**UNIVERSIDAD NACIONAL JOSE FAUSTINO SANCHEZ CARRION**

**FACULTAD DE INGENIERÍA INDUSTRIAL, SISTEMAS E INFORMATICA**

**ESCUELA DE INGENIERÍA INFORMATICA**

**MODALIDAD NO PRESENCIAL**

**SILABO DE CLOUD COMPUTING**

**1. DATOS INFORMATIVOS:**

**1.1.** Código de la Asignatura : 3305504

1.2 Pre requisito : 3305454

**1.3** Semestre Académico : 2020-I

**1.4** Ciclo de Estudios : IX

**1.5** Créditos : 04

**1.6** Horas Semanales : 6 horas semanales

**1.5.1.** Horas Teóricas : 03 horas semanales

**1.5.2.** Horas Practica : 03 horas semanales

**1.7** Duración : 17 semanas

**1.6.1.** Inicio : 03 Agosto 2019

**1.6.2.** Término : 27 Noviembre 2020.

**1.8.** Docente : Ing. José Antonio Galdos Felipe

**1.9** Correo Electrónico : [pyokof@hotmail.com](mailto:pyokof@hotmail.com)

1. **FUNDAMENTACION.**

Cloud Computing and E\_business refers to providing computing and communications-related services with the aid of remotely-located, network-based resources without a user of such resources having to own these resources. The network in question typically, though not necessarily, is the Internet. The resources provisioned encompass a range of services including data, software, storage, security, and so on. For example, when we use a mail service such as Gmail, watch a movie on YouTube, shop at Amazon.com, or store files using DropBox, we are using cloud-based resources. In this chapter we examine the evolution of Cloud Computing from its early roots in mainframe-based computing to the present day and also explain the different services rendered by Cloud Computing in today’s business and personal computing contexts. This chapter provides a comprehensive view of the rapidly flourishing field of Cloud Computing and sets the stage for more in-depth discussions on its security, trust, and regulatory aspects elsewhere in this compendium.

1. **TRANSVERSAL THEME.**

The goal of this topic is considered the investigation like a fundamental part of knowledge in the process of learning of new cloud services and models of e\_business.

1. **THE VALUES.**

The values of this topic are punctualty, responsibility, respect and identity.

1. **GRADUATED PROFILE.**

* Work in multidisciplinary teams
* Demonstrate Professional and Ethical Responsibility
* Use Techniques, methodologies, strategies and tools of computer engineering and Systems necessary to the practice of it.
* Analyze, Design, Implement new tools in cloud and e\_business.

1. **COMPETENCES.**

* Know, analyze and develop IT Projects in cloud and e\_business.

1. **ACADEMIC PROGRAMMING.**

**3.1 FIRST UNIT.**

1. **Conents:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sem.** | **Contents** | | |
| **Conceptuals** | **Procedural** | **Sections** |
| 1 y 2 | * **Chapter one,** Introduction. * **Chapter one.**   The evolution of cloud computing. | What is cloud computing?  Concepts and terms.  Time-Sharing on Mainframe Computers.  Peer-to-Peer and Client-Server Computing.  The Peer-to-Peer Model.  The Client-Server Model.  Grid Computing.  Utility Computing.  Virtualization**.** |  |
| 3 | * **Chapter two.**   Cloud computing models | Private Cloud.  Public Cloud.  Hybrid Cloud.  Community Cloud. |  |
| 4 | * **Chapter three.**   Cloud computing services | A Conceptual View of Cloud Computing  [Infrastructure as a Service](http://en.wikipedia.org/wiki/Infrastructure_as_a_service) (IaaS).  [Network as a Service](http://en.wikipedia.org/wiki/Network_as_a_service) (NaaS).  [Storage as a Service](http://en.wikipedia.org/wiki/Storage_as_a_service) (STaaS).  Database as a Service (DBaaS).  [Backend as a Service](http://en.wikipedia.org/wiki/Backend_as_a_service) (BaaS).  [Platform as a Service](http://en.wikipedia.org/wiki/Platform_as_a_service) (PaaS).  [Software as a Service](http://en.wikipedia.org/wiki/Software_as_a_service) (SaaS). |  |
| 5 | * Practice 1**.** | Chapter 1,2,3. |  |
| 6 | * **Chapter five.**   Cloud computing and web 2.0/web 3.0 initiatives. Features and trendies. | Cloud Computing and Web 2.0.  Quality Of Service  Service Level Agreement  Scalability & Elasticity  Dynamic Provisioning  Availability & Reliability  System Resilience |  |
| 7 | * **Chaper six.**   Purported benefits of cloud computing | Cloud Computing desirable characteristics.  Cloud Computing solution.  For Market and Enterpeises  Challenges from a Customer Perspective.  Note on Security, Interoperability, and Portability Concerns. |  |
| 8 | * **Parcial evaluation 1** |  |  |

**3.2 SECOND UNIT.**

1. **Contents:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sem.** | **Contenidos** | | |
| **Conceptuals** | **Procedural** | **Sections** |
| 9 | * **Chapter seven.**   Introduction to e-Business | Understand the definition, classification, development and the economic influence of the e-business |  |
| 10 | * **Chapter eight.**   E-business Network Technology | Basic knowledge to Computer Network, Intranet\Extranet\Intranet, Webpage, Website |  |
| 11 | * **Chapter nine.**   e-Business Model Ontology | Classification to e-Business, Ontology research, Strategy and e-Business |  |
| 12 y 13 | * **Chapter ten.**   IS-IT Models  **Practice 2** | Diamond Model, Stage of Growth, Generic Strategies, Strategic Grid, 5 levels of IT-induced configuration.  Chapter 7,8,9,10. |  |
| 14 | * **Chapter eleven.**   E-payment | E-moneyand e-payment, different forms of e-payment, e-banking |  |
| 15 | * **Chapter twelve.**   Implementation of an EC plan on the Internet | Steps and Issues of e-business implementation |  |
| 16 | **Final exam / final essay.** | | |

**IV RESOURSES**

**4.1 Humans:**

* Teacher of the couse.
* Students in list.

**4.2 Materials**:

* Virtual Classroom
* Virtual Whiteboard.
* Chats
* Google meet
* internet

**4.3 Course Requirements.**

* This course requires students to complete the following:
* Participation: 10%
* Presentation: 20%
* Exam: 30%
* Final Assignment: 40%

**About classroom participation:** While thegrade cannot be based on attendance per se, studentsshould plan to be in class and ready to discuss the readings/ lectures. Students will be divided into small discussion groups at the beginning of the term, and topics for presentation will be assigned to each of group members.

**About in-class presentation:** Each student will conduct a 30-minute PPT presentation (the list for signup will be passed out on the first week) and also provide the questions for a 15- minute discussion on the topic provided. The presentation should be informative on the topic, and creativity is more than welcomed. Students must send their PPT to the course instructor for evaluation after the presentation, and use a minimum of 3 academic sources (students may use Wikipedia and other online sources as well, but they do not count toward the 3 academic sources). Please include the bibliographic references at the end of PPT presentation).

**Exams:** There will be a written exam held at the middle of the course.

**Policy on late assignments and missed exam:** It will be marked zero for a missed

**V BIBLIOGRAPHY**

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**Ing. José Antonio Galdos Felipe**