

# भारतीय विज्ञान संस्थान Indian Institute of Science

February 28, 2015 | 9am to 5pm

# PEN DAY

Live Experiments

Popular Science Lectures

Scientific Demos

Exhibitions

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



## Green Initiative for IISc Open Day

What YOU can do to help !

1. Bring your own water bottles- water filling stations are available - **REDUCE**
2. Don't unnecessarily take paper cups - **REUSE** them when possible
3. **SEGREGATE** your waste to help **RECYCLE** - please use correctly labelled bins for each kind of waste -- **PLASTIC, PAPER, TETRAPACK** and **FOOD** waste.



## Welcome to IISc

*The Indian Institute of Science (IISc) is proud to welcome all science enthusiasts to the Institute during its annual Open Day Celebrations. This year's Open Day will be held on Saturday, the 28th of February, 2015.*

*These Celebrations are held around the two days of historical significance to the Institute: the 3rd of March is the birthday of Shri Jamsetji Nusserwanji Tata, whose vision and philanthropy led to the founding of IISc, and the 28th of February is celebrated across India as the National Science Day to mark the anniversary of the discovery of the Raman Effect. Sir C.V. Raman, was the first Indian Director of IISc during 19933-37.*

*On this great occasion, we welcome you to Explore, Experience, and Enjoy the wonders of scientific and technological research and innovation in IISc.*

## DIVISION OF BIOLOGICAL SCIENCES

### Biochemistry

- The life of DNA
- Understanding of genomic instability: written by yeast, the bread and wine maker
- Guardians of the 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 of drugs: Microbes coming to help where synthetic drugs chemistry fails
- How can lipids help you in a happy and healthy life?
- Extractions and bioassays of plant and fungal natural products

As Adam Smith quotes in *The Wealth of Nations*, 1776, "Science is the great antidote to the poison of enthusiasm and superstition", visit the Biochemistry Department for finding the antidote.

### Centre for Ecological Sciences

The Centre for Ecological Sciences (CES), founded in 1983, offers exciting opportunities for research. We instilla tradition of rigorous enquiry in diverse areas of ecology, evolution and behavior, including evolutionary biology and sociobiology, behavioural ecology, plant-animal interactions, community and habitat ecology, molecular genetics, physiology, mathematical ecology, conservation biology, and climate change.



Research is being carried out on a number of taxa, ranging from plants to ants and elephants, including wasps, crickets, spiders, herpetofauna, birds and mammals. The projects range from theoretical to laboratory and field-based research, often with the multiple approaches being used in a complementary manner. Join us on Open Day where we will have -

- General presentations describing research at CES.
- Exhibits of live animals and preserved specimens.
- Games to test your knowledge of nature.
- Documentary screenings at 11 am, 1 pm, and 3 pm.
- Two Nature walks (10 am and 4 pm - Please assemble at CES).
- Outdoor treasure hunts through the eyes of a field ecologist (10 am, 12 noon, 2 pm and 4 pm - All treasure hunts will begin from CES).

We will even teach you some of our favourite field ecology techniques, such as navigating with a gps, and tracking animals with radio telemetry.

### Centre for Neuroscience

- Human brain demo (general).
- Overview of research at CNS (general).
- Generation and control of EEG waves (Supratim Ray lab).
- Spike recordings (Aditya Murthy lab).
- Transparent brain, model femtosecond laser (Balaji Jayaprakash lab).
- Vision and Attention demos (SP Arun and Sridharan Devarajan labs).
- Dil labeling of brain to show axonal projections; Developmental stages of mouse embryos and brains (Shyamala Mani and Naren Ramanan Labs)

### Microbiology and Cell Biology

- Microbiology: Microscopic observations of various microbial biota, culturing of bacteria, shock waves, etc.  
Posters indicating the history of microbiology, applications, etc.
- Molecular Biology: Visualizing DNA and proteins, Videos of processes like replication, transcription and translation. Posters for genetic engineering, gene therapy, etc.
- Virology: Model of virus, posters of diseases and infection mechanisms.
- Immunology: Blood testing, various animal models used for immunology Posters for basics in immunology, ELISA assay.
- Plant Biology: Microscopic visualization of plant parts, Posters and Videos showing development of plants.
- Cancer Biology/ Cell Biology: Animal models for studying cancer, Microscopic visualization of eukaryotic cells Posters and Videos explaining the cancer and cell biology.
- Movie screening (about our department).

