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**QUICK SCAN SURVEY**  
**PART A: INSTITUTIONAL DATA**



*Developing Information and Communication Technology (ICT) services  
for institutes of higher education and research.*

**QUESTIONNAIRE**

**January 2000**



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**0. General Information**

- 0.1** name of the university: **Universidad Nacional de Ingeniería, UNI**
- 0.2** address: **Managua, P.O. BOX 5595**
- 0.3** country: **Nicaragua**
- 0.4** contact person:  
**Ing. Mario Caldera Alfaro - Rector**  
**Ing. Marcia Vargas Hernández – Vice Rectora**  
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**1. Organizational structure: management, administration and service support**

**1.1** Using an organization chart, please describe the structure of the university management, administrative and service support system.

See Last Page for the chart.

University council is the maximum organ of government in our University under law 89 of Republic Constitution, Rector is the president and he is elected for the electoral assembly.

There are six Faculties:

- Faculty of Technology of Construction (FTC)
- Faculty of Technology of Industry (FTI)
- Faculty of Chemical Engineering (FIQ)
- Faculty of Architecture (F.Arq)
- Faculty of System and science F.C.yS.
- Faculty of electronic, Electrical and Computer Engineering (FEC)

There are some support areas such as:

Fundation (services Units for External consultancy it just begininig to work)

- Publish and divulgation.

IES ( Self sustanaible programme for Engineering teaching totally pay by students).

**1.2** Number of staff working within the administrative departments:

PRESIDENT	4
VICE PRESIDENT	2
PUBLISH AND DIVULGATION	3
GENERAL SECRETARY	1
LEGAL CONSULTANTS OFFICE	1
PUBLICATIONS	2
REGISTER DIRECTION	5
ADMINISTRATIVE VICE RECTORY	2
FINANCE DIVISION	19
HUMAN RESOURCE DIVISION	12
ADMINISTRATIVE DIVISION	167
ACADEMIC VICE RECTORY	2
FACULTY OF TECHNOLOGY OF CONSTRUCTION	17
FACULTY OF TECHNOLOGY OF INDUSTRY	17
FACULTY OF SYSTEM AND SCIENCE	14
FACULTY OF CHEMICAL ENGINEERING	19
FACULTY OF ELECTRONIC, ELECTRICAL AND COMPUTER ENGINEERING	13
FACULTY OF ARCHITECTURE	8
RESEARCH AND DEVELOPMENT VICE RECTORY	2
RESEARCH UNITS	10
POSTGRADE DIRECTION	3
<b>Total</b>	<b>333</b>

**1.3** Number of staff working within the service support sector:

<b>STUDENT ATTENTION</b>	<b>5</b>
<b>SPORTS</b>	<b>3</b>
<b>CULTURE</b>	<b>5</b>
<b>SCOLARSHIP</b>	<b>5</b>
<b>LIBRARY</b>	<b>15</b>
<b>ACADEMIC DIRECTION</b>	<b><u>4</u></b>
<b>Total</b>	<b>37</b>

**2. Organizational structure: Education and research**

**2.1** Total number of academic staff (estimate) employed by the university:

**365**

**2.2** Total number of students (estimate):

**9,000**

**2.3** Number of faculties:

**There are six faculties:**

**Faculty of Technology of Construction**

**Faculty of Technology of Industry**

**Faculty of Chemical Engineering**

**Faculty of Architecture**

**Faculty of System and science**

**Faculty of electronic, Electrical and Computer Engineering**

**2.4** Names of faculties including number of staff (estimate) and students:

**Faculty of Technology of Construction**

<b>Departments</b>	<b># staff</b>
<b>Department of Construction</b>	<b>12</b>
<b>Department of draw</b>	<b>5</b>
<b>Department of Structure</b>	<b>7</b>
<b>Department of Hydraulic</b>	<b>7</b>
<b>Department of Agriculture Machine</b>	<b>2</b>
<b>Department of Transportation Route</b>	<b>10</b>
<b>Department of Irrigation and drainage</b>	<b>9</b>
<b>Academic Administration</b>	<b><u>3</u></b>
<b>Total staff</b>	<b>55</b>

### Faculty of Technology of Industry

Departments	# staff
Department of Research and Development	1
Department of Energetic	6
Department of Economical Engineering	7
Department of Mechanics Theoretical and applied	7
Department of Optimisation	8
Department of Production	8
Department of Technique and Research	8
Service Unit of Mechanics	1
Academic Administration	<u>3</u>
<b>Total staff</b>	<b>44</b>

