

Syllabus Course description

Course title	Information Systems and Data Management
Course code	27000
Scientific sector	ING-INF/05
Degree	Bachelor in Economics and Social Sciences
Semester and academic year	1st semester 2021-2022
Year	2
Credits	3
Modular	No

Total lecturing hours	30
Total lab hours	0
Total exercise hours	18
Attendance	suggested, but not required; for non-attending students additional study material wil be provided on the course's website on OLE
Prerequisites	English understanding and reading at level B2. Basic computer usage, in particular Microsoft Windows and file handling.
Course page	The course page will be available from OLE when the course will start. For some extra video materials on lab parts, see www.paolocoletti.it/27000

Specific educational objectives	The course is designed to acquire further computer skills, in particular to raise average skills in computer basics,
_	network usage, and data organization, to provide
	knowledge of legal requirements when handling data,
	basic data organization, and extraction techniques.

Lecturer	Andrea Molinari Office E 310 (on office hours) Andrea.Molinari@unibz.it https://www.unibz.it/en/faculties/computer- science/academic-staff/person/3420-andrea-molinari
Scientific sector of the lecturer	ING-INF/05
Teaching language	English
Office hours	9 hours, will be planned in calendar before the start of the course.
Lecturing assistant	None
Teaching assistant	Alessio Brutti Alessio.Brutti@unibz.it https://www.unibz.it/it/faculties/economics- management/academic-staff/person/14219-alessio-brutti
Office hours	



List of topics covered	 File handling, basic computer usage, Windows, computer networks and security requirements, data management, information systems Microsoft Excel, graphs, formulas, functions, data management in Excel Microsoft Access basic, querying a database.
Teaching format	Frontal lectures in standard classroom, frontal lectures in computer lab with examples and exercises assigned in class, interactive exercises in standard classroom and in computer room held by teaching assistant.

	: computer room neid by teaching assistant.
Learning outcomes	 Knowledge and understanding: Basic knowledge of computer network system Knowledge of threats, security and legal obligations of automatic data handling Deep knowledge of a spreadsheet program Basic knowledge of database interaction through queries Basic knowledge of data management Basic knowledge of information systems
	 Applying knowledge and understanding: Basic usage of Windows file and cryptographic systems Advanced ability to analyse and organize economic datasets through spreadsheets Ability in data extraction from a database management program Information systems and their role in modern organization
	Making judgments Distinguish software types and licences formatsDecide which techniques to use when organizing data
	Communication skills Building efficient and appropriate graphsBuilding data summaries
	Learning skills • Extending Excel functions though usage of online help

Assessment	 Written test to assess knowledge on theoretical concepts (basic computer usage, computer networks and security requirements etc.). Practical assessment to test data organization, handling and modification through Excel. Practical assessment to test data extraction and handling ability on Access. The possibility of having mid-terms on item 1 and 2 will be evaluated during the course.
Assessment language	English
Evaluation criteria and	Grade is the weighted average of assessment 1 (30%),



criteria for awarding marks	assessment 2 (50%), assessment 3 (20%). File handling and severe basic computer errors count negatively on the
	final grade.
	Particular emphasis is given to solutions which are
	optimal, efficient and extensible.
	No differences in the assessment between attending and
	non-attending students.

Required readings	 Basic Computer course book, available on www.paolocoletti.it/27000 Videos on Excel, databases and Access, available on www.paolocoletti.it/27000 Databases course book, available on www.paolocoletti.it/27000
Supplementary readings	 Excel 2007 for dummies, Greg Harvey, ISBN 978-0-470-03737-9 Excel 2007 Data Analysis for dummies, Stephen Nelson, ISBN 978-0-470-04599-2 Networking for dummies, Doug Lowe, ISBN 0-7645-1677-9 Networking: A Beginner's Guide, Bruce Hallberg, McGraw Hill, ISBN 0-0722-2563-7 Sams Teach Yourself Microsoft Office Access 2003 in