



INDIAN INSTITUTE OF
SCIENCE

OPEN DAY

MARCH 10, 2018
9 am - 5 pm



LIVE EXPERIMENTS

POPULAR SCIENCE LECTURES



SCIENTIFIC DEMOS

EXHIBITIONS



**TAKE A WALK THROUGH... EXPLORE,
EXPERIENCE & ENJOY**

To find your way around the campus, download the free Google app "Navigate@IISc"
<http://www.iisc.ac.in>



Partner with us for a green open day

Do not litter - segregate your waste | Bring your own water bottles

Archives and Publications Cell has organized an Exhibition on

“Glimpses from IISc’s Past”

in the Reception Hall, Main Building, IISc



Visit IIScPress stall for the Books and Gifts

‘IIScPress Books, Centenary Medallion, Key Chain, Pen Drive, Mugs, Snippets from Archives, Jute Bags, Picture Postcards etc.,’

Background picture courtesy : IISc Photography Club

Message from the Director, IISc

The Indian Institute of Science (IISc) was conceived and founded by Shri Jamsetji Nusserwanji Tata, whose birthday on the 3rd of March, is celebrated in IISc as Founder's Day. The 28th of February is celebrated all across India as the National Science Day to commemorate the anniversary of the discovery of the Raman Effect, whose discoverer, Sir C V Raman, was a former Director of IISc.

It is in conjunction with these days that, each year, IISc holds an Open Day during which its portals are open for the public to observe first-hand the activities of the Institute. This year again, the Institute welcomes you on Saturday, the 10th of March, to Explore, Experience, and Enjoy the wonders of scientific and technological research and innovation in IISc, Bengaluru.

OPEN DAY 2018

Following events are being conducted by the Departments of IISc

AEROSPACE ENGINEERING (AE)

FROM UAV LAB

- **Roto GP**

Summary - Drone racing

Venue - Airfield

- **Roto Rescue**

Summary - Using drones to rescue multiple victims (landing pads) located in an obstacle rich environment.

Venue - Airfield

- **Roto Lemon-n-Spoon Race**

Summary - Using drones to carry a spoon holding a lemon of fixed overall weight along a track in shortest time.

Venue - Airfield

- **Roto Endurance**

Summary - Using drones to pass through maximum number of laps in a single charge.

Venue - Airfield

- **Static display of various UAV's**

Summary - UAVs designed and developed in UAV Lab, Department of Aerospace Engineering

Venue - Quadrangle Area, Ground Floor, Department of Aerospace Engineering

VIBRATION AND ACOUSTICS LAB

Venue - Quadrangle Area, Ground Floor, Department of Aerospace Engineering

- **Table Top Plate Mode Shape**

Demonstration

- **Posters from Vibration and Acoustics**

OPEN CIRCUIT WIND TUNNEL

Venue - Open Circuit Wind Tunnel (OCWT)

- **Open Circuit Wind Tunnel Display**

- **Wind Tunnel Models Display**

- **Visualization of Model Wind Tunnel Flow**

Laboratory for Hypersonics and Shock Wave Research

Venue - Laboratory for Hypersonics and Shock Wave Research

- Model display of HST2 – Shock Tunnel
- Color Schlieren & Shadowgraph experiments (using drier, candle and helium jet)
- Reddy Tube demonstration
- FPST
- Supersonic Jet experiment
- Plasma experiments
- Auto Rotation experiment
- Chemical Kinetics poster
- Bio-medical Application of Shockwaves display
- Detonation driven tunnel
- SCRAM Jet Model display

From Structures Lab

- Poster presentation
- Demo experiments on NDE/SHM of composite structures

BIOCHEMISTRY (BC)

- DNA: The code of nature
- Understanding genomic instability
- Guardians of genome
- Cure to the incurable: cancer-origin and therapy
- What are heat shock proteins and how do they protect our cells
- How does a cell fight foreigners?
- Know the parasites: Little monsters within us
- Enigmatic enzymes and vivacious viruses: lessons from baffling biological stories
- How to make vaccines?
- The road to next generation drugs: Microbes coming to help where synthetic drugs chemistry fails
- Extraction and bioassays of plant and fungal natural products

CENTRE FOR ATMOSPHERIC AND OCEANIC SCIENCES (CAOS)

