

Computer Technology: Program Details, Project-vs-Course-based Options, Streams

A Project-based M.Tech versus a Course-Based M.Tech: who decides, and when?

The decision is to be taken at the end of the first year

Who decides this?

By the end of the second semester, a student will have a some flavour of research with the Minor Project. Depending on the performance of the student in the M.Tech Minor Project, and based on the recommendation of the corresponding M.Tech Minor Project evaluation committee, a student shall opt for the project-based M.Tech, or a Course-based M.Tech. A minor difference in the two is that in the project-based stream, only 3 OE credits are possible (in tune with a more focussed plan in a particular stream/direction), whereas in a course-based one, 6 OE credits are to be taken.

Streams and `Essential Electives`

Stream	Course Numbers and Titles	
CIS	ELL784: Introduction to Machine Learning	ELL786: Multimedia Systems
EIS	ELL784: Introduction to Machine Learning	ELL787: Embedded Systems and Applications
CCN	ELL785: Computer Communication Networks	ELL786: Multimedia Systems
MIP	ELL786: Multimedia Systems	ELL787: Embedded Systems and Applications
IT	ELL784: Introduction to Machine Learning	ELL785: Computer Communication Networks

Who decides the stream, and when?

The student, based on his/her preference of an area.

This is decided at the beginning of the course i.e., in the registration for the first semester itself.

What if interests change, during the course of the M.Tech programme?

Most of the streams have a good amount of overlap, so this should not be much of an issue

What if a student does not take courses from a particular stream?

The basic purpose behind the concept of streams is to channelise the interests of a student in a particular direction, and offer suitable courses, whether he/she is interested in a project-based M.Tech, or a course-based M.Tech. The former is important for a research-oriented career (higher studies, research-based industry job), where experience with a stream of courses indicated familiarity with a general area, and at the same time, the program has enough of general courses to make the student familiar with basic concepts of a Master's level program in Computer Technology. The same is true for an R&D or primarily development-focussed industry job, for a course-based M.Tech option. A student could end up taking an assortment of courses from different streams, but that is not desirable from his/her career-point of view!