### Molecular Biophysics Unit

Lecture by Prof. M. R. N. Murthy on "Science is fun" on 1 March 2014, 11AM, MBU seminar hall.



- Slide/Poster presentations by students on research projects at MBU.
- Slide shows about Molecular Biophysics Unit (from past to present and into the future) repeating throughout the day.
- Open Quiz Contests.
- Live demonstrations through structural models.
- Life in 3D - Real time shows of X-ray diffraction from protein crystals.

## Molecular Reproduction, Development and Genetics

Research in the Department of Molecular Reproduction, Development and Genetics is diverse, ranging from bacterial and human genetics to signal transduction, mammalian reproduction, developmental biology and stem-cell biology. The broad underlying theme involves molecular studies of cellular functioning in normal and pathological conditions that include infertility, cancer, genetic disorders, and infectious diseases.

## DIVISION OF CHEMICAL SCIENCES

- Electro-Optic Modulator.
- Piezo-Vibration Sensor.
- Pyroelectric Infrared Sensor.
- Crystal Oscillator.
- Gold Mad-Angles.
- Chemical Sensing.
- Wavelength Conversion.
- Self-cleaning Surfaces.
- Fabrication of Designed structures using 3D printing.
- A microscopic view of Cells and Tissues.
- Nucleation and its Demonstration.
- Berry (Strawberry/Raspberry) Solar Cell.
- Bulk- to Nano-Materials.
- Thermoelectricity- Source of Green Power.
- Photo-detection by semiconductor nanostructures.
- Flexible bulk heterojunction Solar Cells.
- Dye Sensitized Solar Cells.
- High-temperature insulating materials.
- Spark generators.
- Artificial Volcano.

## Materials Research Centre

- Display of Functional Nanomaterials.
- Working Principles of Lithium ion battery.
- Demonstration of CO-oxidation.
- 3D printer model.

- Gas sensors.
- Bending of light.
- Photovoltaic devices.
- Tissue regeneration.
- Color change on changes in morphology of nanoparticles.
- Use of Electron Microscopes in Nanotechnology (in-situ demonstration).
- Light-sound interaction.
- Vibration and pyro sensors.
- Posters.

## DIVISION OF ELECTRICAL SCIENCES

### Computer Science and Automation

The major events are:

- TAGME!  
Machine learning programming contest, designing algorithms to classify collection of images.
- ROBO RUSH: A line follower event for building an autonomous car traversing a circuit and avoiding obstacles.
- CODE CRUSADE: Online coding contest powered by Codechef.
- CODE FIESTA: Onsite coding contest.
- CONNECT THE DOTS  
A mixture of technical quiz and virtual treasure hunt.
- TECH CHARADES  
Dumb charades with a technical touch  
For more details on the events, talks, etc. visit <http://events.csa.iisc.ernet.in/opendays2014/index.html>.  
Tailored to address the wide variety of audience - from school kids to Professors - CSA labs are showcasing their research by
- Displaying posters outside every laboratory describing the work done in the laboratory and the achievements.
- Project and tool demonstrations, audio-visual presentations in laboratories.

## Electrical Communication Engineering

- Live Demonstrations: Indoor positioning for disaster management.  
Measuring cell-phone radiation.  
Identifying zones of science in 3G spectrum.  
Health monitoring on an Android Platform.  
Smart Connect: A system for network design and deployment of wireless sensor networks.  
Adviser: A centralized Wifi performance enhancing device.  
SeaMo+ : Seamless IP mobility management over heterogenous networks.  
6PANview: A network monitoring system for the 6LoWPAN based WSNs.  
Wonders of auditory perception.  
Sound Source identification / localization.
- Joy of music processing;
- Popular talks at Golden Jubilee Seminar Hall.
- Quiz for visitors (to be held 10.30 am – 3.30 pm) with attractive prizes.

## Electrical Engineering

A popular lecture on “Lightning” by Prof. Udaya Kumar (High-Voltage Engineering Lab, EE Dept., IISc)

Demos:

Digital Signal Processing lab - Dr. G. N. Rathna:

- Smart Surface: a virtual touch input device.
- Face recognition.
- Segmentation and denoising of images.

Computer Vision lab - Dr. Venu Madhav Govindu and Prof. K. R. Ramakrishnan.

- 3D Scanning using structured-light (LCD projector + camera).
- Applications using a 3D camera (Kinect).
- Compressed domain video processing.
- Projector Camera System.
- Video Analytics.
- View Synthesis.
- 3D modeling from Camera images of Hampi.

Power Electronics lab - Dr. Vinod John and Prof. G. Narayanan:

- Wireless power transmission using mini-Tesla Coil.
- Electromechanical energy conversion.
- Processing of solar energy using Power Electronics.
- Speed control of motor by Power Electronics.
- Know about Power Electronics converters.
- An insight into High Power Converters.

Signal and Image Processing - Dr. Chandra Sekhar Seelamantula and Dr. Muthuvel:

- Noise suppression in speech and electrocardiogram signals.
- Image denoising.
- Image super-resolution.
- “Anyone can Sing”.
- Automated medical image segmentation.

Medical Intelligence and Language Engineering Lab - Prof. A. G. Ramakrishnan:

- Automated book reader for the blind.
- Handwritten word recognition.
- Text detection from complex scene images captured by cameras.

## Electronic Systems Engineering

Energy and communication:

Energy generation from simple actions.

Self powered IR Thermometer.

Simple algorithms for Green data communication.

Simple policies for power management in sensor networks.

Li-Fi hotspot: Visual Light Communication - an alternative for the Wi-Fi hotspot. Pakshi - An android app that maps your favorite birds.

Solar powered wearable device.

Gesture recognition with 3D sensors.

Demo of machine synthesized music.

Embedded Systems:

(IONS) Indoor Outdoor navigation and surveillance Robot High performance accelerators. Field Programmable Gate Arrays (FPGA). Nano-Scale Device Research.

## **DIVISION OF INTERDISCIPLINARY RESEARCH**

### **Centre for Contemporary Studies**

We will have an exhibition on the events that have been held at CCS in the past years and also display the works that the Undergraduate students have done as part of the Humanities course that CCS conducts.

### **Centre for Infrastructure, Sustainable Technologies and Urban Planning (CiSTUP):**

- General Quiz on Transportation, Urban Planning and other CiSTUP-related research topics.
- Continuous Video display related to CiSTUP, Namma Cycle, and other related topics.
- Pocket-size brochures displaying rules to be followed on the road (as pedestrians, as cyclists, as drivers) and list of important phone numbers.
- KSRTC/BMTC Physical Models Display.
- Non-Motorized Transport (NMT) Promotion Demonstration.
- Organized Infrastructure Model Display.
- Demonstration of Mobile Application for Namma Cycle - Video and Presentation.
- Posters display on CiSTUP completed Projects.

### **Centre for Nano Science and Engineering**

1. Cleanroom Tour: Come and see equipment that make devices smaller than the width of your hair.
2. Demonstrations of sensors fabricated at CeNSE.
3. Nano Science Quiz: Test your knowledge of nano science and engineering and win exciting prizes including a chance to go inside the cleanroom.

### **Management Studies**

- Simulation games.
- Management skit.
- Extempore.
- MAD AD.
- Quizzes.
- Creative interviews.

### **Robert Bosch Centre for Cyber Physical Systems**

Innovation loves technology:

- Learn about the latest about Internet of Things for India. Crowd sourcing, smart devices, healthcare at the edge.
- Have an idea for a new technology or business? Come and learn about the academic partners to collaborate with.

### **Supercomputer Education and Research Centre**

- THE BIGGEST FLOP: At SERC, we like Flops (Floating point operations per second!). Flops measure how fast a computer is, and we have the Fastest Supercomputer in India to show it off! Take a peek at our fast machines, cool racks, and see what makes our clusters tick.
- HiPSTER SHOWCASE: Our High Performance Poster and Demo showcase has interactive simulations, visualizations and posters on scientific computing, parallel machines, and Big Data applications. Supercomputing is HiP!
- KNOWLEDGE NUGGETS: Are your genes closer to a daisy or a banana? How fast can you multiply 179424673 by 98537783? Find out at our short talks and quizzes on computing science and technology. Watch the Facebook page for a schedule of talks.
- SUPERCODER or PSEUDOCODER? Can you take on this High Performance Hackathon and come out the winner? Check out our Facebook page for participation details!

- **TIME TRAVEL:** Walk through the silicon of time for a display of the History of Computing, from floppy disks to flash drives, transistors to tablets, and see how computing has rapidly evolved over time.

Follow us on our Facebook page for more details on the SERC Open Day activities: <http://facebook.com/sercopenhdays2015>

## **DIVISION OF MECHANICAL SCIENCES**

### **Aerospace Engineering**

- (1) Posters, (2) videos, (3) display of equipments,
- (4) experiments, (5) laboratory visits, and
- (6) static display of aircraft.

In particular we will have the following:

Demonstration of Unmanned Aerial Vehicles Flight.

Experimental Displays in the Hypersonic and Shockwave Research Laboratory.

### **Centre for Atmospheric & Oceanic Sciences**

- Posters/demos on monsoons, ocean circulation and flow in the atmosphere.
- Table-top experiments to show atmospheric phenomena.
- Climate quiz.
- Measuring atmospheric properties and pollutant concentrations.

### **Centre for Earth Sciences**

- Posters.
- Video shows.
- Fossil displays.
- Rock displays.
- Experimental Demonstrations.

### **Centre for Product Design and Manufacturing**

09.00 – 13.00 – Product Exhibition.

11.00 – 12.30 – Design Competition.

13.00 – 14.00 – Lunch Break.

14.00 – 17.00 – Product Exhibition.

15.00 – 16.30 – Design Workshops on Sketching.

15.00 – 16.30 – Design Competition.

**Product Exhibition:**

Design posters, product prototypes, and mock-ups done by the M.Des students of CPDM will be displayed.

Live demonstrations will be conducted in the research labs such as CAR Lab, IDEAS Lab, VR Lab, SCALE Lab and HER Lab explaining the research work carried out by the research students of CPDM.

**Design Competition:**

Task: Creation of mock-ups/ concepts to solve a design problem.

Team: Group of 4 students.

Time Duration: 45 Minutes.

**Design Workshop:**

Theme: Product Sketching.

Hands-on training to attain the basic skill set of product sketching by Design Students.

### **Centre for Sustainable Technologies**

Center for Sustainable Technologies (CST formerly ASTRA) is mainly committed to inventing, improving or enhancing the technologies that can help us have a sustainable future. We work on broad areas from green buildings, renewable energy, climate change to water and wastewater treatment, landfill engineering and eco-toxicology. On the Open Day, the highlights of the activities at CST are as follows:

- Demonstration of the working of the ASTRA Stove and its utilities.
- A detailed insight into the working of the Biogas Plant constructed at CST
- Explanation and demonstration of the working of the Biomass Gasification System

&#61607; Operation of a 5kW Gasification System and flaring the gas which indicates the thermal utility of gasification system &#61607; The utility Of Producer Gas for engine operation and liquid fuel generation &#61607; Hydrogen Generation by controlling feed parameters

