AIT 643: Enterprise Architecture
Credit Hours: 3
Prerequisite: AIT 624

Course Description: This course aims to provide a set of latest and progressive approaches in designing IT infrastructures, aligning them with enterprise business activities in architectural level. The discussions may be categorized in 4 major parts in enterprise architecture such as business architecture, information architecture, solution architecture, and technology architecture. Institutionalization of enterprise architecture frameworks and standards using enterprise specific business strategies will be discussed. The topics cover the fundamentals of business functions and IT infrastructure of an enterprise including definitions, frameworks, business process modeling, process institutionalization using CMMI, EA implementation through service-oriented architecture (SOA), and the various networking technologies in LAN/MAN/WAN as the enablers for EA.

Learning Objectives:

1. Understand and describe enterprise architecture definition, roles and constituent components
2. Understand the enterprise architecture frameworks and associated standards
3. Model enterprise architecture using various modeling techniques including UML
4. Understand networking technologies in terms of enterprise infrastructure implementation
5. Understand service-oriented architecture
6. Align a business’s strategic goals and its enterprise architecture
7. Understand the process of institutionalizing and assessing enterprise architecture

Bibliography: