#### 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

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# What should you expect?

- Programming with Python
- GIS programing 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**

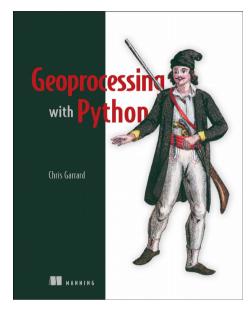
Highest	Lowest	Letter
100.00 %	85.00 %	Α
84.99 %	81.00 %	Α-
80.99 %	77.00 %	B+
76.99 %	73.00 %	В
72.99 %	69.00 %	B-
68.99 %	65.00 %	C+
64.99 %	61.00 %	С
60.99 %	0.00 %	F

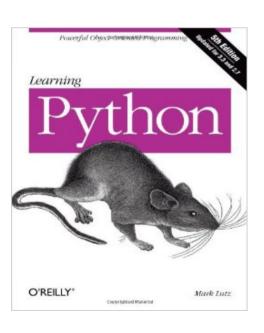
### **Course Website**

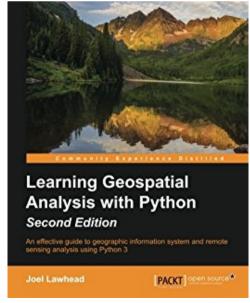
http://grel.ist.edu.pk/lms/course/view.php?id=69

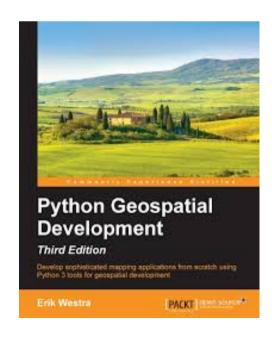
Enrollment key: 5352017

### **Books**









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Geospatial Development with Python