- Showcasing the activities at BiPV Lab and a demonstration of a kit of PV functioning and instruments to measure the thermal comfort parameters
- Demonstration of Alternate Building Materials
- Explanation of the Water Purification And Defluoridation Of Water
- Insight into Climate Change; Greenhouse Gas Inventory; Mitigation, Adaption And Vulnerability Assessment; Forestry and Bioenergy
- Display of a bioreactor landfill model and laboratory tested municipal solid waste samples.
- Explanation of the basic engineering properties of a municipal solid waste and the study and assessment of the landfill settlement.
- Explanation on the importance of the Eco-Toxicology, Marine Biodiversity and Ecological Studies.
- Demonstration of role of Algae in Wastewater Treatment and Biofuel Production in India.

### Chemical Engineering

- Watch the apple fall: A series of show-and-tell experiments that will challenge your intuition, and help you get a feel for basic concepts in science and engineering.
- Tickle your grey matter: Answer simple questions and win exciting prizes.
- Inspire: Know what awaits you in the world of Chemical Engineering.

### Civil Engineering:



Civil engineering mainly deals with infrastructure-related issues to provide a habitable environment. In this endeavour, problems that we tackle deal with understanding natural processes and materials and transforming them for our use. The problems at a broad level are related with water cycle and fluid flow, behaviour of structural/substructural elements and materials, transportation demand, natural hazards like floods and earthquakes. The approaches to solve these problems vary from sophisticated experimentation to computer modelling and simulations of field behaviour. Some of the interesting things on display are:

- Display of shock table, earthquake simulator and recording instruments.
- Demonstration on problematic soil and ground improvement techniques.
- Demonstration of cyclic triaxial setup, shake table test.
- Demonstration on soil pollution and consequences with remedial action.
- Design of sustainable metro feeder routes and coordinated schedules.
- Evaluation of psycho physical behaviour of driver using Electroencephalography (EEG) instrument.
- Plan your trip for public transportation using Maargamitra.
- Vulnerability assessment of road network and traffic modelling for an earthquake scenario.



- River water quality control and hydrological impacts of climate change.
- Agro-hydrological monitoring in AMBHAS site and agro-hydrology from space.

### Materials Engineering

- Display of various components used in structural, electronic and electrical appliances like aircrafts, helicopters, armours, composites, ceramics, self-cleaning and abrasion resistant coatings, hard magnets, gold nano-particles and many more.
- Videos on how materials are shaped to acquire suitable properties.
- Live demonstrations of superconductivity, shape memory effect, ElectronMicroscopes and many more.



### Mechanical Engineering

- Setting up or desktop experiments, simulations, live demonstrations, etc., at the quadrangle adjacent to Power Engineering Building on 1-03-2014.
- All laboratories of the Department and Workshop will be open for visits by the public. Also students and staff volunteers will be available to explain the features of the laboratories to the visitors.

## DIVISION OF PHYSICAL AND MATHEMATICAL SCIENCES

### Centre for Cryogenic Technology

- Display of the working of liquid-nitrogen and liquid-helium plants.
- Illustrative experiments such as :

- a. Display of liquid-nitrogen evaporation.
  - b. Experiments to show changes in physical properties of materials at cryogenic temperature.
  - c. Experiments showing the changes in resistance of metals at low temperatures.
  - d. Experiments demonstrating gas laws.
  - e. Demonstration of high temperature superconductivity.
- Video shows on Cryogenics, CCT activities, etc.
  - Brochures of CCT activities will be distributed to the visitors.

### Centre for High Energy Physics

Accelerators and Detectors  
 A working Cloud Chamber!  
 The Standard Model and Higgs Physics  
 The Physics of 'Interstellar'  
 General Relativity and Black Holes  
 String Theory  
 Quantum Computation  
 Movie shows and Poster presentations.  
 Movie timings: 10.00 -11.00 | 14.30 - 15.30.  
 16.00 -17.00: Ask a physicist.

