

Syllabus

SEN305(EnterpriseArchitecture:
CreditUnits:2E)

DepartmentofSoftwareEngineering
FacultyofComputing
UniversityofDelta,Agbor,Nigeria

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OfficeHours:Monday,Tuesday,Wednesday,Thursday&Friday8:00am-4:00pm

Youcanaccessmeinmanyways.Face-to-facecommunicationwhichoftenleadstomorerefinedandfocusedquestionsresultinginyourimprovedunderstandingishighlyencouraged.Takeadvantageofmyofficehoursasstatedabove.Questionsduringclassorimmediatelyafterclassarealwayswelcome.Emailisaneasywaytoaskquestionsoutsideofclassbutisnotproductiveasface-to-facecommunication.

MeetingTimeandPlace:Wednesday,12:00to2:00pm,FOCLH2

Attendance

Youareexpectedtoattendeveryclass.Ifyoumustmissaclass,itisyourresponsibilitytomakeupfortheworkthatyoumissed.Ifyouaregoingtobeabsentfromanyclass,youmustpleasenotifymethroughyourclassrepresentativeinadvance.

MethodsofInstruction

This syllabus contains an overview of what will be covered in class; for specific information, students are referred to the class web page maintained on the University website. Assignments will be posted on University of Delta LMS or given in the class and should be submitted through University of Delta LMS. Class attendance as well as participating in all your class and homeworks will help the borderline cases.

Overview

This Course presents the basic concepts and methodologies for the discipline known as Enterprise Architecture within a framework, structure, and methodology. Enterprise architecture is the process of translating business vision and strategy into effective enterprise change by creating, communicating and improving the key requirements, principles and models that describe the enterprise's future state and enable its evolution.

The scope of the enterprise architecture includes the people, processes, information and technology of the enterprise, and their relationships to one another and to the external environment. Enterprise architecture compose holistic solutions that address the business challenges of the enterprise and support the governance needed to implement them.

Objectives

The objectives of this course are to:

- 1.ExplainwhatEnterpriseArchitectureisandwhyitisimportant;
- 2.Describetherelationshipbetweenvision,strategyandarchitecture
- 3.DescribeenterprisearchitecturalITframeworks
- 4.ExplaintheelementsofanenterpriseITarchitecture
- 5.Describethe methodology for developing an enterprise architecture
- 6.Explainthechallengesfacingenterprisearchitects

Learning outcomes

At the end of this course, students should be able to:

1. Explain what Enterprise Architecture is and why it is important;
2. Describe the relationship between vision, strategy and architecture
3. Describe enterprise architectural IT frameworks
4. Describe the elements of an enterprise IT architecture
5. Describe a methodology for developing an enterprise architecture
6. Explain the challenges facing enterprise architects
7. Identify the risks and security within an audit and compliance standards.

Course Contents

Definitions of Information technology. Information technology infrastructure. The Information technology support systems. The operational support systems. The administrative support systems and strategic needs of an organisation. The design of enterprise information technology solutions. The selection of enterprise information technology solutions. The implementation of enterprise information technology solutions. The management of enterprise information technology solutions. Frameworks and strategies for infrastructure management. The distributed computing. The concept of middleware. Legacy system integration. System consolidation. Software selection. Total cost of ownership calculation. Information technology investment analysis. Emerging technologies in Enterprise Architecture. Managing risk and security within an audit and compliance standards.

Lecture Schedules

Week	Content	Lecture notes/slides
1.	Definitions of Information technology. Definition of Information technology	
2.	The Information technology support systems. The operational support systems.	
3.	The operational support systems. The administrative support systems and strategic needs of an organisation.	
4.	The design of enterprise information technology solutions.	
5.	The management of enterprise information technology solutions.	
6.	Frameworks and strategies for infrastructure management.	
7.	The distributed computing. The concept of middleware.	
8.	Legacy system integration.	
9.	System consolidation.	
10.	Software selection. Total cost of ownership calculation.	
11.	Information technology investment analysis.	
12.	Emerging technologies in Enterprise Architecture.	
13.	Managing risk and security within an audit and compliance standards.	
14.	Revisions	
15.	Final Exam	

Examinations schedule

- Attendance
- Homework

- Class Test
- End of Semester Exam

Grading

- Homework: 10% of grade
- Attendance and lecture material: 10% of grade
- Midterm Exam: 10% of grade
- Final Exam: 70% of grade

Text & References

All relevant resources as found in the University library as well as those in the faculty of computing library. Lecture notes will equally be used to support the libraries' materials.

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behaviour conducive to a positive learning environment. The code of student conduct is described in detail in the student handbook or University website.

Academic Honesty

"All students enrolled at the University shall follow the tenets of common decency and acceptable behaviour conducive to a positive learning environment." It is the policy of the University, that no form of plagiarism or cheating will be tolerated. Plagiarism is defined as the deliberate use of another's work and claiming it as one's own. This means ideas as well as text or code, whether paraphrased or presented verbatim (word-for-word). Cheating is defined as obtaining unauthorised assistance on any assignment. Proper citation of sources must always be utilised thoroughly and accurately. If you are caught sharing or using other people's work in his class, you will receive a 0 grade and a warning on the first instance. A subsequent instance will result in receiving an F grade for the course, and possible disciplinary proceedings. If you are unclear about what constitutes academic dishonesty, ask.

(SEN305)-Enterprise Architecture

(2 Units: LH30)

Information technology infrastructure and the systems that support the operational, administrative and strategic needs of an organisation. The design, selection, implementation and management of enterprise information technology solutions. Frameworks and strategies for infrastructure management, distributed computing, middleware, legacy system integration, system consolidation, software selection, total cost of ownership calculation, information technology investment analysis, and emerging technologies. Managing risk and security within audit and compliance standards.

MANAGER COURSES UNIDEL CMS Courses

Courseware Document * No file selected.

Course Code: Course Title:

1st: 200 Level: FOC:

Course Objective:

Course Synopsis:

Course Lecturer: Exam Mark: Test Mark: Assignment Mark:

Lecturer Hour: Tutorial Hours: Practical Hours: Course Unit:

SenateApprovedRelevance:

The senate approved relevance of Enterprise Architecture (EA) in our university community is the fact that relevant skills gathered will serve as a possible source of solution to the apparent issues of developing, adopting and managing Governance and management. Enterprise architecture will help multiple departments in our various faculties and other business sectors understand the broader activities and business model and articulate challenges and business risks. Enterprise architecture has an important role in unifying and coordinating departmental processes across our institution and her environment.

Overview:

Objectives:

Learning Outcomes:

Course Contents:

Minimum academic standard: As provided in the CCMAS