

Department Handbook

Electrical Engineering

2019-2020



IIT BOMBAY

DISCLAIMER

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1. About The Department

The Department of **Electrical Engineering (EE)** is one of the largest departments of IIT Bombay since its inception in 1958. The department has different academic programs with about 570 undergraduate and 730 postgraduate students. The department is equipped with the state of the art experimental and computational facilities for undertaking R & D and consultancy activities in various fields.

The EE department has a vibrant postgraduate program with strong focus on research and development. The number of postgraduate students in EE is more than that of the undergraduate students and the department attaches a lot of importance to its Masters' students as they constitute the backbone of research and development.

The department offers M.Tech in six research areas / specializations:

- Communications Engineering (EE1)
- Control and Computing (EE2)
- Power Electronics and Power Systems (EE3)
- Electronic Systems (EE5)
- Integrated Circuit and Systems (EE6)
- Solid State Devices (EE7)

Faculty members of the department are recipients of many distinguished awards like Shanti Swarup Bhatnagar Prize, Prof. K. Sreenivasan Memorial Award, Prof. SVC Aiya Memorial Award, Dr. Vikram Sarabhai Research Award, Ram Lal Wadhwa Award, INAE Young Engineer Award, Alexander von Humboldt Fellowship and many others.

Many faculty members are Editors of IEEE and other national and international journals. They are also Fellows of organizations like IEEE, IETE, INAE, IASc, NASI and INSA.



2. Message from H.O.D

Congratulations on your selection for the M.Tech/Ph.D. program in EE at IIT Bombay. As you know, the competition was very stiff and you are among the very few students who made it. We, the faculty members, staff and students extend a warm welcome to you.

As you are aware, ours is among the largest Electrical Engineering departments in the country with 64 faculty members and 1360 students, of which more than 55% are graduate student. We have a strong academic and research culture. We have state-of-the-art research laboratories in almost all areas of electrical engineering and a few centres of excellence. I am sure you will find this place academically rewarding.

Your department has a lot to give –just how much you take depends on one person-and that is you. You will face diverse temptations but you need to stay focused to achieve your goals. Do good work-you grow, and the department does too. It is a win-win situation. All in all, I assure you the time spent here will be the best years of your life!

Feel free to contact me if you need any help!

Baylon G Fernandes
Head Of Department
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3. Message from ISSA

Hello, Friends!

Congratulations on being selected to be a part of IIT Bombay and a cordial welcome to this new world. You must have realized by now that you are undergoing a phase of substantive transformation, and this might be daunting for some of you. The academic curriculum of this institution might seem different and perhaps new in comparison to what you were exposed to during your undergraduate education. To appease all the apprehensions that you have, the Post Graduate Academic Council (PGAC) along with the team of (ISCP) will try to address all the queries that you will be having during your entire Master's Programme.

IIT Bombay is known to offer the students a very dynamic environment and a reasonable amount of freedom so that the individual can pursue their heart's desire. Be it academics, sports, cultural, or any other activity, you will be finding myriad opportunities to build up your personality and add value to your life. I am hoping that you will be able to explore the unending map of possibilities, push your boundaries, break all the walls and bring out the best version of yourself by the time you finish your Degree Programme.

I wish you good luck and hope to see you around. We are looking forward to interacting with you.



Himanshu Bishwash

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4. Message from ISCP

Dear New Entrants,

We take this opportunity to welcome you to one of the most prestigious institutes of the country. We congratulate you on having achieved this feat. With our personal experiences we can vouch that your stay here at the campus would be exciting. From potential leopard sightings to potential bumping into movie stars all awaits you. Wonderful all night banters, amazing wing cultures and mad birthday celebrations are a few things that you will carry from here when you leave, obviously along with the degree. You will also become a part of a culture where people want to perfect their craft and thus work day in and day out at it. Hence there will be great opportunities to learn both inside as well as outside the classrooms. Thus it is a whole new cosmos to enter and with excitements it might have a few challenges too. We at [Institute Students Companion Program \(ISCP\)](#) work towards providing you with the hacks to take care of these challenges and have a happy stay with the IIT Bombay family.

The primary objective of the Companion Programme under which the ISCP team works is to build a relationship of trust and comfort between the final year students and the incoming students of the PG programmes. Once this is established life at campus becomes so much easier than what it would have been without it. The knowledge and the experience that the senior batch has gained with their stay at the campus makes the surroundings so much you that the transition becomes smooth. From the lingo on campus to the terminology in the classroom, from the grading to the syllabus, from the profile to placements, from tagda franky to bhindi rice all becomes ingrained so much as if it were you always.

On campus you might always be short on time as there is so much to do and when there is so much to do time flies at sonic speeds. Managing the academics along with extra curricular activities and your social life may seem a daunting task at times. The ISCP programme thus provides you a Student Companion with whom you can share your academic and non-academic problems. These are self-motivated volunteers who want to genuinely help you in tough situation as a giving back act of what they received from the programme.

You can look up to the team for any initial information in things that you are venturing out at be it academics or extra-curriculars, any academic or non-academic issues that you are facing, any sort of support, any requirement that you wanna raise up as a part of the student community and last but certainly not the least just for normal interaction because that is all the programme holds at its core.

Come be a part of this immense pool of wisdom and make it more happening and diverse.

What to expect from a Student Companion:

- Initial information about the campus, courses, academics and extracurricular activities.
- Support in case of any problem or difficulty.
- Organization of various academic and non-academic activities for student's development.
- Continuous interaction and feedback from students on their needs and requirements.

In short, this is a program by the PG students of IIT Bombay for the new entrants to ensure their easy adaptation to IIT Bombay culture and assist them in an overall development through utilization of all the available resources at IIT Bombay. Let the learning begin. Feel free to contact us anytime!

Mail to: iscp@iitb.ac.in

Overall Coordinators

Institute Student Companion Programme (2019-20)



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5. Message from Department Coordinators

Hello Junta!!

Congratulations on becoming a part of the IIT Bombay family. We are delighted to welcome you to one of the best departments of the premier institutes in the world. This institute will provide you with an engaging, vibrant, and inclusive community of learners. From your first day to the last, you will be amazed by the array of extraordinary faculties, outstanding facilities and helpful staff in our department which together provides an excellent biosphere for learning.

However, the institute's greatest and most enduring strength is the balance between the quality of education and the extra-curricular activities. It is assured that you will get a lot of opportunities on the academic as well as extra-curricular front to acquire new skills, nurture and enhance your dormant talents and build competence to take on the world.

Once again, a warm welcome from all the seniors. Have a wonderful stay at IIT Bombay!!!



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6. Message from IMR

Dear Freshmen,

On behalf of all the Master's students at IIT Bombay, it is my honour to welcome you all here. Congratulations on having made it to one of the premier technical institutes of the country.

You are now a part of the IITB PG community and there are an exhaustive number of services and facilities available to ensure a fruitful educative experience. As post graduate students, you have already been exposed to university level education. While you will delve deeper into understanding your area of interest better, I urge you to explore more. There are several student led bodies on campus focusing on development of skills, sports and extracurricular activities such as dance, drama, music, etc. Your experience will be what you make of it, and your opportunities will be limited only by the limits you place on yourself. Utilize the opportunities to the best of your ability. Along with academics, do explore and make the most of the excellent facilities the institute has to offer.

As the Institute Masters Representative, my team and I, aim to address your grievances and help you to the best of our abilities. Supporting you in your academic endeavours is our foremost priority and we will strive to improve the IITB experience in all the ways we can. On this note, I, once again, welcome you to IIT Bombay and wish you every success in your future endeavours.!

