ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K –574225

Phone : 08258-262725 , Fax : 08258-262726

Department of Electronics and Communication Engineering

ALVA'S
Education Foundation

A Report on

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

ACADEMIC YEAR

2019-2020

Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225
Phone: 08258-262725, Fax: 08258-262726

Ref No: AIET/EC/CC/2019-2020/002   Date: 15/07/2020

From,

    Dr. D V Manjunatha
    Department of ECE
    Alva's Institute of Engineering and Technology
    Moodbidri.

To,

    The Principal
    Alva's Institute of Engineering and Technology
    Moodbidri.

Respected Sir,

    Sub: - **Approval for Organizing the Online Certification/Training Program on "How to develop Pythonic coding rather than Pythoncoding– Logic Perspective"-Reg.**

With reference to the above subject, we are planning to conduct an Online certification course/ Workshop on "**How to develop Pythonic coding rather than Python coding – Logic Perspective**" from "**21st July 2020 to 25th July 2020**".

So I kindly request you to grant the permission for conducting the online certification course on the mentioned dates.

Thanking you

Your's faithfully

D.V.

Dr. D V Manjunatha
HOD
AIET, Moodbidri
H. O. D.
Of Electronics & Communication
stitute of Engg & Technology
Mijar, MOODBIDRI - 574 225

Dr. Peter Fernandes
Principal
AIET, Moodbidri
PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar. MOODBIDRI - 574 225, D.K

Department of Electronics and Communication Engineering

Date: 24/09/2020

Circular

The Online Certification course/ Workshop on How to develop Pythonic coding rather than Python coding – Logic Perspective will be conducting from 21st July 2020 to 25th July 2020. All 3rd year students are hereby informed to attend and actively participate in the course and also 2nd year students who have registered for the course are informed to attend and actively participate in the course.

HOD
Dr. D V Manjunatha
H. O. D.
Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

Alva's Institute of Engineering & Technology

Shobhavana, Mijar, Moodbidri –574225

Web: aiet.org.in

Accredited by NBA (ECE)

Department of Electronics and Communication Engineering is Organizing

Five Days Online Workshop on

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

21st July 2020 - 25th July 2020

Coordinated By

Dr. D V Manjunatha

Professor & Head, Dept. of ECE

Resource Person

Dr. S. Mohideen Badhusha

Professor

Department of CSE, AIET, Mijar

Highlights of Workshop

- Practical exercises assigned amidst the lecture hours.
- Hands-on training for all sessions.
- To inculcate the knowledge of developing Pythonic coding with Case-Studies using Google Colab.

Expected Outcomes

- The students will be able to write programs with complete understanding of the logics.
- The students will become better programmers with good reasoning at their interviews.
- The logical building ability of the students will get improved by continuous and rigorous practices.
- They will complete the Case studies and post it in Hitgub repository in Google Colab file format.

Registration

Kindly confirm your participation in the following link

https://forms.gle/985DW8A78Utwi6dn7

Faculty Coordinator : **Mrs. Nishma**
Assistant Professor, Dept. of ECE
Ph No: 9663691775

Registration Fee: Free of Cost

Last Date for Registration: 16/07/2020 7.00pm.

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 ELECTRONICS AND COMMUNICATION ENGINEERING

Department of Electronics & Communication at Alva's Institute of Engineering and Technology was started in the year 2008-09. The department is affiliated to Visvesvaraya Technological University (VTU) and was recognized as Research Centre of VTU in the year 2017- 18 and accredited by NBA in 2019-20. The department has an intake of 120 aspirants per year. The department has well-equipped classrooms and computer laboratories with high-end systems as per the AICTE norms. The syllabus encompassing the latest technologies, excellent laboratory facilities and exemplary faculties are the main reasons for the prized status accorded to this course.

ECE is one of the renowned branches in the field of Engineering, have proved time and again, that they play a pivotal role in both the developing and well-being of our society in the fast paced human life. E&C branch is concerned with the design, development, manufacture and application of electronic devices, circuits and systems. The department has well-qualified, experienced and research oriented faculty.

VISION OF THE DEPARTMENT

"Centre of Excellence to Empower the young minds in the field of Electronics and Communication Engineering with research focus and skill development through Transformative Education catering to the needs of the Society".

MISSION OF THE DEPARTMENT

• To create Learning Environment to enable the Students for Excellence in the field of Electronics and Communication Engineering.
• To Empower the Students with necessary Skills for Solving the Complex Technological Problems.
• To Inculcate Research Culture among Teaching-Learning Group by guiding them towards Research Activities to bridge the gap between Industry and Academia.
• By Imbibing the Students with Human Values and Ethics through Transformative Education and make them Socially Responsible Professionals.

