

**5 days Online Certification Course  
/ Workshop on**

**"How to develop Pythonic coding  
rather than Python coding – Logic  
Perspective"**

**21<sup>st</sup> June 2020 - 25<sup>th</sup> July 2020**

**ORGANIZING COMMITTEE**

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Chairman, AEF

**Patron : Sri. Vivek Alva**  
Managing Trustee, AEF

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**Coordinator : Ms. Shilpa**  
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**Alva's Institute of  
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574225**

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**Accredited by NBA (CSE & ECE)**



**Certification Course / Workshop on**

**"How to develop Pythonic coding  
rather than Python coding-Logic  
Perspective"**

**In association with  
CSI Chapter**



**Highlights of the Workshop**

- Practical exercises assigned amidst the lecture hours
- Practical Hands-on sessions through Google Colab
- Emailing – exercises, case study problems, study materials and training PPT's to participants
- Certificate of participation after attending all sessions

**Resource Persons**

**Dr. S. Mohideen Badhusha,**  
Sr. Professor  
Department of CSE, AIET, Mijar

**Organized By**

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## ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Alva's Institute of Engineering and Technology, Mijar, Moodbidri is a premier Engineering Institute of Alva's Education Foundation, established in the year 2008, located adjacent to Mangalore-Sholapur National Highway, which is 24 Kms from Mangalore International Airport. The college is recognized by All India Council for Technical Education (AICTE), New Delhi & Affiliated to Visvesvaraya Technological University, Belagavi. The college is ranked as one of the best Technical Institute in South Canara region. The institute offers under graduate programs in 5 branches of Engineering – Computer Science & Engineering, Civil Engineering, Electronics & Communications Engineering, Information Science & Engineering, Mechanical Engineering, Computer Science & Engineering, VLSI Design & Embedded Systems. Seven departments at the institute has been recognized as research centers by Visvesvaraya Technological University, Belagavi.

### Department of Computer Science and Engineering

Department of Computer Science and Engineering started functioning from the year 2008, with an intake of 60 and has enhanced to 120 from academic year 2012-13. The Post Graduate course, M.Tech in Computer Science and Engineering, was introduced from the academic year 2012-13 with an intake of 18 students. Department is recognized as a research centre from VTU. Faculty members are actively involved in co-curricular and extracurricular activities with association and professional bodies like CSI/ISTE. Department of Computer Science & Engineering has always been on a high growth and path since its establishment. To keep pace with latest technologies, department has employed experienced and dedicated faculty with strong commitment towards research work. The department is dedicated to education, research and overall excellence. For skill development Department have highly equipped add-on labs like Envision lab, Innovation Lab and iOS Lab.

The students are well placed in reputed industries as well as continuing higher education in the premier institutes. The Department of CSE organizes various events such as workshops, Seminars, Technical talks, delivered by eminent resource persons from academia & industry, who have excelled in their field.

The department regularly conducts special courses on advanced topics. Department of CSE encourages the faculty and students for participating in research activities for enhancing their subject knowledge and acquire information regarding current trends.

### VISION OF THE DEPARTMENT

"Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques"

### MISSION OF THE DEPARTMENT

- To produce skilled, creative software developers through rigorous training.
- To conduct specific technical courses to keep abreast to the latest technological developments and transformations in the domain.
- To implement the ideas of research and innovations in interdisciplinary domains.
- To establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.

### PROGRAM SPECIFIC OUTCOMES

**A graduate of the Computer Science and Engineering Program will exhibit:**

**PSO1: Professional Skills:** The ability to understand & implement the computer programs in the areas of Computer Architecture, System Software, Database Management Systems, Web Design, Multimedia and Computer Networking.

**PSO2: Problem-Solving Skills:** The ability to solve real-world problems by suitable mathematical model with strong technological concepts in rapidly growing arena of computer technology.

**PSO3: Successful Career and Entrepreneurship:** Knowledge in diverse areas of Software Engineering and Management & Entrepreneurship for IT Industry, conducive in cultivating skills for successful career development.

### PROGRAM EDUCATIONAL OBJECTIVES

**The graduates of Computer Science & Engineering will able to**

**PEO1:** Exhibit fundamental strength in core courses of Computer Engineering to solve the problems of computing world.

**PEO2:** Adapt and contribute the emerging technological changes.

**PEO3:** Employed in computing profession or engaged in learning to pursue higher studies.

### ABOUT WORKSHOP

If you're new to Programming, and Python in particular, you might have heard the term Pythonic being brought up at tech conferences, meetups and even at your own office. You might have also wondered why the term and whether they're just talking about writing Python code. In this workshop you are going to understand what the term Pythonic means and why you should be interested in learning how to write Pythonic code rather than writing Python code. Most of the Python beginners are not understood how a python program can be written effectively. They write the Python program as they develop other programming languages such as C, C++ and Java. The customary coding of Python make the coding very verbose and ineffective. The uniqueness the Python lies in the way it has to be written using fantastic data structures and strategies available in Python.

In this regard, the workshop imparts the knowledge of writing effective pythonic coding. The workshop is conducted in view of disseminating the knowledge and expertise as well as training to the participants in interview point of view also

### TARGET AUDIENCE

All the 3<sup>rd</sup> year and 2<sup>nd</sup> year interested Students of AIET, Mijar.

### Workshop /Certification Course Schedule

5 days Online Workshop on 'How to develop a Pythonic coding rather than Python coding – Logic Perspective'

Day	Session	Portions/ Activities	Duration
DAY 1 (21/07/2020)	<b>Session 1</b> (10.00 am – 1.00 pm)	Basic programming constructs in Python– Exercises. (Lecture and Demonstration-40 minutes) (Hands-on -20 minutes)	<b>3 Hours</b>
	<b>Session 2</b> (2.00 pm -5.00 pm)	Iteration and Strings - Exercises. (Lecture and Demonstration). (Hands-on -20 minutes)	<b>3 Hours</b>
DAY 2 (22/07/2020)	<b>Session 1</b> (10.00 am – 1.00 pm)	Lists & Tuples – Exercises. (Lecture and Demonstration-60 minutes) (Hands-on -60 minutes)	<b>3 Hours</b>
	<b>Session 2</b> (2.00 pm -5.00 pm)	Dictionary & File– Exercises. Lecture and Demonstration-40 minutes) (Hands-on -20 minutes)	<b>3 Hours</b>
DAY 3 (23/07/2020)	<b>Session 1</b> (10.00 am – 1.00 pm)	Case studies – ‘How to build Pythonic code in Iteration and strings ?’ with complete hands-on session using google colab	<b>6 Hours</b>
	<b>Session 2</b> (2.00 pm -5.00 pm)		
DAY 4 (24/07/2020)	<b>Session 1</b> (10.00 am – 1.00 pm)	Case studies – ‘How to build Pythonic code in List, Tuple and Dictionary?’with complete hands-on session using google colab	<b>6 Hours</b>
	<b>Session 2</b> (2.00 pm -5.00 pm)		
DAY 5 (25/07/2020)	<b>Session 1</b> (10.00 am – 1.00 pm)	Case studies – ‘How to build Pythonic code in Sets, Strings, File operations?’ with complete hands-on session using google colab	<b>6 Hours</b>
	<b>Session 2</b> (2.00 pm -5.00 pm)		