Department Coordinators ISCP
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7. LAB Facilities



8. Faculty Members

8.1 EE1: Communication and Signal Processing

Faculty	Office	Research Interests
Prof. Prasanna Chopardkar	•	Resource Allocation and scheduling in wired/wireless networks, Optimization and control of stochastic systems, Distributed systems and algorithms
Prof. Subhasis Chaudhuri	•	Multimedia, Computer Vision, Image Processing, Pattern Recognition, Biomedical Signal Processing, Computational Haptics
Prof. Vikram M. Gadre	•	Communication and signal processing, with emphasis on multiresolution and multi-rate signal processing, especially wavelets and filter banks: theory and applications
Prof. Shalabh Gupta	•	High-speed CMOS analog/RF/mm-wave integrated circuits and systems, Optical fiber communication systems, Microwave photonics / ultrafast data conversion using photonics, Beam forming antenna systems, Signal processing for these systems
Prof. Joseph John	•	Analog and Digital Circuits, Optical Fiber Communications, Indoor Optical Wireless Systems, Modern Electronic Systems and Instrumentation
Prof. Abhay Karandikar	•	Control and Performance Modeling of Wireless Networks, Quality of Service and Resource Allocation in Wired/Wireless Networks, Next Generation Wireless Network Protocols (related to 802.16m, LTE-Advanced and 4G Standards), Co-operative Relay and Self Organizing Network, Carrier Ethernet and Mobile Backhaul, Rural Wireless Network
Prof. Gaurav S. Kasbekar	•	Modeling, design and analysis of wireless networks, Game theoretic and economic aspects of spectrum allocation, Cognitive radio networks, Lifetime and coverage problems in wireless sensor networks
Prof. Animesh Kumar	•	Signal processing, communication systems, applied statistics, SRAM reliability models

Prof. Girish Kumar	•	Microstrip antennas and arrays, Broadband antennas, Microwave integrated circuits, EMI/ EMC, RF communication circuits
Prof. D. Manjunath	•	Computer and Communication Network Protocols, Systems and Algorithms Performance Modeling, Queueing Theory and Simulation, Stochastic Systems
Prof. Shabbir Merchant	•	Signal Processing, Adaptive Signal Processing
Prof. Prem C. Pandey	•	Speech and Signal Processing, Biomedical Signal Processing and Instrumentation, Electronic Instrumentation, Embedded Electronic System Design
Prof. Sibi Raj B Pillai	•	Fundamental Limits of Communication Systems, Information Theory and its applications, Compressed Sensing, Stochastic Modeling, Resource Allocation Problems, Interference Channels, Relaying and Broadcasting
Prof. Bikash Kumar Dey	•	Information Theory, Coding Theory, Wireless communication.
Prof. Preeti Rao	•	Speech and Audio Signal Processing, Music Information Retrieval
Prof. Rajbabu Velmurugan	•	Statistical and digital signal processing, Signal processing system design, Particle filter applications, Target tracking systems
Prof. Saravanan Vijayakumaran	•	Signal Processing for Communications, Parallel Simulation Algorithms
Prof. Nikhil Karamchandani	•	Information Theory, Networks, Communications, Distributed Computation, Cyber-Physical Systems.
Prof. Kumar Appaiah	•	Signal processing for communication, fibre optics, wireless communication.
Prof. Jaykrishnan U. Nair	•	Queueing theory, Communication networks, Heavy tails.
Prof. Manoj Gopalkrishnan	•	Algorithms in nature, Information processing in networks, Reaction networks, Neural networks, Evolution, Game theory, Deep learning, Information geometry, Thermodynamics of information, Quantum Information
Prof. Amit Sethi	•	Computational pathology, Medical image analysis, Deep learning, Machine learning, Computer vision, Image processing, Signal processing
Prof. Sharayu Moharir	•	Modeling and the design of scalable resource allocation algorithms for large networks, including content delivery networks, communication networks and crowd-sourcing.

