

Geographic Information System (GIS)		
Course Name	Level	Duration
1. Introduction to ArcGIS	Basic	3 days
Description : ArcGIS Desktop is ESRI's full-featured GIS software for visualizing, creating, managing, and analyzing geographic data. This course provides the foundation for becoming a successful ArcGIS Desktop user. Students learn fundamental GIS concepts and become familiar with the range of functionality available in the software. In course exercises, they work with ArcGIS Desktop and see how it provides a complete GIS software solution.		
2. Introduction to MapInfo Professional	Basic	2 days
Description : The course is aimed at those who are new to MapInfo™, or at those at a novice level. The aim is to give users confidence to use the power of GIS and MapInfo™ to display, manipulate and analyse information geographically, with the result that they are able to make more informed decisions.		
3. Working with MapInfo Professional	Intermediate	1 day
Description : This course is designed to introduce the fundamentals of MapInfo Professional in an instructor-led, hands-on environment course provides basic instruction.		
4. Working with Geodatabase	Intermediate	2 days
Description : This course provides an overview of the structure and capabilities of the geodatabase. Students learn how to create a geodatabase, migrate existing GIS data to a geodatabase, and edit and maintain data stored in a geodatabase. The course covers some advanced geodatabase topics including how to build a geodatabase topology; maintain data integrity using subtypes, attribute domains, and relationship classes; and create a geodatabase schema. In course exercises, students work with the file geodatabase and learn how to migrate personal geodatabase data to a file geodatabase and create various geodatabase components. This course is taught using an ArcInfo license of ArcGIS since many of the advanced features of the geodatabase require an ArcEditor or ArcInfo license.		
5. Introduction to ArcGIS Server	Intermediate	3 days
Description : ArcGIS Server provides a complete server-based GIS system that supports the use of centrally managed spatial data for mapping and analysis. This course introduces ArcGIS Server and teaches how to install, configure, and use the product as administrators and consumers of GIS services. Students learn how to publish maps, globes, and geoprocessing models that are optimized for performance. Students also create out-of-the-box Web applications using Manager and learn how to use GIS services in both Web applications and ArcGIS Explorer.		
6. Data Management in the Multiuser Geodatabase	Intermediate	2 days
Description : ArcSDE technology is an integrated part of ArcGIS Server and is used to access multiuser geographic databases stored in relational database management systems (RDBMS). This course prepares GIS and database administrators to implement an ArcSDE geodatabase by teaching how to load and manage ArcSDE data. The course presents concepts applicable to both workgroup and enterprise ArcSDE		

geodatabases but focuses primarily on the enterprise ArcSDE geodatabase. Students learn the basic architecture of a multiuser geodatabase and are introduced to ArcSDE connection types. The course focuses on loading and managing vector and raster data and emphasizes best practices for interacting with a multiuser geodatabase. Students explore multiuser geodatabase design strategies and editing options for data stored in a multiuser geodatabase, including versioning.

7. Developing Applications with ArcGIS Server Using the Microsoft .NET Framework	Advance	2 days
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Description :
 ArcGIS Server provides a set of software components and a framework for developing centrally managed GIS applications. This advanced course introduces the ASP.NET Web Application Developer Framework (ADF) and teaches how to build custom ArcGIS Server applications. Students learn about the available libraries, application programming interfaces (API), and server development guidelines, and how to develop different types of Web applications. In course exercises, students build applications ranging from ASP.NET Web applications that use the ADF Web controls to ArcGIS Explorer custom tasks and server object extensions. Students also learn how to extend the ADF with custom buttons and tools through the new task framework.

8. ArcGIS 3D Analyst	Advance	2 days
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Description :
 ArcGIS 3D Analyst software provides advanced tools for three-dimensional modeling and analysis. This course teaches what a surface model is and shows how to create both raster and vector surfaces. Working mostly with models of terrain, students display surfaces in three-dimensional perspective, symbolize them, and set three-dimensional properties. Students also create realistic models by draping aerial photographs over surfaces and displaying two-dimensional features in three dimensions.

9. ArcGIS Spatial Analyst	Advance	2 days
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Description :
 Explore how ArcGIS Spatial Analyst software uses raster and vector data in an integrated environment. This course teaches basic raster concepts and shows how to use ArcGIS Spatial Analyst tools to create, run, and edit spatial models. It focuses on problems that are best solved in a raster environment such as surface analysis and distance measurement. Participants are shown how to use the raster tools in ArcGIS Spatial Analyst and learn how to build grid-based data sets. This course is for those who want to use ArcGIS Desktop applications to conduct raster-based analysis, conversion, and editing.

10. ArcGIS Network Analyst	Advance	2 days
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Description :
 The ArcGIS Network Analyst extension allows you to build a network dataset and perform analysis on a network dataset. This extension is composed of a number of parts: a wizard to create a network dataset (in ArcCatalog), a dockable Network Analyst window (in ArcMap), a Network Analyst toolbar (in ArcMap), and a number of geoprocessing tools contained within ArcToolbox.