



Gobierno de Canarias

Consejería de Educación,
Universidades, Cultura y Deportes

I.E.S. EL RINCÓN

Professional Profile



Professional Curriculum

Non University Higher Education

COMPUTER SCIENCE SYSTEMS MANAGEMENT

Department of Computer Science

Table of Contents

1. PRESENTATION.....	
2. IDENTIFICATION OF TITLE	
2.1. Name.....	
2.2. Level.....	
2.3. Duration.....	
2.4. Modules.....	
3. PROFESSIONAL PROFILE	
4. IMAGES.....	

1. *Presentation.*

I.E.S. El Rincón is a higher education institution located in the Canary Islands (Las Palmas de Gran Canaria, Spain) offering recognised degrees and other qualifications in computer science. Besides it also offers upper secondary education, together with two different vocational training in computer science and management. Our institution is also involved in adult education at local and regional level.

We are working under a Quality Management System implanted by the norm ISO 9001:2000.

2. *Identification of title.*

2.1. *Name.*

COMPUTER SCIENCE SYSTEMS MANAGEMENT.

2.2. *Level*

Level 3. Non University Higher Education.

2.3. *Duration.*

2000 hours during 2 years.

2.4. Modules.

The courses are given in different modules:

First Course:

- ✓ Programming of structured languages and oriented objects.
- ✓ Local area networks
- ✓ Operating systems.
- ✓ English language in computer studies

Second Course:

- ✓ Database management systems
- ✓ Programming system software
- ✓ Introduction and maintenance of computing application
- ✓ Employment Training
- ✓ Relationship in the workplace
- ✓ Integration and projects
- ✓ Practices in companies.

3. Professional Profile.

The professional profile of the title of Computer Systems Management and general competence includes:

"Establish, operate and maintain the requirements of low and medium level computer systems that support the management and administration of the company, directly or by supporting frontline end users and implementing and complying with legal requirements in the sector."

The students will be able to work in the following professional fields:

- Specialist on maintenances in computing systems.
- Management in networks system.
- Database systems manager.
- System Programmer.
- Programmer
- Maintenance of computing application.

The units of competence in which general competition divides the title are:

<i>Competence units</i>	<i>Activities play in workplace</i>
1. Implement and manage computer systems in multiuser and network environments.	<ul style="list-style-type: none"> • Assemble and disassemble computer system. • Install and manage Operating System: Windows and Linux. • Create complex process in Operating System using Shell script. • Create and design computer system maintenance tasks
2. Implement and manage local network and manage the computer system connecting to wide area networks.	<ul style="list-style-type: none"> • Install and configure local area networks (ip address, gateway, subnet, address...) • Install and configure Wifi networks. • Install and configure Wiring networks. • Use tools of network commands and programmes through network. • Configure routers and vlan. Especially Cisco. • Install and configure Network Services (HTTP, TELNET, LDAP, FTP, etc.)
3. Implement and facilitate the use of general purpose software packages and specific applications.	<ul style="list-style-type: none"> • Install and configure general purpose software packages and specific applications. • Install and configure software general-purpose databases, word processors, spreadsheets, ... • Manage Services Database. • Develop basic applications and systems applications. • Web Design with specific programs such as joomla and drupal. • Manage web programming tools. <ul style="list-style-type: none"> ○ HTML, CSS and JavaScript ○ PHP
4. Developing, adapting and testing basic programs in structured programming languages	<ul style="list-style-type: none"> • Develop computing basic applications using JAVA and C++.

4. Images