- Live demos related to ocean and atmospheric science
- Screening of documentaries
- Quiz and posters

CENTRE FOR BIOSYSTEMS SCIENCE AND ENGINEERING (BSSE)

- Kinect-Dancing robot
- How to make beating heart model
- Drug delivery-Killer shots to treat infection
- Fun with microscopes
- Quiz

CENTRE FOR CRYOGENIC TECHNOLOGY (CCT)

- Cryo bazooka
- Magnetic levitation
- Lenz's law
- Resistance Vs Temperature
- Wavelength Vs Temperature
- Hoeffler's Tube
- Boyle's law
- Charles's Law
- Gay-Lussac's law
- Property changes at cryogenic temperatures

CENTRE FOR HIGH ENERGY PHYSICS (CHEP)

Informative Videos: Large Hadron Collider (LHC) Physics, Collider Physics, Gravitational Lensing, How LIGO works?, Dark Matter Detection Experiments, Quantum Computation

Poster: Elementary Particle Interactions and Standard Model, Higgs Physics, Dark Matter, Quantum Computation, Black Holes, Neutrino Oscillations, Lattice

Gauge Theory, Experimental High Energy Physics (CMS Detector)

Table Top Display of the Working of a Particle Collider

CENTRE FOR INFRASTRUCTURE, SUSTAINABLE TRANSPORTATION AND URBAN PLANNING (CISTUP)

- How Traffic Signals Work? Learn Through A Game

CENTRE FOR NANOSCIENCE AND ENGINEERING (CeNSE)

DISPLAY OF DEMOS

- Staircase lighting
- Chemical tree
- Chemical garden
- Magic fountain (water flowing out continuously from a hanging tap)
- Magic ball
- Shocking coil
- Periscope
- Kaleidoscope
- Gear wheel
- Clap on/off switch
- Speed counter
- Magic water
- Flush out tank principle
- Hovercraft principle
- Solar cell
- Hydro power
- Logic gates
- Water voltmeter
- Rain alarm
- Fire alarm
- Brahma press
- Automatic street light
- Pressure equalization
- Solar car racing
- Super hydrophobic surface (water bouncing like a ball!)
- Gyroscope
- Punching box to measure one's strength

- Acoustic levitator (floating water droplets)
- Thermal imager (each visitor will get to see his/her heat image and get a copy of the same in email)
- Optical waveguides to guide light, total internal reflection
- Illustration of meter to nano meter
- Window tour of the state of art cleanroom housed in CeNSE where one can view the advanced nano-fabrication facilities, the one of its kind in India and one of the best in the world!
- Quiz where winners will get a chance to actually go inside the cleanroom, wearing bunny suits!

CENTRE FOR NEUROSCIENCE (CNS)

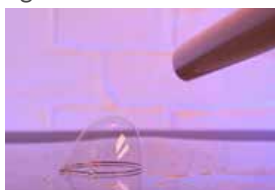
- Overview of research at CNS
- Human brain demo
- In vivo imaging demo
- Neurodevelopment demo
- Generation and control of EEG waves
- Perception and illusion demo
- Attention/brain imaging stimulation
- Spike Recording

CENTRE FOR SUSTAINABLE TECHNOLOGIES (CST)

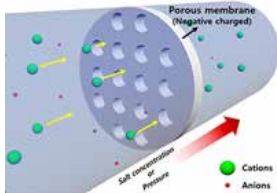
- Live demonstration of biomass gasifier operation
- Poster exhibition showcasing work in progress at the center

CHEMICAL ENGINEERING (CE)

- **Static charge on bubbles:** What happens to the rubbed balloon is brought close to the bubble?



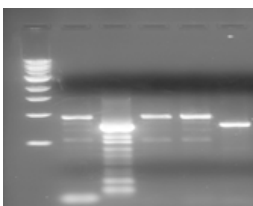
- **Electrokinetic Phenomena and applications:** Electrokinetic Phenomena emphasizes the impact of methods such as capillary zone electrophoresis, capillary electrochromatography, and capillary gel electrophoresis on the analysis of biomolecules.



