

```
6 require 'spec_helper'
7 require 'rspec/rails'
8
9 require 'capybara/rspec'
10 require 'capybara/rails'
11
12 Capybara.javascript_driver = :webkit
13 Category.delete_all; Category.create
14 Shoulda::Matchers.configure do |config|
15   config.integrate do |with|
16     with.test_framework :rspec
17     with.supported_ruby_version :>= 2.0.0
18   end
19 end
20
21 # Add additional requires below this line. Make sure they are
22 # Requires supporting ruby that will work on older versions of
23 # spec support/ and its dependencies. You may need to
24 # require 'spec_helper' by default. You may want to
25 # in _spec.rb. Both be required by default. You may want to
26 # require 'spec_helper' twice. It is recommended to
27 # require 'spec_helper' in _spec.rb. You can use
28 # require 'spec_helper' in _spec.rb. You can use
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100 # require 'spec_helper' in _spec.rb. You can use
```

3G IRPS  
PRESENTS

PYTHON

COURSE



3G IRPS  
RESEARCH PARK

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RESEARCH PARK

# PYTHON HANDS ON WORKSHOP

## Course outcomes

- Students can have hands on experience in AI & IoT services
- Students can participate in solving their technology based problems or can work on used cases.
- Students will also gain a certificate from 3G IRPS, IIT Madras Research Park
- Insights on IBM Watson services.

## Course Curriculum

### Day 1 :

- Introductory Remarks about Python
- Strengths and Weakness
- Installing Python and setting up environment
- Environment Variables
- Dynamic Types
- Python Reserved Words
- Naming Conventions
- Basic Python Syntax
- Basic Syntax
- Comments

### Day 2:

- String Values
- String Operations
- String Slices
- String Operators
- Numeric Data Types
- Conversions
- Simple Input and Output
- The print Function
- Control Flow and Syntax
- Indenting
- The if Statement
- Relational Operators
- Logical Operators
- True or False
- Bit Wise Operators

# PYTHON HANDS ON WORKSHOP

## Day 3:

- The while Loop
- break and continue
- The for Loop
- Lists
- Tuples
- Sets
- Dictionaries

## Day 4:

- Defining Your Own Functions
- Parameters
- Variable Number of Arguments
- Passing Functions to a Function
- Classes and instances
- Classes method calls
- Inheritance and composition

## Day 5:

- Polymorphism
- Super method
- Errors and Exception Handling
- Opening file
- Data streams
- File read and writes operations
- Working with directories

## Day 6:

### Projects:

- Based On Current Industrial problems or Domain based Problems



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