### Department of Instrumentation and Applied Physics

- The department will host interesting demonstrations of fundamental and applied sciences in the areas of sensors, electronics, energy, nonlinear dynamics and control, nanotechnology, and photonics.
- Posters will be displayed along with the demonstrations and a running video on the department activities will be displayed. Laboratory tours will be provided to certain laboratories to interested visitors.

## Mathematics

### Poster Session

The interest of people in Mathematics has existed probably from the time human beings became capable of thinking. In this poster session, we give you glimpses of the history and development of mathematics through the times, the greatest minds who have worked on developing the subject, the awards and honours given for substantial contributions to the subject, and a lot more.

Timing : 9 a.m to 5 p.m

### Documentary/Screen-cast

The life of mathematicians and how the best of problems were solved has been a mystery to lay people. We shall be screening documentaries/ Screen-casts, which shall throw light on some of these problems.

Session 1 : 11 a.m to 12 p.m.

Session 2 : 3 p.m to 4.00 p.m.

### Treasure Hunt

Are you in for a challenge? If you are the type not shying away from challenges, this treasure hunt is precisely for you. We will be taking you through a journey involving some breathtaking puzzles and problems. Only the victors win the treasure.

Session 1 : 9.30 am to 12.30 p.m.

Session 2 : 2 p.m to 5 p.m.

### Games

The world of mathematics has been a constant source of new games. We shall be presenting you an opportunity to play some of these exciting games.

Timing : 9 a.m. to 12.30 p.m. and 2 p.m. to 5.00 p.m.

### Demonstrations

A picture is worth a thousand words and a demonstration is worth many more. We shall exhibit some of the essential mathematical ideas in tangible and catchy demonstrations.

Timing : 9a.m. to 12.30p.m. and 2p.m. to 5.00p.m.

## Physics

- A video presentation on the history of the Physics Department will be screened throughout the day.
- Experiments that illustrate various principles of physics will be demonstrated in the foyer of the New Physical Sciences Building.
- Short films and videos on basic principles of physics will be screened in one of the lecture halls throughout the day.

## CENTRAL FACILITIES

### Archives and Publication Cell

- Exhibition on ‘J. N. Tata: The Visionary Founder of IISc’ at Reception Hall, Main Building from February 26-28, 2015.
- IIScPress publications – display of IIScPress books and Sale of Coffee Table books, Medallion and Journal at Archives and Publications Cell.

### J R D Tata Memorial Library:


- Guided tour of the library to the visitors.
- PPT on Library, its collections and services.
- PPT of Library OPAC service, Institutional Repositories and e-Thesis.
- Demo on e-books and e-journals.

### Undergraduate Program

There will be demonstrations of experiments which illustrates basic principles of Physics, Chemistry, and Biology. Instruments used in teaching laboratories will be used for these experiments

