Course Title: Ruby on Rails

Course Description:
Gain a well rounded understanding of how to develop web applications on this open-source web framework also known as RoR. Learn how to connect to your database, build forms and check for validation. Ajax integration will also be covered.

Course Prerequisite(s):
Computer Programming, HTML

Course Objectives:
1. Install Ruby on Rails
2. Connect to a database
3. Build Forms
4. Check form validation
5. Form e-mailers
6. Practice AJAX integration

Textbook(s):
Beginning Ruby: From Novice to Professional
Cooper; Apress

Lesson Plan – by week or session
Session 1: Chapter 1 – Let’s Get it Started: Installing Ruby
Chapter 2 – Programming==Joy: A Whistle-Stop Tour of Ruby and Object Orientation
Chapter 3 – Ruby’s Blocks: Data, Expressions, and Flow Control
Session 2: Chapter 4 – Developing a Basic Ruby Application
Chapter 5 – The Ruby Ecosystem
Chapter 6 – Classes, Objects, and Modules
Session 3: Chapter 7 – Projects and Libraries
Chapter 8 – Documentation, Error Handling, Debugging, and Testing
Chapter 9 – Files and Databases
Session 4: Chapter 10 – Deploying Ruby Applications and Libraries
Chapter 11 – Advanced Ruby Features
Chapter 12 – Tying it Together: Developing a Larger Ruby Application
Session 5: Chapter 13 – Ruby on Rails: Ruby’s Killer App
Chapter 14 – Ruby and the Internet
Session 6: Chapter 15 – Networking, Sockets, and Daemons
Chapter 16 – Useful Ruby Libraries and Gems