8.2 EE2: Control and Computing

Faculty	Office	Research Interests
Prof. Madhu N. Belur	Room 237A, Second floor, main EE building, Department of Electrical Engineering	Control theory, dissipative systems, graph theoretic methods, decentralized control, behavioral theory control, Fault diagnosis
Prof. Vivek Shripad Borkar	EA202, EE Annexe, Department of Electrical Engineering	Stochastic Control, Learning Control Theory, Random Processes
Prof. Debraj Chakraborty	New Office Complex, 1st floor EE (next to PC Lab), Department of Electrical Engineering	Optimal Control, Linear Systems, Optimization, Differential Games, Game Theory
Prof. Prasanna Chopardkar	Room 231B, Second floor, main EE building, Department of Electrical Engineering	Resource Allocation and scheduling in wired/wireless networks, Optimization and control of stochastic systems, Distributed systems and algorithms
Prof. Subhasis Chaudhuri	Room 231A, Second floor, main EE building, Department of Electrical Engineering	Multimedia, Computer Vision, Image Processing, Pattern Recognition, Biomedical Signal Processing, Computational Haptics
Prof. Shrikrishna V. Kulkarni	211-C, Department of Electrical Engineering	Transformers: Design, Analysis and Diagnostics, Electromagnetic and Coupled Field Computations, Power Engineering: Distributed Generation, High Voltage Engineering: Insulation Design/Diagnostics
Prof. Debasattam Pal	Room No 231-D 2nd Floor EE Main Building	Distributed parameter systems, algebraic analysis, optimal control.
Prof. Virendra R. Sule	New Office Complex, 1st floor EE (next to PC Lab), Department of Electrical Engineering	Cryptology: Block and stream ciphers, efficient arithmetic for public key cryptography, algebraic cryptanalysis, Dynamical systems and feedback control theory
Prof. Dwaipayan Mukherjee	Room no EE 214D, 2nd floor EE Main Building	Multi-agent Systems, Consensus, Formation Control, Control Theory and Robust Control
Prof. Harish K. Pillai	231-D, EE Main Building 231-D, EE Main Building	Control theory, Systems theory, Multidimensional systems, Numerical and computational methods, Coding theory, Optimization techniques, Electromagnetics

8.3 EE3: Power Electronics and Power Systems

Faculty	Office	Research Interests
Prof. Vivek Agarwal	•	Power conversion: New converter topologies, High frequency link power conversion, ZCS-ZVS configurations, Switched Capacitor DCDC converters, Power quality issues: Power factor correction techniques, Static VAR compensation, Active filters
Prof. Mukul C. Chanderkar	•	Power Electronics, Power quality, Static Compensation, Motor Drives
Prof. Kishore Chatterjee	•	Utility friendly converter topologies, Power Factor Correction techniques, STATCOM, Switched Mode Rectifiers, Electronic Ballast
Prof. Baylon G. Fernandes	•	Inverter topologies for VAR compensation, Power electronic interface for non-conventional energy sources, Permanent magnet machines for wind power generation, Switched reluctance machines for electric vehicle application
Prof. Shrikrishna A. Kharade	•	Deregulation in Power Industry: optimal bidding, and congestion management, Object Oriented Power System Analysis, Controlled series compensation using SSSC, Harmonic Distortion in Distribution systems, Design and Operation of small tidal power plant, Modeling and Design of transformer
Prof. Shrikrishna V. Kulkarni	•	Transformers: Design, Analysis and Diagnostics, Electromagnetic and Coupled Field Computations, Power Engineering: Distributed Generation, High Voltage Engineering: Insulation Design/Diagnostics
Prof. Anil Kulkarni	•	Power System Dynamics and Control, Application of Power Electronics to Power Systems, Flexible AC Transmission Systems
Prof. Prem C. Pandey	•	Speech and Signal Processing, Biomedical Signal Processing and Instrumentation, Electronic Instrumentation, Embedded Electronic System Design
Prof. Anshuman Shukla	•	Multilevel converters and Modulation and control of power electronic converters, Power electronics applications in power systems (FACTS, HVDC, custom power devices, etc.), Renewable energies and Energy storage, Control of electric drives, Hybrid and solid-state circuit breakers and current limiters
Prof. Shreevardhan A. Soman	•	Power system analysis, computation and economics, Power system protection
Prof. Anupama Kowli	•	Power System Planning, Operations and Control, Electricity Markets and Economics of Electric Power Grids, Demand-side Management, Demand Response and Flexible Loads, Smart Grids and its Enabling Technologies and Mechanisms, Policy and Regulation for Electric Power Grids.
Prof. Himanshu J. Bahirat	•	Renewable Energy Sources; Grid Integration of Renewable Energy; Offshore Wind Energy; Transients in Power Systems; DC Power Systems; DC Wind Farms; Multi-terminal DC Networks; Circuit Breakers; Power Electronics.