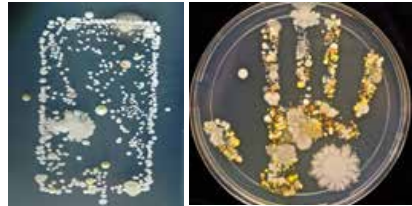
- **uPADs: Platform for multi-analyte detection:** Microfluidic paper-based analytical devices (uPADs) are a new class of point-of-care diagnostic devices that are inexpensive, easy to use and user-friendly. The idea is to make disease diagnosis affordable and accessible in low resource settings, harsh military environments, and even for home healthcare.



- **The DNA exhibition:** An exhibition of different sizes and types of DNA that can be produced in the lab and how it looks to the naked eye, demonstrated using the principles of gel electrophoresis.



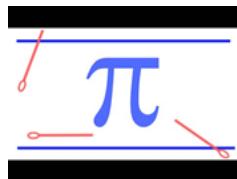
- **Visible effects of microorganism:** in day to day life. We do not care much about the cleanliness. However, we will show the harmful microorganisms grown in the lab and how easily the contamination may spread.



- **Heat Engine:** Demonstrating the Carnot principle and explaining the entropy.

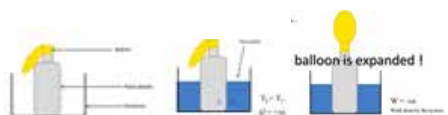


- **Buffon's Needle:** Calculating π value from Monte-Carlo method.



DEMONSTRATION OF THERMODYNAMICS LAWS

- **The law of conservation of energy** also known as the First Law of Thermodynamics will be demonstrated by the following method:



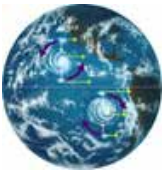
- The second law of increase in entropy



- Supposedly contradictory effect of salt in water foaming



- Hydrogen generation model
- The Coriolis Effect



- Slow Motion Ball – Interaction of gravitational, viscous and adhesive forces



- Battery using coins
- LED bulb lighting using inkjet printing



- Experiments on Kelvin Helmholtz instability



CIVIL ENGINEERING (CIE)

GEOTECHNICAL ENGINEERING

DEMONSTRATIONS

- Soil pollution and consequences with remedial action
- Shaking table
- Large cyclic triaxial testing system and poster on Seismic Zone and Earthquake
- Site Amplification and Liquefaction Demonstration
- Display of Resonant Column cum Cyclic Triaxial Instrument

STRUCTURAL ENGINEERING

DEMONSTRATIONS

- Fracture mechanics based experiments on concrete
- Multi-component earthquake simulation
- Experiments in dynamic lab
- Pseudo dynamic testing on the reaction wall system
- Biaxial testing machine
- Shake table

WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

- Demonstration of Smart Water Lab
- Parameter Estimation in Coastal phreatic aquifer near Mukka (Karnataka, India)
- Four Decades of Microwave Satellite Soil Moisture Sensors: Product Validation and Inter-Satellite Comparisons
- Suggested Parameterization Choices in the Weather Research and Forecasting (WRF) Model for Extreme Rainfall Event Simulations over India
- Mutual Information and Entropy based

- Band Selection for Spectral-Spatial Classification of Hyperspectral Images
- Sensor Network based Cyber Physical infrastructure for continuous monitoring of Water Distribution Network
- Inter-comparison of GRACE data over India
- Presentation: Earth from space

TRANSPORTATION ENGINEERING

- Find out how to make roads safer in India
- See how simulation models help in improving the traffic conditions in cities
- Knowing behavior of drivers and pedestrians using simulations
- Ever thought about how your travel patterns affect climate change!
- High speed rail in India: Reality or a Dream?
- How different are the car movements in Bangalore and Beijing cities?
- Back bone of transportation system: 4 stage travel demand model

GENERAL QUIZ

COMPUTATIONAL AND DATA SCIENCES (CDS)

- Quiz
- Demos & Live Simulations
- Displays
- Talks

COMPUTER SCIENCE AND AUTOMATION (CSA)

- Blind Coding
- Hackathon
- Quiz (School)
- Quiz (College)
- Hourly Fire

- Interactive Demos
- Augmented Reality
- Keynote Talks

ELECTRICAL COMMUNICATION ENGINEERING (ECE)

TALKS AND QUIZ

Venue: G J Hall

- Optics and Photonics Applications Lecture OPAL
- Optics and Photonics Applications Quiz

