

Final version

SSIS – Corso ‘ESP/ICT’ – Clil project
Iannuzzi

A.A. 2005-2006

Specializzanda: Tiziana

Module structure and description

School: Istituto Tecnico Statale – indirizzo: Periti informatici

Time: 8 hours

Class: 5th year

Level: B1+

Topic: *Networks and Internet*

Title: *Comunicare con il computer*

Place in the curriculum:

Curriculum Informatica	Main Topic	School period
Progettazione di una base di dati	databases	September – December
Ambienti software per database	SW: Access; SQL.	January – February
Operare con il database	Access SQL	March
Progettare interface per database	Visual Basic	April
Comunicare con il computer	Networks and internet	May

Module of IT- according to the colleague’s plan

Module: Comunicare con il computer		
Unit title	Main topic	Time needed
1.Introduction to Networks and Networking planning	Basics of networking	8 hours
2.Communicating among computers	Protocols TCP/IP and Internet	8 hours
3.Assessment	Project work	3 hours

Unit title: Communicating among computers

Part only for the English teacher	Part only for the Content Specialist	Part to be done in co-presence
<ul style="list-style-type: none">• To introduce the vocabulary and linguistic structures connected with the topic internet.• To teach how to search for information in internet	<ul style="list-style-type: none">• To introduce the content about Protocols TCP/IP.• To explain the internet structure• To explain how to buy in internet.	Assessment of the module <ul style="list-style-type: none">• Division of the class into groups of three.• Handing out project paper and explaining the procedure for its elaboration• Giving time limit• Observing and aiding where necessary (both on technical and on language side)

Unit description and structure

This unit is part of “Comunicare con il computer”. It is the second unit of the module that introduces in the first part the explanation of the role of protocols, the identification of industry standard protocol stacks, the description of protocols work within a reference model. The second part consists of the explanation of internet structure, the description of the function of http, and finally the explanation of the function of a browser, a web page and the description of different ways of searching for information.

General objectives of Unit

Student will learn:

- to map of TCP/IP protocols to the OSI model
- the definition TCP and IP

- the IP addressing
- the internet structure
- What ISP does
- To identify how web sites are structured
- To learn what the Domain Name System
- The role of URL
- To explain how the web has affected business technology
- The various methods of securing online documents and transactions
- To use search engine
- The structure of a web site

Objectives of the English lesson:

Linguistic objectives: ✓ to promote the use of specific vocabulary on internet and world wide web.

✓ the use of passive, ing form, present perfect, future.

Communicative objectives: ✓ to express their opinion

✓ to formulate hypotheses

Affective and social objectives: ✓ to promote active participation

✓ to stimulate curiosity, interest

✓ to encourage collaboration

Pre requisites: Students are expected to know:

✓ what the internet is

- ✓ the structure of the internet
- ✓ how to access to internet
- ✓ vocabulary connected with email

Skills/Abilities:

- ✓ to read
- ✓ to match sentences and image
- ✓ to exchange info/to collaborate
- ✓ to take notes
- ✓ to speak (formulate hypotheses, and opinion)
- ✓ to listening
- ✓ to write (to give a reason)

Vocabulary:

- ✓ specific vocabulary connected with internet
- ✓ terms and tools of web browser
- ✓ Vocabulary connected with search engine

Type of activities: class work, single work, pair work

Aids: video beamer; board; computer; internet

Material: photocopies (worksheet)

Place: laboratory

Evaluation of the lesson: it is based on two grids: one is meant to evaluate students' non-cognitive aspects such as participation, motivation, interest. The other one is meant to assess what they know about vocabulary linked to internet and world wide web and what they are able to do when searching information on the internet. It also take into consideration students' ability to give reasons for a search criteria.

Assessment and Evaluation: The assessment will be made according to different aspects. On the one hand, together with the colleague we will take into account the content of students' production. On the other hand, we will consider the linguistic skills of each student in English. The evaluation, finally, will be based on the result of the assessment sessions (both in progress and in the end), but also on the participation and interest shown. The module assessment will consist of a project work where students are asked to work in small groups in order to design and plan a network for a customer, identifying the best network typology both physically and logically speaking, its costs, the material needed for its realization.