PROGRAM SPECIFIC OUTCOMES

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

PSO1: Understand and apply the principles of Science and Engineering in the field of Electronics and Communication.

PSO2: Ability to design and implement systems using the concepts of Analog & Digital Electronics, Communication & Networking, Signal Processing, Embedded Systems and Semiconductor technology to solve complex problems.

PSO3: Develop proficiency to use modern Hardware and Software tools in the area of Electronics and Communication Engineering.

PROGRAM EDUCATIONAL OBJECTIVES

The graduates of Computer Science & Engineering will able to

PEO1: Apply Mathematical, Scientific and Engineering fundamentals for problem solving.

PEO2: Expose to Emerging Technologies and pursue higher studies or do research.

PEO3: Become Competent and Employable with necessary skills.

PEO4: Inculcate Professional and Ethical attributes and contribute to Society as responsible Citizen.

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 makes 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

The workshop is open for students and faculty of AICTE / UGC approved Engineering and Technology Institutions.

Alva's Institute of Engineering & Technology
Shobhavana Campus, Mijar, Moodbidri, D.K – 574225
Phone: 08258-262725, Fax: 08258-262726

Attendance of Online Certification course on "How to develop Pythonic coding rather than Python coding–Logic Perspective"

USN	NAME	Date									
		7/21/2020	7/21/2020	7/22/2020	7/22/2020	7/23/2020	7/23/2020	7/24/2020	7/24/2020	7/25/2020	7/25/2020
4AL17EC001	Abhishek	1	2	3	4	5	6	7	8	9	10
4AL17EC002	Abhishek M Shastry K	1	2	3	4	5	6	7	8	9	10
4AL17EC003	AbhishekVasudev	1	2	3	4	5	6	7	8	9	10
4AL17EC004	Ajitha	1	2	3	4	5	6	7	8	9	10
4AL17EC005	AkshanSandeep D Souza	1	2	3	4	5	6	7	8	9	10
4AL17EC006	Akshatha M Deshpande	1	2	3	4	5	6	7	8	9	10
4AL17EC007	AkshathaRanganath	1	2	3	4	5	6	7	8	9	10
4AL17EC008	Akshay	1	2	3	4	5	6	7	8	9	10
4AL17EC009	Bhavith	1	2	3	4	5	6	7	8	9	10
4AL17EC010	BhoomikaRamachandra	1	2	3	4	5	6	7	8	9	10
4AL17EC011	Bindushri	1	2	3	4	5	6	7	8	9	10
4AL17EC012	Brunda H Y	1	2	3	4	5	6	7	8	9	10
4AL17EC013	Brunda P D	1	2	3	4	5	6	7	8	9	10
4AL17EC015	Chandan C	1	2	3	4	5	6	7	8	9	10
4AL17EC018	Chandana G S	1	2	3	4	5	6	7	8	9	10
4AL17EC020	Channabasava	1	2	3	4	5	6	7	8	9	10
4AL17EC021	Chethan Kumar	1	2	3	4	5	6	7	8	9	10
4AL17EC023	Darshan H B	1	2	3	4	5	6	7	8	9	10
4AL17EC025	Dhamini C L	1	2	3	4	5	6	7	8	9	10
4AL17EC026	DhanyaShetty	1	2	3	4	5	6	7	8	9	10
4AL17EC027	Dhavala	1	2	3	4	5	6	7	8	9	10
4AL17EC029	Disha	1	2	3	4	5	6	7	8	9	10
4AL17EC030	Divyashree L V	1	2	3	4	5	6	7	8	9	10
4AL17EC031	DivyashriBahubali	1	2	3	4	5	6	7	8	9	10