### Faculty of Chemical Engineering

Departments	# staff
Department Of Unit operation and Process Engineering	7
Department of Research	1
Department of Chemical	19
Programme of Research and development Of Environmental Field	11
Academic Administration	<u>3</u>
<b>Total Staff</b>	<b>41</b>

### Faculty of Architecture

Departments	# docents
Department of Design and Expression	1
Department of Research and Development	2
Department of Technology	8
Department of Planning and Theory	8
Academic Administration	<u>3</u>
<b>Total Staff</b>	<b>36</b>

### Faculty of System and science

Departments	# staff
Department of Social and Science	12
Department of Systems and Science	8
Department of Physics	19
Department of Language	13
Department of Mathematics	27
Academic Administration	<u>3</u>
<b>Total Staff</b>	<b>82</b>

**Faculty of electronic, Electrical and Computer Engineering**

<b>Departments</b>	<b># staff</b>
Department of Architecture System and applications	10
Department of Electrical	19
Department of Electronic	15
Department of Language and Simulation	17
Department of Maintenance	3
Department of Digital System and Telecommunications.	14
Academic Administration	<u>3</u>
<b>Total Staff</b>	<b>82</b>

There are around 25 members of the staff working in University Management

**2.5** Number of research institutes:

There are six research programmes:

**2.6** Names of research institutes including number of staff: 6 Research Programmes.

- Programme of Research and teaching of environmental Field  
Research Group: - Project of pure air
- Project of Solid Waste (Sanitary Land Fill)
- Project of Drinking Water
- Project of Residual Wasterwater treatment  
Number de employee = 10
- Programme of Alternative Energy  
Bio diesel  
Eolic Energy  
Solar Energy  
Number of employees = 7
- Programme of Research of Environmental Field with emphasis in Sanitary Engineering.  
Number of employees = 11
- Programme of Research in Chemical Engineering with emphasis in Drying and Process Engineering.  
Number of Employees = 7
- Programme of Research in Electronic and Computer Engineering with emphasis in Date communications, control system of Industrial Process and Applied Electronic.  
Number of Employees = 5
- Programme of territorial urban environmental studies of architecture Faculty.  
Number of employees = 8

**2.7** Number of schools (if any):

In the UNI we have only Faculties with career or Programmes. For each one there is a career coordinator.

**2.8** Names of schools, including number of staff and number of students:

<b>Faculty of Technology of Construction</b>	
Career of Civil Engineering	975 Students
Career of Agricultural Engineering	400 Students

<b>Faculty of Technology of Industry</b>	
<b>Career of Industrial Engineering</b>	<b>800 Students</b>
<b>Career of Mechanical Engineering</b>	<b>525 Students</b>
<b>Faculty of System and Science</b>	
<b>Career of System and Science</b>	<b>500 Students</b>
<b>Faculty of Chemical Engineering</b>	
<b>Career of Chemical Engineering</b>	<b>550 Students</b>
<b>Faculty of Electronic and Computer Engineering</b>	
<b>Career of Electronic Engineering</b>	<b>800 Students</b>
<b>Career of Electrical Engineering</b>	<b>750 Students</b>
<b>Career of Computer Engineering</b>	<b>575 Students</b>
<b>Faculty of Architecture</b>	
<b>Career of Architecture</b>	<b>525 Students</b>
<b>Pre- University year</b>	<b>1500 Students</b>

With respect to number of staff is described in 2.4

### 3. **Physical accommodation**

Number of campuses of the university:

**Campus Simón Bolívar**

**Campus Pedro Araúz Palacios**

3.1 In case of more than one campus, distances between the campuses:

**Distance between main campus and health science campus 6 Km**

3.2 Physical dimension of each campus:

**Campus Simon Bolivar: approx 2 square Km**

**Campus Pedro Arauz Palacios: 3 square Km**

3.3 Number of buildings in use for administrative and/or academic units at each campus:

**20% of the building are used for administrative duties, 80% in classrooms, laboratories and teacher's officess.**

3.4 Names or function of each building in use for administrative and/or academic purposes:

**See Maps of each campus**

3.5 Describe in brief the main course programs the university is offering. Please include duration of the program and the number (estimate) of students presently participating in the programs

	<b># students</b>
<b>Master Programme in Mechanical Engineering</b>	<b>20</b>
<b>Master Programme in Industrial Engineering with emphasi in Maintenance, Quality Projects and Process</b>	<b>20</b>
* <b>Master Programme in Sanitary Engineering</b>	<b>30</b>
* <b>Master Programme in Transport Engineering</b>	<b>30</b>

*	Master Programme in Electrical Engineering	30
*	Master Programme in Telecommunications	30
*	Master Programme in Industrial automatization	30
*	Master Programme in Management and auditory	30
*	Master Programme in Environmental Science	15
*	Master Programme in Environmental Engineering	15

(The Academic period is two years for all Master degree)

\* They will be initiate in April 2000

Programme of Speciatization in	
Industrial Security	20
Food Technology	30
Formulation and Social evaluation of Projects	30
Design and upright Structure analysis	30
Social housing and life Quality	30
Environmental Field and Urban development	30
Management and Evaluation of Environmental Impact	30

All this specialization has an academic period of 1 year.