4 Sessions:

- ♦ OPAQ1 – School level 15 mins forenoon
- ♦ OPAQ2 – College level 15 mins forenoon
- ♦ OPAQ3 – School level 15 mins afternoon
- ♦ OPAQ4 – College level 15 mins afternoon

DEMO/POSTER LIST

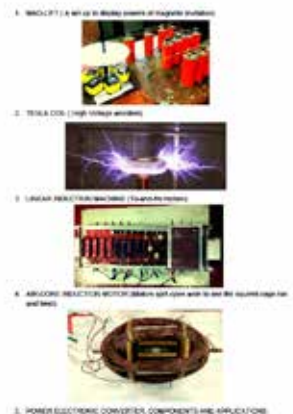
- DEMO – Binaural localization
- DEMO – Object tracking using Radar
- DEMO & Poster Presentation – Novel Protocol for Network Monitoring Co-loam
- DEMOS & DISPLAY – Basic Optics and Applications (School level)
- DEMOS & DISPLAY – Optical Sensors (College level)
- DEMOS & DISPLAY – Quantum Communications (Advanced level)
- Poster Presentation – Optical Metasurfaces
- DEMOS – Simyog Technology - VR demonstration of inside a PCB

ELECTRICAL ENGINEERING (EE)

DEMOS ON POWER ELECTRONICS

- MAG-LIFT (A set up to display powers of magnetic levitation)

- TESLA COIL (High Voltage wonders)
- LINEAR INDUCTION MACHINE (To-and-fro motion)
- AIR-CORE INDUCTION MOTOR (Motors split open wide to see the squirrel cage run and twist)
- POWER ELECTRONIC CONVERTER, COMPONENTS AND APPLICATIONS



DEMOS ON SIGNAL PROCESSING

- SpIdentity: Your SPEECH is Your IDENTITY!
- Continuous Speech recognition system for Tamil Language
- Brain Switch
- Document Image Super Resolution
- Convert your humming of a song to violin tunes!
- Swap your face with your favourite celebrity!
- Glaucoma prescreening on the smart phone
- Speech denoising
- Time-scaling and pitch-scaling of speech and vocals
- Image processing on the smart phone
- Micro-motion magnification

INORGANIC AND PHYSICAL CHEMISTRY (IPC)

- Chemical Garden, Elephant Toothpaste
- Fire on head
- Chemical Chameleon
- Conservation of angular momentum and features of gyroscope
- Magic Tree
- Thunderstorm in a test tube
- Golden rain
- Ink in Milk
- Electric train and homopolar motor
- Dark room experiment
- Fire works with ice
- Magnet & Tonner experiment
- Glass blowing art
- Amusement with Mobius strip



Not all are fortunate like us to get quality education, especially in rural areas.

As a part of this prestigious science institute, some responsibilities lie on our shoulder to improve basic science education in the country.

We are a group of students, preparing material (low cost experimental models, supporting videos & drafts) that explains science topics in a simple, yet interesting manner and that can be aligned with the existing school syllabus.

There is a need to form of a stable system, which can work constantly towards this goal to make models available in rural areas.



A MESSAGE WORTH YOUR ATTENTION

Join us to be a part of this journey.

Our collective efforts can certainly bring the change.



Contact details
scienceforruralindia@gmail.com





Indian Institute of Science

KIDS ZONE OPEN DAY

Demonstration of basic science experiments

Venue : Old Aerospace Building, Opp. Choksi Hall

Date : 10th March, 2018

Time : 10:00 AM to 4:00 PM

Contact details

kidszoneiisc@gmail.com

INSTRUMENTATION AND APPLIED PHYSICS (IAP)

- 12 experimental demonstrations, which highlight the research undertaken in the Department and also on general scientific principles
- 10-15 posters highlighting the research projects that are currently being pursued in the Department
- Installation of TV screen to showcase the research and developmental activities undertaken in the Department

JRD TATA MEMORIAL LIBRARY (JRDTML)

- Library tour
- Exhibit displaying library services and holdings
- Exhibit displaying major online resources subscribed by IISc
- Exhibit displaying ORCID service
- Exhibit displaying most prolific authors of IISc during 2017
- Library brochure
- PPT based demonstration about the library, ePrints@IISc, and etd@IISc
- Quiz competition

MATHEMATICS (MA)

PANEL DISCUSSION (Time: 2:15 pm – 3:15 pm, Venue: LH1)