4AL17EC032	Gagan M K	1	2	3	4	5	6	7	8	9	10
4AL17EC034	Harsha P	1	2	3	4	5	6	7	8	9	10
4AL17EC035	HemalathaSanil	1	2	3	4	5	6	7	8	9	10
4AL17EC036	JagadeeshaHegde	1	2	3	4	5	6	7	8	9	10
4AL17EC037	Jyoti S Donur	1	2	3	4	5	6	7	8	9	10
4AL17EC038	K Muthu	1	2	3	4	5	6	7	8	9	10
4AL17EC040	Kavya M M	1	2	3	4	5	6	7	8	9	10
4AL17EC041	KishanShetty	1	2	3	4	5	6	7	8	9	10
4AL17EC042	Kishore N	1	2	3	4	5	6	7	8	9	10
4AL17EC043	Lavanya B	1	2	3	4	5	6	7	8	9	10
4AL17EC044	Lepakshi T V	1	2	3	4	5	6	7	8	9	10
4AL17EC045	M V Ramya	1	2	3	4	5	6	7	8	9	10
4AL17EC046	MadiwalarAkshata	1	2	3	4	5	6	7	8	9	10
4AL17EC047	MadugondeManjunatha	1	2	3	4	5	6	7	8	9	10
4AL17EC048	Mahesh H	1	2	3	4	5	6	7	8	9	10
4AL17EC049	Mamatha V R	1	2	3	4	5	6	7	8	9	10
4AL17EC050	Manjunatha H K	1	2	3	4	5	6	7	8	9	10
4AL17EC053	Mohanababu D G	1	2	3	4	5	6	7	8	9	10
4AL17EC055	Mounitha D M	1	2	3	4	5	6	7	8	9	10
4AL17EC057	NagaGanesh N	1	2	3	4	5	6	7	8	9	10
4AL17EC058	Namratha J Nair	1	2	3	4	5	6	7	8	9	10
4AL17EC060	Navya	1	2	3	4	5	6	7	8	9	10

4AL17EC061	Bhargavi	1	2	3	4	5	6	7	8	9	10
4AL15EC043	Madhu B Gaurav	1	2	3	4	5	6	7	8	9	10

4AL16EC037	Mirza	1	2	3	4	5	6	7	8	9	10
4AL16EC101	Raviteja G	1	2	3	4	5	6	7	8	9	10
4AL17EC024	Deeksha	1	2	3	4	5	6	7	8	9	10
4AL17EC062	NiharikaNarayana L	1	2	3	4	5	6	7	8	9	10
4AL17EC063	Nishantha V R	1	2	3	4	5	6	7	8	9	10
4AL17EC064	P V SaiSuraksha	1	2	3	4	5	6	7	8	9	10
4AL17EC065	Padmashree B S	1	2	3	4	5	6	7	8	9	10
4AL17EC066	Padmini M	1	2	3	4	5	6	7	8	9	10
4AL17EC068	Pavithran S	1	2	3	4	5	6	7	8	9	10
4AL17EC069	Persis P	1	2	3	4	5	6	7	8	9	10
4AL17EC070	Pooja K S	1	2	3	4	5	6	7	8	9	10
4AL17EC071	Poorvi H J	1	2	3	4	5	6	7	8	9	10
4AL17EC072	Pragati M Kundalkar	1	2	3	4	5	6	7	8	9	10
4AL17EC073	PrajwalKamagethi	1	2	3	4	5	6	7	8	9	10
4AL17EC074	PrashanthaNaik	1	2	3	4	5	6	7	8	9	10
4AL17EC075	PrinciaMelitaDsouza	1	2	3	4	5	6	7	8	9	10
4AL17EC076	RajeshwariGadagi	1	2	3	4	5	6	7	8	9	10
4AL17EC077	Rashmitha	1	2	3	4	5	6	7	8	9	10
4AL17EC079	RohanShetty	1	2	3	4	5	6	7	8	9	10
4AL17EC080	Roshni A B	1	2	3	4	5	6	7	8	9	10
4AL17EC083	Sahana S R	1	2	3	4	5	6	7	8	9	10
4AL17EC084	Sanketha S Acharya	1	2	3	4	5	6	7	8	9	10
4AL17EC086	Shilpa C	1	2	3	4	5	6	7	8	9	10
4AL17EC090	Sushmitha R Naik	1	2	3	4	5	6	7	8	9	10
4AL17EC091	Swastik R Gowda	1	2	3	4	5	6	7	8	9	10
4AL17EC092	Varshitha S	1	2	3	4	5	6	7	8	9	10
4AL17EC093	Varun G Shetty	1	2	3	4	5	6	7	8	9	10

