**Course title: Introduction to Web Services**

**Course Prerequisite: None**

**Course duration: 2 training days**

**Course coordinator: INTELL VISION**

## Course overview

In this course we will step through how to work with several popular technologies

Beginning with Explaining what web services are the benefits they provide, then we will cover a comparison of several popular web service technologies such as REST, SOAP and GraphQL.

## Course objective

By the end of this course students are able to

- Understand the concept of web services
- Create and consume a RESTful API
- Create and consume SOAP web service
- Learn and Understand web service message format

## Course content

1. **Introduction to web service**
   - Meaning of webservice
   - SOAP web services
   - RESTful APIs
2. **Web service Message formats**
   - JSON basics
   - XML basics
3. **Web services module discussion forum**
4. **Web services survey(optional)**

## References

Books:

- "Web Services: Principles and Technology" by Michael Papazoglou and Dieter Fensel
- "RESTful Web Services" by Leonard Richardson, Sam Ruby, and Mike Amundsen
- "SOA Principles of Service Design" by Thomas Erl