8.4 EE5: Electronic Systems

Faculty	Office	Research Interests
Prof. Madhav P. Desai	•	VLSI Circuits and Systems, VLSI design and design automation, Graph theory and combinatorics.
Prof. Siddhartha P. Duttagupta	•	Microelectronics, Micro/Nano Sensor Technology Optimization and Application, Sensor Integrated Electronic Circuits and Systems- Design
Prof. Vikram M. Gadre	•	Communication and signal processing, with emphasis on multiresolution and multi-rate signal processing, especially wavelets and filter banks: theory and applications
Prof. Shalabh Gupta	•	High-speed CMOS analog/RF/mm-wave integrated circuits and systems, Optical fiber communication systems, Microwave photonics / ultrafast data conversion using photonics , Beam forming antenna systems, Signal processing for these systems
Prof. Joseph John	•	Analog and Digital Circuits, Optical Fiber Communications, Indoor Optical Wireless Systems, Modern Electronic Systems and Instrumentation
Prof. Shabbir Merchant	•	Signal Processing, Adaptive Signal Processing
Prof. Prem C. Pandey	*	Speech and Signal Processing, Biomedical Signal Processing and Instrumentation, Electronic Instrumentation, Embedded Electronic System Design
Prof. Sachin Patkar	•	Combinatorial optimization Matroid Theory Submodular Functions Linear/Integer programming Network Flows High Performance Computing FPGA-based accelerated computing GPU based acceleration High Performance Circuit Simulation Algorithms Design and Analysis
Prof. Preeti Rao	•	Speech and Audio Signal Processing, Music Information Retrieval
Prof. Dinesh K. Sharma	•	MOS device modeling VLSI design and technology. Microelectronics - technology and device characterization mixed signal design
Prof. Virendra Singh	•	Computer Architecture Processor architecture and micro-architecture VLSI Testing Fault-tolerant computing Robust design and architectures Self-healing system design SoC/NoC design and test Post Silicon Debug High level synthesis Formal verification.
Prof. Maryam Shojaei Baghini	•	Analog/Mixed-signal VLSI design and test (SoC, LV, LP, LE, Bio-medical/Biosensors, Bio-inspired circuits and systems, I/O, highly precise circuits and systems, instrumentation, energy harvesting and many more applications), Specific technologies and performance-optimized Analog/mixed-signal/RF circuits and systems for healthcare applications.
Prof. Rajesh H. Zele	•	RF, Analog and Mixed-Signal Circuits for Communication Applications.
Prof. Prof. Siddharth Talur	•	RF MEMS, Photonics, Opto-Mechanics, Micro- and Nano-fabrication, Sensor Systems.