		1	2	3	4	5	6	7	8	9	10
4AL17EC095	VidulSambhajiChavan	1	2	3	4	5	6	7	8	9	10
4AL17EC096	YalpiNandika	1	2	3	4	5	6	7	8	9	10
4AL17EC097	Yamunashree N	1	2	3	4	5	6	7	8	9	10
4AL17EC098	Yashaswini R	1	2	3	4	5	6	7	8	9	10
4AL17EC099	Yashwitha C N	1	2	3	4	5	6	7	8	9	10
4AL17EC100	Yathish S Rao	1	2	3	4	5	6	7	8	9	10
4AL17EC101	Bindu N R	1	2	3	4	5	6	7	8	9	10
4AL17EC102	Sushmitha	1	2	3	4	5	6	7	8	9	10
4AL17EC103	Sachin	1	2	3	4	5	6	7	8	9	10
4AL17EC104	Nikhil	1	2	3	4	5	6	7	8	9	10
4AL17EC105	Akash	1	2	3	4	5	6	7	8	9	10
4AL17EC106	Harshitha T	1	2	3	4	5	6	7	8	9	10
4AL17EC107	K B Kushi	1	2	3	4	5	6	7	8	9	10
4AL17EC108	Rachana	1	2	3	4	5	6	7	8	9	10
4AL18EC400	SushanthPoojari	1	2	3	4	5	6	7	8	9	10
4AL16EC032	Krishna Swetha	1	2	3	4	5	6	7	8	9	10
4AL16EC035	Mamatha M	1	2	3	4	5	6	7	8	9	10
4AL16EC046	PoojarySushmita	1	2	3	4	5	6	7	8	9	10
4AL16EC055	Ramya	1	2	3	4	5	6	7	8	9	10
4AL16EC065	Sathya B R	1	2	3	4	5	6	7	8	9	10
4AL16EC029	Karegowda K N	1	2	3	4	5	6	7	8	9	10
4AL16EC409	Rakshith B	1	2	3	4	5	6	7	8	9	10
4AL16EC073	Shravan V Acharya	1	2	3	4	5	6	7	8	9	10

H. O. D.
Dept. Of Electronics & Communication
Alva' : Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

REPORT ON

How to develop Pythonic coding rather than Python coding – Logic Perspective-Certification Course

A **Five days** certification/workshop Programme on "**How to develop Pythonic coding rather than Python coding – Logic Perspective**" conducted from 21.07.20 to 25.07.20 for all **the students from II and III years of CSE, ECE and ISE of AIET for around 250 students.** This workshop has been organized by Department of Computer Science and Engineering and Electronics and Communication Engineering in Association with CSI Bangalore.

The workshop was inaugurated by **Dr. D.V Manjunatha, HOD / ECE,** all the students of II and III years of CSE, ECE and ISE were present online during the inauguration function along with the resource persons **Dr.S.Mohideen Badhusha/Professor,CSE .**

Dr. D.V Manjunatha has given a brief about the Pythonic workshop. He emphasizes on the need for learning the Pythonic coding which is very much oriented and he discusses outcomes of this 4days workshop

The workshop coordinators **Miss. Shilpa prof/CSE and Mrs. Nishma, prof/ECE** have given the resource person introduction and detailed instructions of 5 days workshops. They explained and how the exercises of 5 days workshops can be obtained from Github repository and how the solved exercises have to be submitted onto Github repository.

Online Workshop on 'How to develop Pythonic coding rather than Python coding – Logic Perspective'
21.7.20 Day 1 session 1

Dr. S.Mohideen Badhusha
Professor/ CSE department
Alva's Institute Engineering and Technology
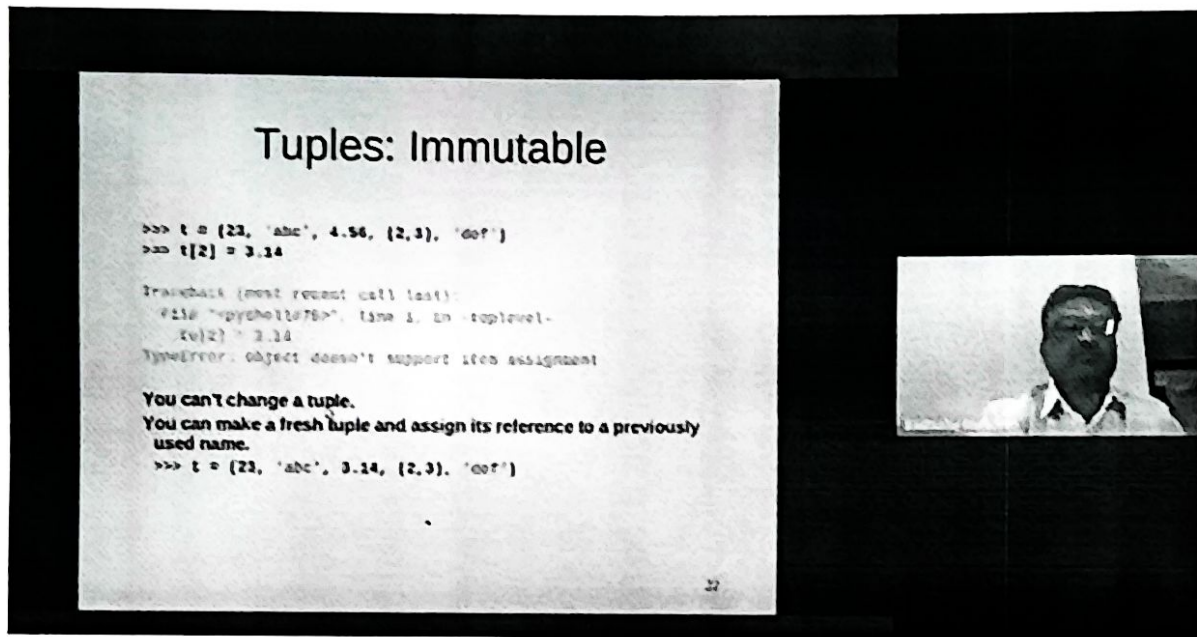Mijar, Moodbidri, Mangalore

