



**Person in charge**

Norberto Domínguez Ramírez

[ndominguez@ipn.mx](mailto:ndominguez@ipn.mx) ;

[norberto\\_dominguez\\_mx@yahoo.com.mx](mailto:norberto_dominguez_mx@yahoo.com.mx)

**Master degree courses concerned**

07A5002 Finite Element Method

07A4998 Nonlinear Behavior and Response of Structures and Materials

07A5009 Special Topics of Structures

**Fields of interest**

- General principles of FEM
- Numerical modelling of complex problems for the different civil engineering fields (structural, hydraulic, geotechnical, environmental engineering)
- Development and application of new algorithms for material nonlinear behavior in the framework of doctoral studies

**General Motivation**

- To expand the use and research of the finite element method to solve complex problems of Civil Engineering field using open-source codes, and
- To participate as active member into the PRONET network in order to spread the use of the open source codes in Latin America countries.

**Recent Projects**

- Nonlinear modelling of a military historical building placed in Mexico City, subjected to earthquake and sinking effects
- Nonlinear modelling of a masonry colonial building settled in clay soil
- Nonlinear modelling of concrete structural elements and connections subjected to fire and dynamical effects
- Other applications

**IT configuration**

SUSE Linux release 13.x (in some cases embedded in Virtual Box for Windows 7 & 8.1)

---

**Dr. Norberto Domínguez Ramírez**

**Chief of the SEPI ESIA-UZ IPN**

Av. Juan de Dios Bátiz s/n, Edificio de Posgrado e Investigación,  
Unidad Profesional "Adolfo López Mateos", Col. Zacatenco. 07300,  
Mexico City (Ciudad de Mexico), MEXICO

Tel. +52.55.57.29.60.00 Ext. 53120/46183

[jefat.sepi.esiaz@ipn.mx](mailto:jefat.sepi.esiaz@ipn.mx) ; [jefatura.sepi.esiaz@gmail.com](mailto:jefatura.sepi.esiaz@gmail.com)

[www.sepi.esiaz.ipn.mx](http://www.sepi.esiaz.ipn.mx)