<b>ADMINISTRATION</b>	2E	51	J R D Tata Memorial Library [Library]	3E	32
Admissions/ Students Section	2E	51	Management Studies [MS]	3E	56
Centre for Campus Management and Development [CCMD]	3D	17	Materials Engineering [Mat Eng]	3E	65
Finance and Accounts	2E	15	Materials Research Centre [MRC]	3E	41
Main Building	3D	36	Mathematics [MA]	3D	26
			Mechanical Engineering [ME]	4E	43
<b>ALUMNI ASSOCIATION</b>	2D	23	Microbiology & Cell Biology [MCB]	2C	5
			Molecular Biophysics Unit [MBU]	3D	29
			Molecular Reproduction Development & Genetics [MRDG]	2C	5
<b>AMENITIES</b>			NMR Research Centre [NMRRC]	2D	31
Faculty Club	2D	14	Organic Chemistry [OC]	3E	38
Gymkhana	1E	60	Physics [PHY]	2B,2C	3
Jaybee Travels	3E	78	Solid State & Structural Chemistry Unit [SSCU]	3E	40
Kendriya Vidyalaya	1D	20	Supercomputer Education & Research Centre [SERC]	3E,4E	42
Post Office [Science Institute]	2E	53	UG Programme	2E,35	2D,68
Swimming Pool	3D	64	International Center for Theoretical Sciences [ICTS]	2C7	2D68
Tata Memorial Science Club [TMSC]	2D	21			
Tata Book House	3E	78			
			<b>GUEST HOUSES</b>		
			Centenary Visitors House	3B	4
<b>AUDITORIUM</b>			Guest House	3C	10
Choksi Hall	2E	52	Hoysala Guest House	2D	67
Faculty Hall	3D	36	Jawahar Guest House [JNC]	1E	62
J N Tata Auditorium [NSSC]	3E	54			
Satish Dhawan Auditorium [CSIC]	3E	57			
			<b>HEALTH CENTRE</b>	2E	33
<b>BANKS &amp; ATMS</b>					
Canara Bank	3E	31	<b>HOSTEL/MESS COMPLEX</b>		
Canara Bank ATM	2E 31/	3E 77	C-Mess Dining	1D,2D	66
State Bank of India	2D	76	Ladies' Hostel	2D	19
State Bank of India ATM	2D 76/	3E 77	Men's Hostel	1D,2D	18
			<b>HOUSING</b>		
<b>RESTAURANTS</b>			Director's Bungalow	3C,3D	11
Nesara	2E	22	Registrar's Bungalow	2C,2D	63
Prakruti Veg.	3E	78	Staff Quarters – Arjuna Marg	2D	73
			Staff Quarters – B & D Type	2B,2C	72
<b>DEPARTMENTS/ CENTRES /UNITS</b>			Staff Quarters – C Type & New NE	3B,3C	71
Aerospace Engineering [AE]	2B	2	Staff Quarters – Yeshwantpur	1D,1E	8
Archives & Publications Cell [APC]	2D	80	Staff Quarters – D & E Type	3C	70
Biochemistry [BC]	2C	5	Staff Quarters – Duplex	3C	69
Central Animal Facility [CAF]	4D	30	Staff Quarters – NSQ	2D	75
Centre for Atmospheric & Oceanic Sciences [CAOS]	3D	27	Staff Quarters – S5Q	1D	74
Centre for Contemporary Studies [CCS]	2E	34	Janata Bazar	3C	83
Centre for Cryogenic Technology [CCT]	2D	68	Lecture Hall Complex	3E	50
Centre for Earth Sciences [CEaS]	3D	25	National Institute for Advanced Studies [NIAS]	2A,2B	1
Centre for Ecological Sciences [CES]	3D, 2C	61,5	Nursery	3D	16
Centre for High Energy Physics [CHEP]	2B,2C	3			
Centre for Nanoscience & Engineering [CeNSE]	2C	6	<b>OUTREACH</b>		
Centre for Neuroscience [CNS]	2C	7	Centre for Continuing Education [CCE]	3E	50
Centre for Product Design and Manufacturing [CPDM]	3E	49	Centre for Scientific & Industrial Consultancy [CSIC]	3E	57
Centre for Sustainable Technologies [CST]	3E	59	Graduate Aptitude Test in Engineering [GATE]	2E	35
Chemical Engineering [CE]	3D	39	Karnataka State Centre for Science and Technology [KSCTST]	3E	58
Civil Engineering [CIE]	3E,4E	44	Kishore Vaigyanik Protsahan Yojana [KVPLY]	3E	55
Computer Science & Automation [CSA]	3E	45	Robert Bosch Centre for Cyber Physical Systems	3E	82
Electrical Communication Engineering [ECE]	2C	9	Society for Innovation & Development [SID]	3E	58
Electrical Engineering [EE]	3E,4E	46	Telecom Centre	3D	81
Electronics Systems Engineering [ESE formerly CEDT]	3C	28			
Inorganic & Physical Chemistry [IPC]	3D	37			
Instrumentation and Applied Physics [IAP]	3E	48			

 Help Desk & Drinking Water

 Refreshments stalls

 Rest Areas

 Health Centre