- Discussion over a mathematical topic which is globally of great interest
- Answering to the questions of audience related to the topic

TALK TO PROFESSORS (Time: 3:30 pm – 4:30 pm, Venue: LH1)

- Students/parents interaction with Professors discussing on common mathematical issues

QUIZ 1 (Time: 10:00 am-2:00 pm, Venue: LH1)

- Tricky and interesting conceptual questions based on mathematics for all students up to Undergraduate level

QUIZ 2 (Time: 3:30 pm-4:30 pm, Venue: LH3)

- Quiz based on general mathematical awareness and history of mathematics

GAMES (Time: 10:00 am-2:00 pm and 3:30 pm-5:00 pm, Venue: Garden area)

- New exciting games

DEMONSTRATIONS (Time: 10:00 am-2:00 pm and 3:30 pm-5:00 pm, Venue: Terrace area)

- Essential mathematical ideas in a tangible and catchy demonstration

MECHANICAL ENGINEERING (ME)

- Quiz
- Competitions (e.g. Egg Chute, Paper Towers)
- Posters and demos of ongoing research
- Cybicle (Reverse bicycle)
- Treasure Hunt
- Live science demos (Water rocket, Acoustics, Robots, Compliant mechanisms, Energy Harvesting)

MICROBIOLOGY AND CELL BIOLOGY (MCB)

- **Cell Biology group**-Cell division, vesicular trafficking will be displayed either using posters or PowerPoint presentations
- **Cancer Biology**-Posters and models will be used to demonstrate the formation, spread and treatment of various cancer

- **Virology**-Life-cycle of viruses such as HIV and HCV, in the human body will be displayed using posters
- **Immunology**-Posters and PowerPoint presentations will be utilized to teach fundamental aspects of immunology
- **Plant Biology**-Experiments on plants as a model organism to study growth and development and also the impact of microbes on plant growth will be demonstrated using posters and presentations
- **Animal models**-Demonstration of experimental animals such as C. elegans, rabbit, mouse and their significance in experimental biology will be emphasized along with the posters
- **Microbiology**-We will illustrate bacterial growth on the agar-plates also there will be posters to reveal the emergence of the antibiotic resistance and its impact on the society
- **Molecular Biology**-Display of the DNA gels together with the protein gels
- **Thermo Fisher stall**-Thermo fisher will put up their stall to organize mini-games and teach various new technology in the field of life science
- Each group will have its own activities/mini-games/quizzes for the visitors, in addition to their poster presentation/power points

MOLECULAR BIOPHYSICS UNIT (MBU)

NEURON BIOPHYSICS

Model and Animation videos of Neurons in action

- Display model of neuron explaining basic action potential propagation
- Animation videos showing the functioning ion channels in neurons

BIO-INFORMATICS AND COMPUTATIONAL BIOLOGY

Quizzes, Puzzles and Videos

- Dictionary games and crosswords for school children and college students
- Sharing of information about basics of protein structure
- Introduction to some new emerging areas of biophysics

PROTEIN FOLDING, STRUCTURE AND FUNCTION

Poster presentation and hands-on demonstration of fluorescence spectroscopy

- Simple demonstrations of fluorescence spectroscopy on protein systems
- Poster exhibition of simple real-life experiments, basic concepts of molecular biology, protein structure, function and stability with emphasis on vaccine design

CRYSTALLOGRAPHY/CRYOEM GROUP

Poster presentation, Experimental demonstration and Quizzes

- Display of various virus structures along with basic crystal systems in 3D
- Display of Microscopic view of Lysozyme crystal
- Performing of experiments to estimate the protein concentration (Ninhydrin-reagent, which has practical application in Forensic sciences)
- Quiz for kids about Indian scientists and their contributions to science

PEPTIDE/PROTEIN SYNTHESIS AND DESIGN

Demonstration of experiments

- “Fun in Chemistry” including different experiments like Acid-Base titration, Oxidation-Reduction and making of hot ice
- Extraction of DNA from Onion

DNA/RNA STRUCTURE AND SUPERCOILING

Poster presentation on DNA structure and supercoiling

- Demonstration of basic DNA structure and supercoiling with the help of a poster and a model helix (rope)

