

Lecture 00

Course Introduction

Geospatial Development with Python

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Outline

- Introduction
- What should you expect to learn?
- What I expect from you?
- Major topics to be covered
- Lab exercises
- Evaluation and marks distribution
- Books and other reading material
- Survey – what you know already

Introduction

- GIS
 - Programming
 - Scripting
 - Automation
 - Customization
 - **Development**

Introduction

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What should you expect?

- Programming with Python
- GIS programming with Python
 - Write programs
 - Develop applications
- Lab exercises, tasks
- Home assignments
- Frequent quizzes - **always surprising**

What are my expectations?

- Strong GIS concepts
- Know at least one programming language
- Participate actively in the class
- Submit deliverables always on time – DEADLINES
- Lab participation
- MS thesis ???

CAUTION !!! Plagiarism is dealt strictly

Major Topics – In Class

- Part -I
 - Python -very brief
- Part- II
 - Development
- Part – III (Tentative)
 - Case studies

Lab Work

- >>> Python
 - Vector data handling and processing
 - Raster data handling and processing
 - Data Visualization

Marks Distribution - Tentative

	No.	%
Quiz	01/week	10
Assignment	01/week	15
OHT	1-3	20
Final Exam	1	25
Project	1	30
		100

IST Grading Policy

Highest	Lowest	Letter
100.00 %	85.00 %	A
84.99 %	81.00 %	A-
80.99 %	77.00 %	B+
76.99 %	73.00 %	B
72.99 %	69.00 %	B-
68.99 %	65.00 %	C+
64.99 %	61.00 %	C
60.99 %	0.00 %	F

Course Website

<http://grel.ist.edu.pk/lms/course/view.php?id=69>

Enrollment key: 5352017

Books