8.5 EE6: Integrated Circuits

8.6 EE7: Solid State Devices



9. Department Activities

9.1 Student's Reading Group (SRG):

The SS Students' Reading Group (SRG) was started in 2015 as an interactive peer review based platform to share knowledge and research issues from various domains of Electrical Engineering. The 5 specializations of EE department are divided into 4 clusters and researchers from every cluster present and discuss their work with their peers in the talks that are conducted throughout the semester. The sessions are entirely student run, giving the speakers a unique opportunity to present their ideas freely and receive reviews from the students alone.

New phase of SRG begins every semester. A 5 minute research challenge (5MR) is conducted in each phase where the participants get 5 minutes to put forward their research ideas. A panel of faculty members decides the best speakers who are then awarded. The 5MR challenge is aimed at improving the technical communication skills of the student.

9.2 Department Academic Assistance Program (DAAP):

Department Academic Assistance Program (DAAP) is a helping hand to the students who are facing challenges in their academics. A student can face academic related issues due to various reasons, like unacquaintance with highly competitive environment at IIT, managing the academic workload and assignment timelines, unclear about field of interest etc. We believe that a little help from an experienced friend can make a difference. We provide one to one assistance through regular meetings. Assistants are students who have already excelled in the concerned field/course. They can complement classroom learning by providing techniques to manage course content effectively and sharing the resources. Since the inception of this program we have observed an improvement in the performance of more than 15 students. DAAP is creating a better environment for knowledge sharing and learning with joy!

9.3 IEEE Students Chapter:

The IIT Bombay IEEE Students' Chapter is a student body that strives to promote excellence in various fields of electrical engineering. The organization is involved in organizing talks, workshops and other activities to help students obtain new skills in their fields of interest.

9.4 Bridge Course:

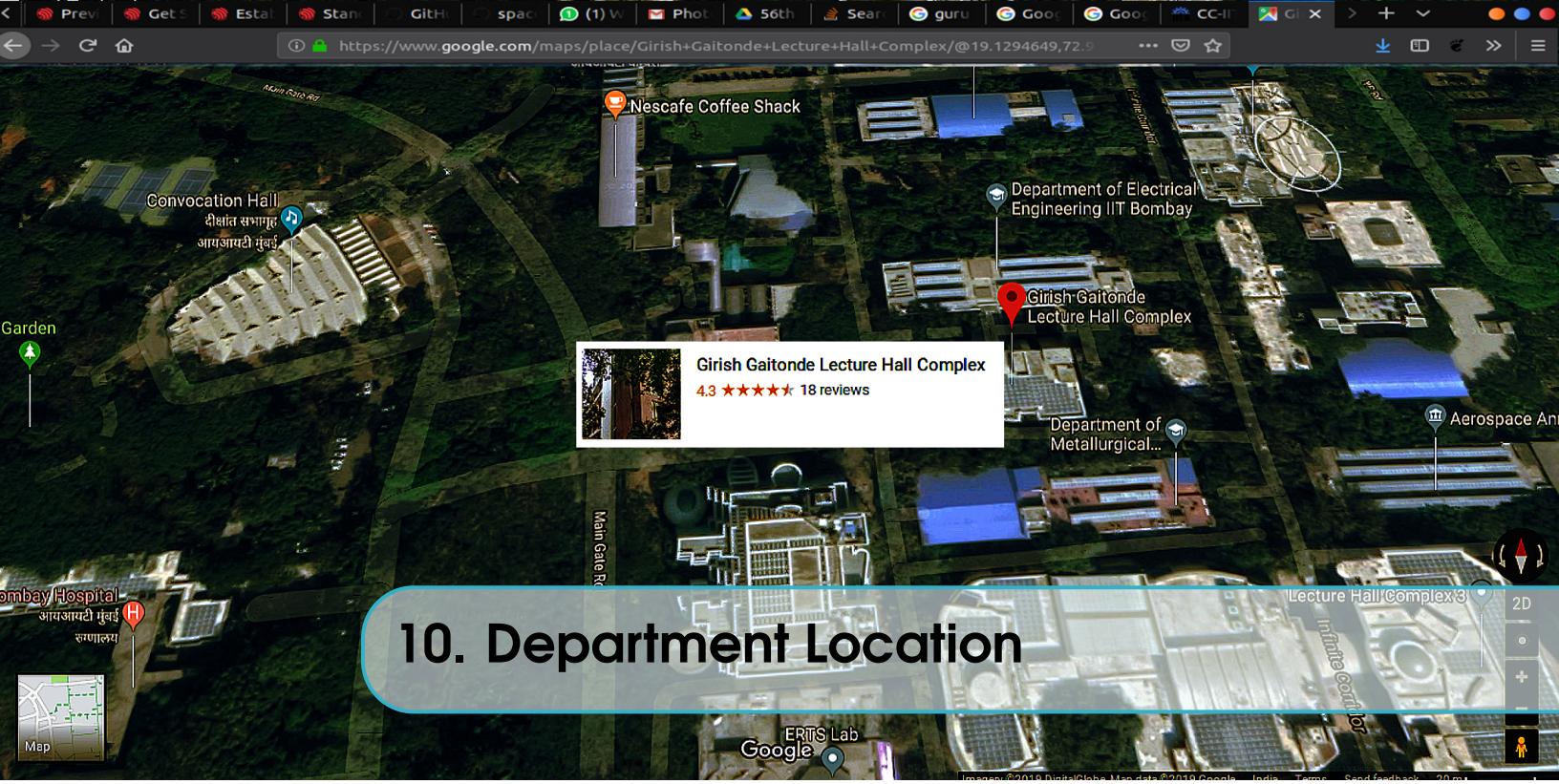
The Bridge Course, starting from 2016 is an initiative by the department to help new students of the M. Tech. and PhD programs which makes them comfortable with their coursework. The Bridge course focuses on revising essential prerequisites and developing analytical skill. It is felt that these two essential skills will help students to work on their courses more effectively.