NMR IN PROTEIN STRUCTURE DETERMINATION

Poster presentation on Nuclear Magnetic Resonance (NMR) Spectroscopy

- General idea on basic NMR spectroscopy and its application to biomolecules
- Discussion on some spectral data obtained from basic 1D, 2D NMR experiments

MOLECULAR REPRODUCTION DEVELOPMENT AND GENETICS (MRDG)

POSTER DISPLAY

- Showcasing the scientific research being carried out in the department
- Research questions being addressed within the laboratories
- Displays centered around cancer
- Developmental biology, genetics, cell signaling, reproductive biology and structural biology (cryo-electron microscopy and 2017 Noble Prize)

- The models/static displays (cells, plates, cultures etc.) complemented with video displays
- Interactive games

ORGANIC CHEMISTRY (OC)

- H₂-Balloon
- Bleeding Vegetables/Burning Ice
- Iodine Crakers
- Fireball in hand/Gun cotton
- Turning Copper (Cu) into Gold (Ag)
- Dancing Sodium (Na)
- Thermochromic System & Solvatochromism
- Cabbage pH color change
- Borax glue
- Magic mud or NEW or Chemiluminescence
- MB-Sugar color change
- Nylon experiment



ROBERT BOSCH CENTRE FOR CYBER-PHYSICAL SYSTEMS (CPS)

- Demonstrations of research on autonomous systems
- Construction of drones
- Rapid prototyping (3D printer)
- Walking robot demo
- Demo and applications in the Smart City context

SOCIETY FOR INNOVATION AND DEVELOPMENT (SID)

- Showcasing the activities relevant to the industries, and in particular for MSME (Micro, Small and Medium Enterprises) sector
- Setting up a showcase area and information center

SUPERCOMPUTER EDUCATION AND RESEARCH CENTRE (SERC)

PRESENTATION ON

- “Supercomputing: if Computing is Fun,...” (Time: 10:30 AM, 2:30 PM)
- “Inside the World of Supercomputers” (Time: 10:50 AM, 2:50 PM)
- “Data Center: Feeding the Supercomputing Elephant” (Time: 11:10 AM, 3:10 PM)
- “Supercomputing for...Well, You Name it” (Time: 11:30 AM, 3:30 PM)
- Rolling slides on various aspects related to supercomputers
- Computing Hardware Displays
- Demos and Posters on SERC activities

CENTRE FOR EARTH SCIENCES [CEaS]

Interactive Displays (Tools of geological detectives)

- Isotope fingerprinting of human food habit

- Secrets of Mass Spectrometry
- Rheology of Earth
- Earth's convection model

Displays (How to reconstruct the history of the planet)

- Meteorites
- Micro fossils and bacteria under the microscope
- Mega fossils
- Rocks samples

VISIT THE FOLLOWING DEPARTMENTS FOR EXHIBITIONS AND DEMOS


- **CENTRE FOR BRAIN RESEARCH [CBR]**
- **CENTRE FOR CONTEMPORARY STUDIES [CCS]**
- **CENTRE FOR ECOLOGICAL SCIENCES [CES]**
- **CENTRE FOR INFECTIOUS DISEASE RESEARCH [CIDR]**
- **CENTRE FOR PRODUCT DESIGN AND MANUFACTURING [CPDM]**
- **DIVECHA CENTRE FOR CLIMATE CHANGE [DCCC]**
- **ELECTRONIC SYSTEMS ENGINEERING [ESE]**
- **INTERDISCIPLINARY CENTRE FOR ENERGY RESEARCH [ICER]**
- **MANAGEMENT STUDIES [MS]**
- **MATERIALS ENGINEERING [MAT. ENG.]**
- **MATERIALS RESEARCH CENTRE [MRC]**
- **PHYSICS [PHY]**
- **SOLID STATE AND STRUCTURAL CHEMISTRY UNIT [SSCU]**






Pictures courtesy : IISc Photography Club

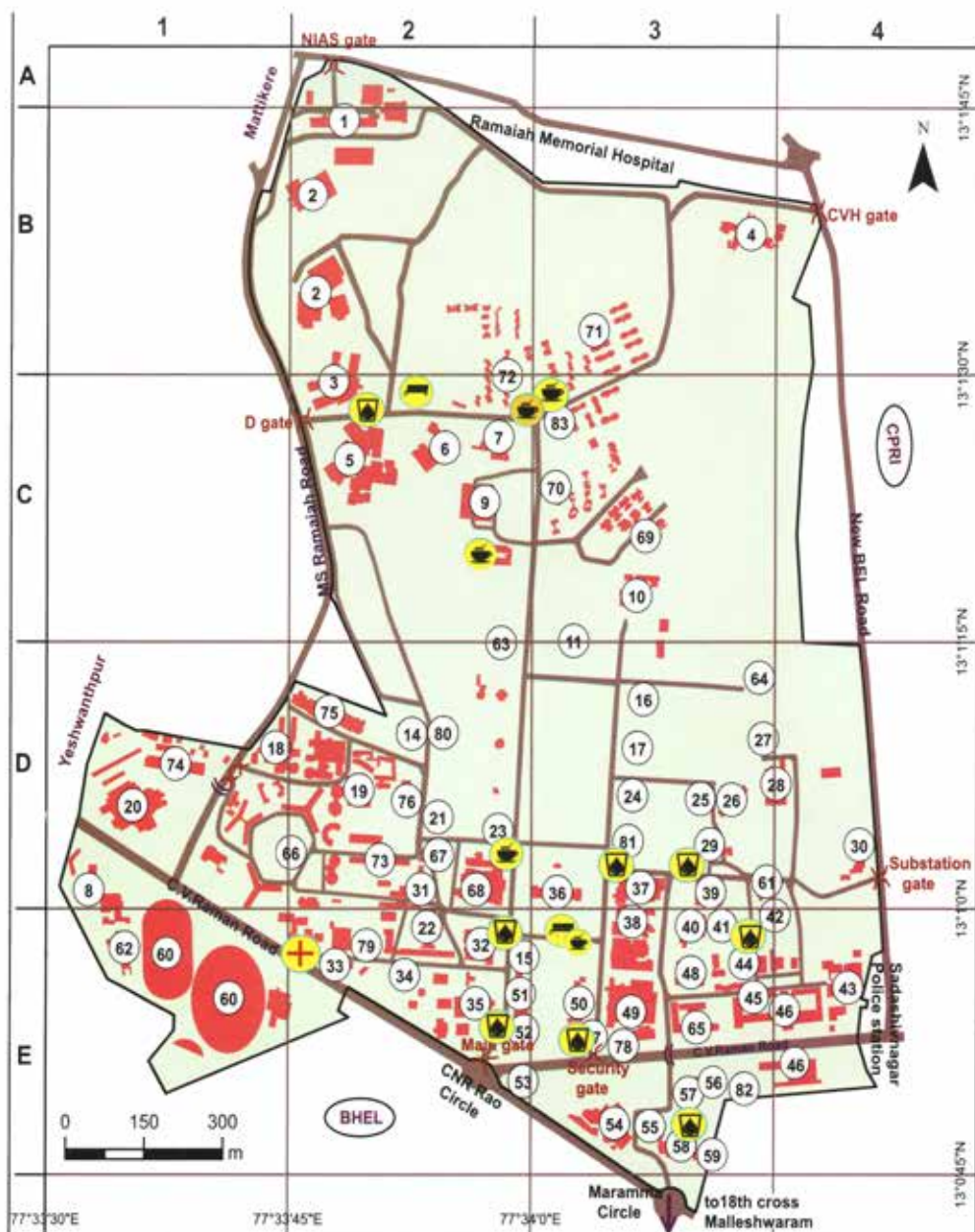
ADMINISTRATION	2E 51	J R D Tata Memorial Library [Library]	3E 32
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Gymkhana	1E 60	Molecular Reproduction Development & Genetics [MRDG]	2C 5
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Post Office (Science Institute)	2E 53	Physics [PHY]	2B, 2C 3
Swimming Pool	3D 64	Solid State & Structural Chemistry Unit [SSCU]	3E 40
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J N Tata Auditorium (NSSC)	3E 54	Hoysala Guest House	2D 67
Satish Dhawan Auditorium (CSIC)	3E 57	Jawahar Guest House [JNC]	1E 62
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Centre for Contemporary Studies [CCS]	2E 34	Staff Quarters – NSQ	2D 75
Centre for Cryogenic Technology [CCT]	2D 68	Staff Quarters – SSQ	1D 74
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 Help Desk & Drinking Water

 Refreshments stalls

 Rest Areas

 Health Centre





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Press**

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Bengaluru 560 012**

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