life lively as well as motivate team work and inculcate leadership qualities. The Web designers club, "Cyber Club", organizes Cyber weekends for computer savvy students throughout the Year. Cultural, Scientific and Literary Society endeavors in the field of Dramatics, Literary, Debating and Dancing. For intensifying the musical passion, Music Club organizes ISM Idol. Yoga Club aims for improvement of general health and proper lifestyle among students. National Service Scheme (NSS) spread awareness in rural places where students get to volunteer for social causes. National Cadet Corps (NCC) engages in grooming the youth-'Leaders of Tomorrow'.

Srijan	Annual cultural festival of ISM involving cultural shows and competitions.	Mailer Daemon	Diligent and unbiased Student newsletter of ISM keeping Campus residents informed about events around the campus
Parakram	Annual sports festival of ISM involving Cricket, Football, Basketball, Volley ball, Badminton and Swimming.	Kartavya	An NGO providing free and high quality education to underprivileged children living in slums and villages near college
Concetto	Annual technical festival of ISM involving quizzes, competitions and exhibitions in technical fields of different branches	GENESIS	Entrepreneurship cell of ISM with events like Case Studies, Business Economic, Financial Trading etc

Placement Procedure

The procedure for effective campus recruitment followed by the T&P Cell of ISM is as follows

1. The T&P Cell invites various companies to visit and interview ISM students for recruitment.
2. The T&P Cell also encloses a Job Notification Form. The companies which didn't receive the invitation can also follow the same procedure.
3. The Job notification form needs to be filled in by the company. The completed form is to be sent through E-Mail/Fax/Post by the recruiting company to the T&P Cell.
4. On receipt of Job Notification form, the T&P Cell will allow the company to visit the campus for a pre-placement talk either before the selection process or during the final recruitment process.
5. The T&P Cell finalizes a suitable date for the selection processes, and the same will be communicated to the company. Dates are allotted on the basis of the students perception of the job offered, viz., i) job profile and growth prospects ii) compensation package and iii) past record of recruitment at ISM.
6. After completion of the selection process, the company is requested to furnish the final list of students, as soon as possible preferably on the same day.
The offer letters are to be sent directly to the T&P Cell, for handing over to the students.
Acceptance of offer from the students is sent to the company by the T&P Cell.

Contact Us :

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