



AY 2020 Onwards

Hindi Vidya Prachar Samiti's
RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)
(Also known as **R. J. College of Arts, Science & Commerce** as per UGC Notification)

Affiliated to UNIVERSITY OF MUMBAI II Recognized by UGC under 2f & 12B
NAAC Accredited 'A GRADE' with CGPA 3.50

Knowledge is all Ambrosia

**CERTIFICATE
COURSE IN**

**Basics of
Python
Programming**

A

T

S

M

C



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Opposite Railway Station, Ghatkopar (W),
Mumbai 400 086, Maharashtra, INDIA.



ABOUT US

Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community. Ramniranjan Jhunjhunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.I., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccredited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai. The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with "JAAGAR JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.

Course Code: **RJITC01**

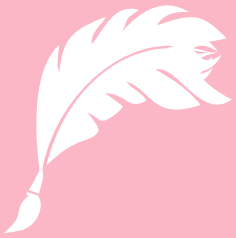
Duration: **30** hours

Credits : **02**

ABOUT COURSE

This course aims to teach the basics of programming using Python .Introduce the core data structures of the Python programming language. Explore the complex ways of handling data, including files,tuples , lists, and dictionaries for building complex programs.Learn to build applications which interact with the MySql database.





COURSE OBJECTIVE

This course is designed to become Intermediate Python programmers who want to level up their skills

COURSE CONTENT

Module	Topics	Hours
I	Introduction to Python Programming	3
	Introduction, Operators and Expressions, Decision, Statements, Loop Control Statements, Functions	
II	Strings, Lists, Tuples and Dictionaries	3
	1 Strings, Lists, Tuples, Dictionaries	
III	Object Oriented Programming in Python	3
	1 Classes and Objects, Inheritance, Data Encapsulation, Data Hiding	
IV	File Handling and Exception Handling	3
	File Handling, Exception Handling	
V	Modules and Packages	3
	Modules, Packages	
VI	GUI	5
	1 Adding Widgets, Layout Management, Look and feel Customization, 4 Using Turtle Module	
VII	Storing Data in Our MySQL Database via Our GUI	5
VIII	Developing a Mini Project	5

COURSE OUTCOME

- Understand the of basics of Python Programming
- Learn to implement Object Oriented Programming concepts
- Design an interactive GUIs in Python
- Learn the basic of database design for storing ,processing and retrieving data
- Will be able to build solution to real time problems through python programming



EVALUATION

Mode of Assessment	Maximum Marks (50)	Minimum Marks (20)
Programming Exercise	20	8
Assignment	40	16
Project	40	16

100 MARKS



PASSING 40

WHO SHOULD DO

The learner should have basic programming knowledge.

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