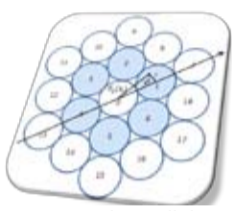# M.Tech Programme in
COMMUNICATION & NETWORKS
@IISc

ELECTRICAL COMMUNICATION ENGINEERING (ECE) INDIAN INSTITUTE OF SCIENCE, BANGALORE
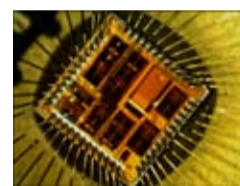

A wireless cellular system model

A prototype multiantenna system

A serpentine traveling wave tube simulation

An integrated sub-10 GHz wideband RF receiver

Electrical Communication Engineering (ECE)

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

M.Tech Communication and Networks is a flagship graduate program offered by the ECE department. It consists of two parts: a solid foundational training consisting of course-work 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. M.Tech 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 M.Tech(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 his/her 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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