C E R T I F I C A T E

We hereby certify that

Mr Ivan Enrique Ramos CALDERON, born on the 2nd of September 1950, of Colombia nationality,

has attended and passed with success the final examination of the postgraduated course in "INFORMATIQUE TECHNIQUE". This twelve months' postgraduated course is considered to be equivalent to a programm of a Master of Sciences'degree.

The Swiss academic system does not know the academic level of "Master of Sciences" (M.Sc') as the american one, since no title exists between the engineer's diploma and the Ph'D.

The postgraduate course in "INFORMATIQUE TECHNIQUE" can only be attended by incumbents of a diploma. Therefore, the certificate for postgraduate studies of the EPFL is considered to be equivalent to a Master of Sciences

Lausanne, 15h. January 1981.

ECOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE
Service Académique