CLOUD COMPUTING

1	Course Title:	CLOUD COMPUTING	
2	Course Code:	BLPS2412	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	4	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr.Gör. EBRU YENİMAN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Öğr. Gör. Ebru Yeniman Yıldırım Email: yeniman@uludag.edu.tr Tel iş: (224) 29 42 369 Uludag Üniversitesi Teknik Bilimler M.Y.O. Görükle kampüsü Nilüfer-BURSA	
17	Website:		
18	Objective of the Course:	The aim of the course is to introduce current applications related to cloud computing. Within the scope of this course, necessary information will be given to design and develop cloud-based software systems by focusing on cloud computing models, techniques and architectures. Concepts such as SaaS, PaaS, IaaS and IdaaS and service providers for these concepts will be introduced.	
19	Contribution of the Course to Professional Development:	In this course, they will be able to gain knowledge on cloud computing fundamentals, cloud architecture, service models, benefits, distributed storage, cloud security, services and software, and commercial cloud services.	
20	Learning Outcomes:		
		1	Will be able to the principles of cloud computing.
		2	Will be able to use benefits of cloud computing are that they will have knowledge about distributed storage,
		3	They will learn the concepts of distributed storage and security.
		4	They will have knowledge about virtualization, service-oriented architecture and web services.
		5	They will recognize cloud applications - frameworks.
		6	They will be able to develop simple applications using a standard such as Google App Engine
		7	Will became able to recognize and compare existing industry software.
		8	
		9	
		10	
21	Course Content:		

	Course Content:	
Week	Theoretical	Practice
1	Basic Components of Cloud Computing and fundemantal	
2	Cloud Computing (i) Infrastructure as a Service (IaaS), (ii) Platform as a Service (PaaS) (iii) Software Application services (SaaS)	
3	Cloud Technologies	
4	Cloud services and applications	
5	Virtualization Technology, Abstraction	
6	Cloud Development: Data storage in the cloud. Cloud Development: MapReduce.	
7	Cloud Development: Dev 2.0 platforms.	
8	Private Business Enterprise Software (Google web services and Microsoft cloud services)	
9	Cloud Security – and MIDTERM	
10	Cloud Computing Risk Management Approaches	
11	Getting to know the system, Workflow and Business Processes	
14	Project Presentations	

Materials:

-Enterprise Cloud Computing, by Gautam Shroff

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0.00
Final Exam	1	60.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	12	2.00	24.00
Homeworks	1	14.00	14.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	8.00	8.00
Others	0	0.00	0.00
Final Exams	1	16.00	16.00
Total Work Load			98.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

Contribution of Term (Year) Learning Activities to Success Grade	40.00
Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.
24	**ECTS / WORK LOAD TABLE**

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	5	5	4	3	4	4	4	4	4	3	2	0	0	0	0	0
ÖK2	5	5	4	3	4	4	4	4	4	3	2	0	0	0	0	0
ÖK3	5	5	4	3	4	4	4	4	4	3	2	0	0	0	0	0
ÖK4	5	5	4	3	4	4	4	4	4	3	2	0	0	0	0	0
ÖK5	5	5	4	3	4	4	4	4	4	3	2	0	0	0	0	0
ÖK6	5	5	4	3	4	4	4	4	4	3	2	0	0	0	0	0
ÖK7	5	5	4	3	4	4	4	4	4	3	2	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**				**4 High**			**5 Very High**			