MODELLO D.C. L.				
MODELLO D (inglese) General Information				
	Claud Cammutina			
Academic subject	Cloud Computing			
Degree course Curriculum	Master of Science (MSc) in Computer Science (LM18)			
	Software and Services Engineering			
ECTS credits	6			
Compulsory attendance	No, but attendance is strongly recommended			
Language	English			
Subject teacher	Name Surname	Mail address	SSD	
Subject teacher	Antonio Piccinno	antonio.piccinno@uniba.it		
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ECTS credits details				
Basic teaching activities	Lectures	4 T1 credits		
	Guided exercises	1 T2 credit		
	Student project	1 T3 credit		
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Class schedule				
Period	1st semester			
Year	2nd year			
Type of class		Lecture - workshops		
Time management				
Hours	47	47		
Hours of lectures	32 (4 credits)			
Tutorials and lab	15 (1 credits)			
Academic calendar				
Class begins	25 th September 2019			
Class ends	10 th January 2020			
Syllabus				
Prerequisites/requirements	Formal prerequisites: none			
	Cultural prerequisites: knowledge of networking and distributed			
	system concepts (necessary), knowledge of a programming			
	· · · · · · · · · · · · · · · · · · ·), first year courses (importan	t).	
Expected learning outcomes (according	Knowledge and understanding			
to Dublin Descriptors) (it is	Acquisition of knowledge about the Cloud Computing field. The			
recommended that they are congruent		se will be focused on theory	•	
with the learning outcomes contained in		d applications. Students will		
A4a, A4b, A4c tables of the SUA-CdS)		service (Saas), platform as a		
		a service (IaaS), server	_	
	virtualization and o	other topics related to cloud co	omputing.	
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	Applying knowledge and understanding Acquisition of the necessary skills to solve problems in new or unfamiliar areas regarding issues related to cloud services or the adoption of cloud solutions. The course is supported by real-world case studies and the contents ideal for developers who will build the cloud solutions of the future			
	of the future.			
	Malina informadio da amenta and del circa			
	Making informed judgements and choices Integration of the knowledge acquired in the curriculum to			
	manage complex problems also on the basis of limited and			
	manage complex	prodicino aiso dii die dasis	or minicu and	

Contents	incomplete information. Acquiring autonomy of judgement with respect to the ethical implications and professional responsibilities of IT practice. Communicating knowledge and understanding Ability to communicate the results obtained to specialist and non-specialist interlocutors, as well as the development of collaborative skills that are indispensable for team work. Capacities to continue learning Achieving autonomy in the study and in the identification and definition of innovative solutions in the field of cloud computing.
	Part I: Cloud Computing Fundamentals
	 Cloud Computing Software as a Service (SaaS) Platform as a Service (PaaS) Infrastructure as a Service (IaaS)
	Identity as a Service (IDaaS)
	 Data Storage in the Cloud
	Collaboration in the Cloud
	www.
	Securing the Cloud Dispostor Resorvery and Programs Continuity and the Cloud
	Disaster Recovery and Business Continuity and the Cloud Samina Oriental Applications (SOA)
	Service-Oriented Architectures (SOA)
	 Part II: Managing Cloud Services Managing the Cloud Migrating to the Cloud Cloud and Mobile Devices
	Governing the Cloud
	 Part III: Implementing Cloud Services Evaluating the Cloud's Business Impact & Economics Designing Cloud-Based Applications Coding Cloud-Based Applications Application Scalability
Course program	
Bibliography	Kris Jamsa, Cloud Computing - SaaS, PaaS, IaaS, Virtualization, Business Models, Mobile, Security and More, Jones & Bartlett Learning, ISBN: 9781449647391, 2013
Notes	Bibliography will be integrated with the slides available on the e-learning platform.
Teaching methods	Lectures and tutorials supported by slides and demos. During the practice lessons students will use and implement cloud services.
Assessment methods (indicate at least the type written, oral, other)	The learning assessment will already begin during the laboratory lessons.
	Lab assessment: - tasks assigned and supervised by the lecturer (for students regularly attending the course)

	- implementation of a cloud service assigned by the lecturer (for students not regularly attending the course) Oral assessment:
	- oral test, including questions about the course program (for all students)
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there	The students should know the concepts presented and discussed during classes and be familiar with the tools introduced in the tutorials and lab sessions.
are.	The score of the exam is given by means of a mark in 30th. The oral examination accounts for 60% of the score, the discussion of the Lab work accounts for about 30% of the final grade, the active participation of students in frontal and online activities will be about 10% of the final grade.
Further information	