

**Centre for Advanced Study in Mathematics  
Panjab University  
Chandigarh**

**DST-FUND for improvement in S&T Infrastructure**

**Brief Outline of Department**

The Department of Mathematics, Panjab University, Chandigarh was established in 1952 at Hoshiarpur and was shifted to Chandigarh in 1958. It has grown to be one of the best Departments of Mathematics of the Indian Universities. It has been recognized as Centre of Advanced Studies in Mathematics since 1963 by the UGC and has participated in COSIP Program from 1971-1983 and in COSIST Program from 1984-89. It has a sanctioned strength of 32 faculty members out of which 20 are working at present.

The National Board for Higher Mathematics (NBHM) has granted the status of Regional Library to the Library of the Department and supports the Consortium for the online access of Math Sci Net, for which the Department is the leading partner.

The Department has two well-equipped and well-furnished computer labs. housing about 80 computers being extensively used by the faculty, research students and the students of this Department.

**Teaching & Research Activities**

○ **Teaching**

The Department offers the following courses:

1. B.Sc. (Hons. School) in Mathematics (3 years)
2. B.Sc. (Hons. School) in Mathematics & Computing (3 years)
3. M.Sc. (Hons. School)-I (2 years)
4. M.Sc. (Hons. School)-ii (through entrance test)(2 years)
5. The Department also offers courses in Mathematics to other Science Departments on the University Campus.

- **Research Activities**

The faculty of the Department has the expertise to supervise and conduct research in the following specializations:

### **Thrust Areas**

The Thrust Areas identified were Number Theory, Algebra, Analysis, Non-Linear Phenomena & Applied Mathematics (Chaos and Magneto-Hydrodynamics and Elasticity

### **Other Areas**

Topology, Numerical Methods and Linear Programming.

Presently, there are 11 research students pursuing research.

### **Facilities Created out of FIST Grant**

Two well equipped, networked computer labs for training and research purposes were created having following hardware and software facilities:

1. A **Server** with Intel original Dual Processor(intel) Boxed two, 18GB SCSI-II(minimum 10,000 RPM) dual disc drivers - two 1024MB ECC PC 133 CD RAM Intel Ether Express Pro(10/100 MBRS) PC cards-two, 1.44 MB FOD Video display dual with 32MB Video Ram DVD drive, 19" Color Monitor, mouse, Keyboard, Internal Zip Drive (100 MB)
2. Another **Server** with Computer System(for Large and Complex Calculations) make HP (HP Proliant ML150G2 model ) with configuration:3 GHz (gigahertz) Intel Xeon, Intel Nocona/Lindenhurst-VS/Hance, 36GB SCSI HDD, 1GB RAM, SONY DVD-ROM DDU1615, 3.5" FDD, Embedded Broadcom NetXtreme 5721 PCI-E Gigabit NIC, Keyboard, PS/2 Mouse, HP COMPAQ 7540 [Monitor]
3. **Computer Systems**- 45; **UPS**-49; **Printers**-8(Inkjet); Two **Network Printers** of HP Laser 2600N and 3800; **Scanners**-2 of HP Scanjet 4370;Other **hardware parts**: Cat 5 Cabling-1200mtrs.; I/O Switch-48; 24-port switch-2; CD-Writer-1
4. **Software**-3(Windows NT, Mathematica and Mapple)

**For further details contact:**

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**Subject: DST-FIST Website.**

Dear Dr. Bhattacharyya,

This has reference to your letter dated – nil on the subject cited above.

Kindly find enclosed herewith the information in respect of Department of Mathematics, Panjab University, Chandigarh on the prescribed FORMAT I. Also sent herewith is the CD containing the information required by you.

With regards,

Sincerely yours,

(Madhu Raka)  
Chairperson

**D.A.: As above**