Objectives of the Online Workshop

• The workshop imparts a fundamental knowledge in Pythonic coding required for present corporate environment with google colab.

• The practical programming exercises assigned amidst the lecture hours enhance the interest of solving problems in Pythonic coding.

• It provides hands-on training sessions which offer a basic data structures in Python (List, Tuple & Dictionary).

• It provides hands-on training sessions which provide the knowledge of Pythonic coding.

• It provides hands-on training sessions which clearly demonstrate how to write Pythonic coding.

• It finally imparts the knowledge of solving different Case-Studies using Pythonic coding with PEP–8 rules for writing Pythonic coding.

Python is a powerful tool for software development in MNCs. Python is really a great tool, and is becoming an increasingly popular language among coders. The reason being, it's easy to learn, integrates well with other databases and tools like

Spark and Hadoop. Majorly, it has great computational intensity and has powerful data analytics libraries. Python has a rich set of libraries for any scientific computations and data analysis. The following libraries of python such as Numpy, SciPy, Matplotlib, Pandas, SkLearn, RE, Beautiful Soup and scrappy find a wider applications in various domains.

Outcomes

- The students will be able to write programs with complete understanding of the logics.

- The students will become better programmers with good reasoning at their interviews.

- The logical building ability of the students will get improved by continuous and rigorous practices.

- They will complete the Case studies and post it in Github repository in Google Colab file format.

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Department of Electronics & Communication Engineering

Summary Report of Add-on/Certificate program with its Outcomes

Academic Year : 2019-20	Duration: 21-07-2020 to 25-07-2020
Title of the Course: How to develop Pythonic coding rather than Python coding- Logic Perspective.	
Resource Person: Dr.Mohideen Badhushah, Professor, Dept of CSE, AIET, Mijar.	

The department conducted Online certification course on "How to develop Pythonic coding rather than Python coding- Logic Perspective" for 2nd and 3rd year students of Electronics and Communication Engineering from 21-07-2020 to 25-07-2020 by Dr.Mohideen Badhushah, Professor, Dept of CSE, AIET, Mijar.

101 students of 2nd and 3rd year, Electronics and Communication Engineering are benefitted from this course and were able to

- Understand the basic programming constructs in Python.
- Build Pythonic code in Iteration and strings.
- Build Pythonic code in Lists. Tuple and Dictionary.
- Write programs with complete understanding of the logics.

D.V.y

Dr. D V Manjunatha
H. O. D.
Dept. Of Electronics & Communication
Alva' Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 22.

Alva's Institute of Engineering & Technology

(Affiliated to Visvesvaraya Technological University ,Belagavi)
Shobhavana Campus,Mijar,Moodbidri-574225

Certificate of Participation

This is to certify that

YATHISH S RAO

of

Alva's Institute of Engineering and Technology

has participated in a four day online workshop on "How to develop Pythonic coding rather than Python coding – Logic Perspective" from 21st July, 2020 to 25th July, 2020 jointly organized by the Department of Computer Science and Engineering and Department of Electronics and Communication Engineering , Alva's Institute of Engineering and Technology,Mijar.

Dr.S Mohideen Badhusha
Convenor

Dr.Manjunath Kotari
HOD,Dept.of CSE

Dr. D V Manjunatha
HOD,Dept.of ECE

Dr. Peter Fernandes
Principal