ME (Communication & Networks) Programme @IISc

Indian Institute of Science, Bangalore

The ECE Department

The ECE Department is recognized by UGC as a Center for Advanced Studies. It has a rich heritage and a strong reputation for R&D activities in the areas of Communications, Signal Processing, Microelectronics and RF/Photonics.

The Program

ME Communication and Networks is a flagship graduate program offered by the ECE department. It consists of two parts: a solid foundational training consisting of coursework on topics such as Communications and Networking, Information and Coding Theory, Microelectronics, Microwaves, Photonics, Signal Processing, Optical Communication, and Wireless Communication; followed by a one-year research-oriented project. Students also have access to state-of-the-art experimental facilities. ME projects often lead to peer-reviewed publications in premier conferences/journals.

Eligibility

Bachelors’ degree in Engineering and a valid GATE score in EC paper. Selection is purely based on GATE score. More information at:
http://admissions.iisc.ernet.in,
http://www.ece.iisc.ernet.in

Future Prospects

The well-trained ME(CN) students have a variety of options to choose from, starting from jobs in the high-tech industry (Broadcom, Imagination Technologies, Ittiam, Samsung, Seagate, Siemens, Texas Instruments, Qualcomm, DRDO, etc.) to pursuing a PhD followed by an academic career in the top universities in India and abroad.

OVERALL STRUCTURE

A new feature of the programme is that it gives the students the option to graduate with one of 4 “Minors”:
(i) Minor in Integrated Circuits & Systems,
(ii) Minor in Photonics,
(iii) Minor in Radio-Frequency Systems
(iv) Minor in Signal Processing

The selection of a Minor is not however, mandatory. A student qualifies for a Minor if he/she takes at least 3 courses belonging to a basket of courses specific to each area. The selection of a minor takes place during the course of the programme by the student in consultation with his Faculty Advisor. It is understood that the default Major of all students enrolled in the programme is Communication & Networks. A student who does not opt for a Minor, can either choose to specialize further in the Major by taking 3 additional courses in the area of Communication & Networks or else choosing amongst the many electives available (in consultation with the student’s Faculty Advisor).

Contact

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