9.5 AAVRITI (Department Techfest):

It is the annual research and technological festival of Electrical Engineering department of IIT Bombay. AAVRITI, with the motto of promoting technology, creativity, intelligence and sheer innovation, and to enthral the magical impact of electronics that it has on the human civilization over the years aims to bridge the gap between industry & academia by encouraging exchange of ideas and providing opportunities for technical interactions.

It includes workshops on most advanced and buzzing technologies, lecture series by experts of particular fields as well as competitions and hackathons. This gives students a chance to expand their horizons and learn beyond engineering syllabus.

Other department activities include Teacher's day, Sports day, Department trip, Convocation ceremony, Valedictory function and so on.



10. Department Location

Our department is large in terms of real estate. Our department is spread over various buildings:

1. EE Building:

Behind the SJMSOM building. It Resides PC lab, WEL, PEPS labs, Signal processing and instrumentation lab.

2. Girish Gaitonde Building:

Referred as GG Building mainly. Situated behind SJMSOM and connected to EE building. Resides EE office, Class rooms, VLSI design lab, Department Library, Embedded Systems Lab.

3. Annex Building:

Situated across infinity corridor behind EE building. It resides Fabrication lab facilities.

4. CEN Building:

Connected to annex building. Resides characterization labs. Faculty offices.



11. Discovering what to do...

IIT Bombay provides a multitude of options for discovering yourself. Engage and explore . All the best

R explore more at [Clubs at IITB](#)

12. Department Student Representatives

12.1 Department placement coordinators



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Saurabh Suri
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Jay Adhadhuk
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12.2 Company coordinators



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Jay Adhadhuk
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12.3 EE Student Association

Posts relevant to a fresher Mtech student are mentioned here. For more information about EESA visit [EESA website](#)

**SRG Overall-Cordinator**

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**General Secretary**

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**Cultural Secretary**

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**12.4 EE ISCP Team**



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12.4.1 Links you should check out

Insti App Know your Campus Wish you all the best, ISCP Team