



Ministry of Higher Education and Scientific Research
Lebanese French University – Erbil
College of Engineering and Computer Science
Department of Computer Network



Cloud Computing - I

Fourth Year – First Semester

Asst. Prof. Dr.S.T.Suganthi

Academic Year: 2022-2023

Course Book



S. No.	Information	Details
1.	Course Name	Cloud Computing
2.	Course Code	
3.	Lecturer In-charge	Dr.S.T.Suganthi
4.	College/Department	ECS/Information Technology
5.	Contact Information	E-mail: suganthi@lfu.edu.krd Mobile No.: 0964-7516898309
6.	Time (in hours) per Week	Theory: 02 Hours Practical: 02 Hours
7.	Office Hours	Saturday to Wednesday
8.	Teacher's Academic Profile	She has completed B.E, M.E and Ph.D in Electrical Engineering. She has Thirteen years of teaching experience in microprocessor, computer architecture, logic design, research methodology etc.
9.	Academic Title	Assistant Professor
10.	Keywords	Cloud Computing (CC) Technologies, CC Architecture, CC Deployment Models, CC Service Models, CC Virtualization, etc.
11.	Course Overview: <ul style="list-style-type: none">• This course is designed to impart knowledge on the cloud computing concepts with examples and applications.• Get an idea of CC technologies, architecture and infrastructure.• Understand about CC deployment models.• Discuss about CC Service Models, CC Management, Data Storage, Virtualization, Security.	



12.	<p>Aims & Objective:</p> <ul style="list-style-type: none"> • To learn about service-oriented architecture • To learn about virtualization • To understand the evolution of cloud computing • To understand Cloud Computing models • To learn about software platforms available for cloud management.
13.	<p>Course Requirement:</p> <ul style="list-style-type: none"> • All students should attend lectures carefully. • All students should attend Classroom Tests, Discussions, Assignments, and Examinations such as Mid-term and Final.
14.	<p>Teaching and Learning Method:</p> <ul style="list-style-type: none"> • Lectures • E-learning Methods • White Board • PPT Presentation • Team Work • Project Show (Practical Session) • Assignments
15.	<p>Assessment Scheme:</p> <ul style="list-style-type: none"> • 5 % Assignments/Attendance • 10 % Class Tests and Quizzes • 25 % Mid-term Examination • 10 % Practical Examination • 50 % Final Examination
16.	<p>Students Learning Outcome: After completing the course, students can:</p> <ul style="list-style-type: none"> • Utilize virtualization technologies. • Recognize web services of the internet. • Identification of Cloud computing Models. • Ability to understand OpenStack tools. • Ability to understand Open Nebula tools
17.	<p>Course Reading List and References</p> <ul style="list-style-type: none"> • Book: Cloud Computing Bible, Barrie Sosinsky, Wiley Publication. • Book: Mastering Cloud Computing, Rajkumar Buyya et.al, Morgan Kaufmann Publication. • Book: Cloud Computing: A Practical Approach, Anthony T. Velte et.al, McGraw Hill Publication.
18.	<p>Course Content</p>

Course Content



Week	Lecture Date	No. of Hours	Topics
1.	11-09-22 15-09-22	3	Cloud Computing Basics: Overview, Planning
2.	18-09-22 22-09-22	3	Cloud Computing Basics: Technologies, Architecture, Infrastructure
3.	25-09-22 29-09-22	3	Cloud Deployment Models: Public Cloud Model, Private Cloud Model
4.	02-10-22 06-10-22	3	Cloud Deployment Models: Hybrid Cloud Model, Community Cloud Model
5.	09-10-22 13-10-22	3	Cloud Service Models: Infrastructure as a Service (IaaS), Platform as a Service (PaaS)
6.	16-10-22 20-10-22	3	Cloud Service Models: Software as a Service (SaaS), Identity as a Service (IdaaS)
7.	23-10-22 27-10-22	3	Cloud Service Models: Network as a Service (NaaS)
8.	30-10-22 03-11-22	3	Cloud Advanced Concepts: Cloud Computing Management, Cloud Computing Data Storage
9.	06-11-22 10-11-22	3	Cloud Advanced Concepts: Cloud Computing Virtualization, Cloud Computing Security
10.	13-11-22 17-11-22	3	MIDTERM
11.	20-11-22 24-11-22	3	Cloud Advanced Concepts: Cloud Computing Operation, Cloud Computing Applications
12.	27-11-22 01-12-22	3	Cloud Advanced Concepts: Cloud Computing Providers, Cloud Computing Challenges
13.	04-12-22 08-12-22	3	Cloud Advanced Concepts: Mobile Cloud Computing
14.	11-12-22 15-12-22	3	REVIEW
15.	18-12-22 22-12-22		Final Examination



19.	<p>Examinations:</p> <ul style="list-style-type: none">• Compositional: In this type of exam, the questions usually start with explain (How...? / What ...? /Why...?) With their typical answers. (Example should be provided)• True or False: In this type of exam, a short sentence about a specific subject will be comment on the trueness or falseness of this particular sentence. (Example should be provided)• Multiple Choices: In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase. (Example should be provided).• Fill blanks: The description may be given and ask.• Matching: A number of questions in one side and their answers in another side will be presented. It will ask the students to match the questions with correct answers.
20.	<p>Notes: Lecture Notes</p>