Unit 2 – Communicating among computers

Lesson :“world wide web”

Time: 2 hours

Place: the lab

	Time	Activity	Aims	Procedure	Skills	Material
Activity 1	5 minutes	Warm up Single work	To lead students to think of the concepts they learnt in the previous lesson.	The teacher hands out some photocopies " Read and Match " about network that they learnt in the previous lessons. The students have to match the correct letter of the steps inside the box.	Reading Matching sentences and images.	photocopies
Checking activity	5 minutes	Class work	Control of the activity 1	The teacher asks students to compare their answers with their desk mates, then she/he asks some students in their pair what they think the correct answers are.	Speaking	photocopies
Activity 2	10 minutes	Single work	-To check what the students know about the internet, and networks in general. This is information that they learnt in the previous lesson with the colleague. - To introduce a English terminology about internet.	The teacher asks students to do a quiz " How much do you know about internet " They will use hot potatoes program.	Reading	computer
Activity 3	10 minutes	Class activity	The aim of the activity are: -To introduce how internet works, and key terms connected with internet. - to attract the students' attention using a multimedia activity. - To introduce new vocabulary	The teacher explains what a domain name system and IP address are, showing some slides of a pp presentation. Title " The internet and World wide web ", the students take notes of the key terms.	Reading Listening Take notes	videobeamer
Activity 4	15 minutes	Class activity	-To elicit the correct answers -To use a inductive approach - To explain what a browser is and the characteristic of the two main browser	The teacher asks the class " <i>What is a web browser?</i> ", this question is written in a power point slide. The students try to guess: some of them have heard this word before, while others don't know it or few students know the word but not the meaning. Then, the teacher gives three possibility, the ss will choose the correct one. The teacher gives more information about what is a browser and about the two most famous browsers"internet explorer" and "netscape"	Reading Speaking	videobeamer
Activity 5	10	Pair work	To introduce a new terms	The teacher hands out some photocopies " Worksheet Browser ". The	Reading	Photocopies

	minutes	activity	about browser and some definitions	students with their desk mate have to fill some words inside the bubbles, than they have to match name of browser buttons to their description.	Matching	
<i>Checking activity</i>	10 minutes	Class work	-To control the exercise -To give more information about tools in a web browser	The teacher checks the answers of the previous exercise using a videobeamer, and showing some slides about the function and tool of a web browser, adding more information.	reading	videobeamer
<i>Activity 6</i>	5 minutes	Brainstorming Pair work + Class activity (checking)	-To prepare the students for the topic " How to find information on internet"	The teacher asks the class to think about the possible ways to find information on internet. In pair, the students have to discuss the possible solution, and complete their diagram, they have a time limit 3 minutes Then the teacher completes only one grid for all the class with power point (or on the board) according their answers.	Writing speaking	Photocopies Videobeamer (or board)
<i>Activity 7</i>	20 minutes	Class work	- The Internet is the source of a vast amount of data, which may seem overwhelming when you need to find specific information. The purpose of this activity is to teach techniques and strategies for quickly uncovering the information you need online.	The teacher introduces the topic "search engine" showing a slide where three tool types are described. In the meanwhile, the students can see the different types of search engines going on line in their websites, e.g. www.yhahoo.com ; www.altavista.com Then the teacher focalises her/his attention on the most comprehensive engine "Google". The teacher asks the students to go on line because they will do an activity all together. The first step of the activity is to log in the website www.google.com/advanced_search The teacher explains step by step the different methods to do an efficient research on internet. In pair, the students take notes in their grid and do the exercise on line following the teacher's instruction.	Listening Reading writing	Computer with access to internet Photocopies
<i>Activity 8 Assesmet</i>	30 minutes	Single work	-To assess SS' performance in searching information -To check their knowledge about a specific vocabulary on internet.	The teacher assesses the students according what they have done during this lesson. Each student has to: 1) fill some words inside two circles 2) use his/her computer, match words with definitions, complete some sentences, and a crosswords. 3) show if he/she has understood how to find information using search engines, and give reasons for what he/she has found.	Writing Reading	Photocopies Computer with access to internet