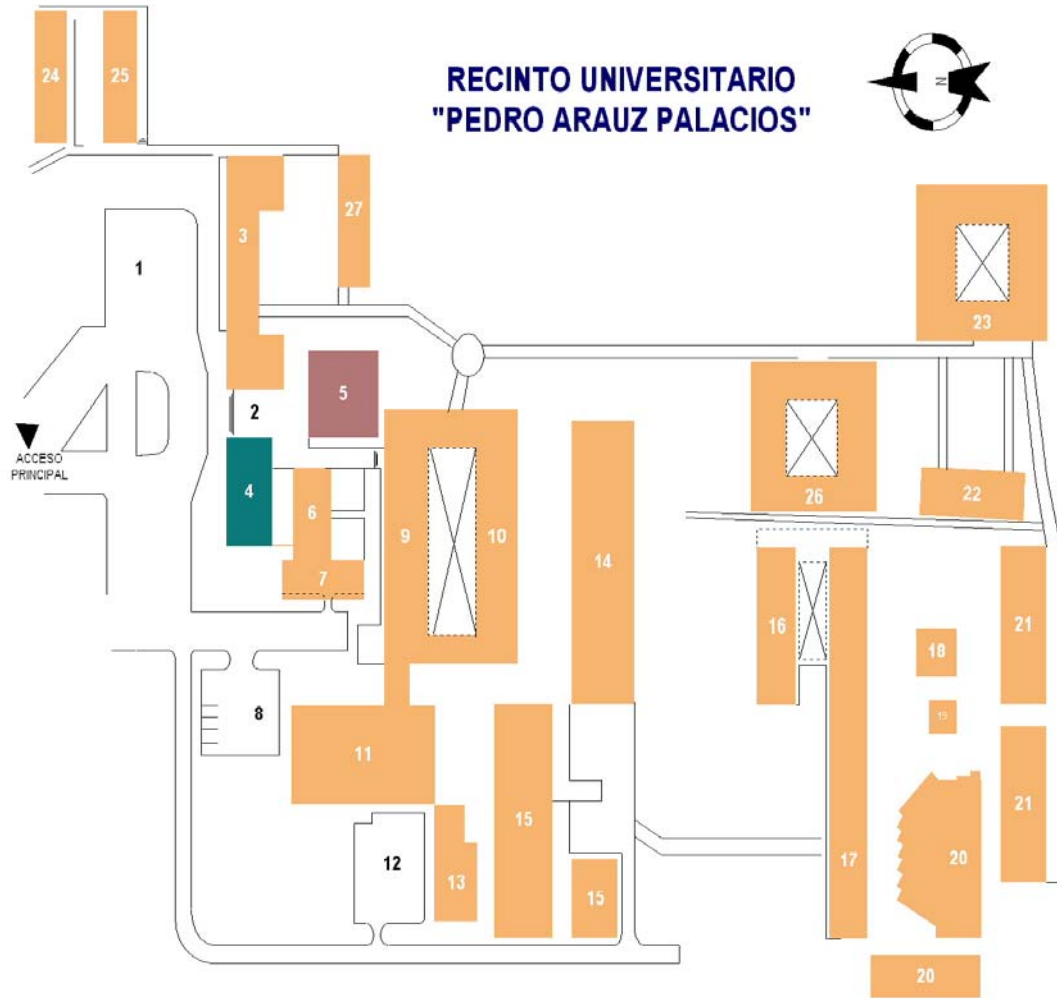
Short trainnig courses of Post-grade courses in:

Organization and planning	30
Finance Management	30
Marketing	30
Energetic Auditory	30
Administration and management	30
Programme of Environmental Economy	30
Programme of Planning and Management of bridges and roads	30
Programme of Eco-tourism Planning	30
Programme of Touristic Environmental	30
Management in rural Development Areas	30

(the Academic period for this courses are 3 months)

There are other technical courses in differents fields of engineering their academic period are less than 3 months and the are described in this document.

Please enclose copies of maps (if available) or schematic diagrams with the location of the buildings on the campuses!



# RECINTO UNIVERSITARIO "SIMON BOLIVAR"



