



**ALVA'S**  
Education Foundation®

# **ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY**

(A Unit of Alva's Education Foundation)

Shabhavana Campus, Mijar, Moodubidire - 574 225, D.K.

Phone : 08258-262725(P), 262724(O), Telefax - 08258-262726

Affiliated to VTU Belagavi, Approved by AICTE, New Delhi & Recognized by Govt. Karnataka  
(Accredited by NAAC with A+ Grade)

## **PRACTICAL RECORD BOOK**



Name

Alok. G.

USN / Batch

HAL22CG1002

Sem & Section

2nd Sem "F"

Subject Name/Code

Introduction to python programming

Department

Computer Science and Design.

### VISION OF THE INSTITUTE

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community

### MISSION OF THE INSTITUTE

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

### VISION OF THE DEPARTMENT

To be globally recognized center in education, research & innovation in the field of CSD.

### MISSION OF THE DEPARTMENT

To practice the latest industrial trends in teaching process to make students ready for their professional life.

To collaborate with industry & professional bodies for the students.

### COURSE OUTCOMES

CO1	Apply the Basics, Flow Control & Functions of python using simple program
CO2	Develop Data Structures such as lists, Tuples & Data Dictionary using python
CO3	Construct the program in manipulating strings & Read/Write files from OS modules in python.
CO4	Build program based on the concepts of organizing & Defining files
CO5	Experiment with the concepts of object oriented programming classes - object & methods python
CO6	

## PROGRAM OUTCOMES (POs)

PO1	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, Engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
PO2	<b>Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO3	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
PO4	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	<b>Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1	Apply typical software & engineering approaches & practices to develop software project using concept of UML
PSO2	Bring in innovation idea in the area like games, graphics, VR/AR and related field using
PSO3	
PSO4	

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1	Be sensible for & the society as continue through technology to address society through research & innovation
PEO2	in different the format where culture is using friendly competition the assigned tasks & achieve having a update
PEO3	
PEO4	



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## **PRACTICAL RECORD BOOK**



Name

SHARANYA

USN / Batch

4AL22CS131

Sem & Section

II<sup>nd</sup> & G-sec

Subject Name/Code

Introduction to python programming / BPLCK205B

Department

Computer Science and Engineering

### VISION OF THE INSTITUTE

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### MISSION OF THE INSTITUTE

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- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

### 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 establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.
- To implement the ideas of research and innovations in interdisciplinary domains.

### COURSE OUTCOMES

CO1	Demonstrate proficiency in handling loops and creation of functions.
CO2	Identify the methods to create and manipulate lists, tuples and dictionaries.
CO3	Develop a program for string processing and file organization
CO4	Interpret the concepts of Object-oriented Programming as used in python.
CO5	
CO6	

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## PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1	Professional Skills: The ability to understand & implement the computer programs in the areas of computer Architecture, Design, Multimedia & 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 & Entrepreneurship: Knowledge in diverse areas of software Engineering & management Entrepreneurship for IT Industry, conducive in cultivating skills for successful career development
PSO4	

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1	Exhibit the knowledge & skill sets to adapt to the dynamic technological transformation & developments in the field of computer Science and Engineering.
PEO2	Get adapted to a corporate working environment discharging entrusted technological duties competently & be able to stay updated emerging technological changes to initiate a startup
PEO3	Get engaged in an innovative career to exploit new field ideas for gaining social & economic values or to pursue highest studies in the field of research
PEO4	



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## PRACTICAL RECORD BOOK



Name

*hantham J P*

USN / Batch

*UAI70P5015*

Sem & Section

*VI*

Subject Name/Code

*Mobile Application Lab*

Department

*Artificial Intelligence & Machine Learning*

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## VISION OF THE DEPARTMENT

Foster competent professionals by instilling knowledge and skills in the Artificial Intelligence and Machine Learning realm to cater needs of industry and community

## MISSION OF THE DEPARTMENT

- To strengthen the assimilation process of concepts in AI & ML through experiential learning
- To create a better Academia - Industry liaison by means of skill enhanced training
- To develop a support system for Research & Development for broader application in AIML domain
- To promote Entrepreneurial culture through interaction with collaborative knowledge partners

## COURSE OUTCOMES

CO1	Develop Android application by setting up android development environment
CO2	Develop adaptive reporting user interfaces that work across a wide of devices
CO3	Identify key security issues and background work in Android application
CO4	Implement methods in storing sharing & training data in Android application
CO5	Identify the role of <del>Python</del> and security for Android application
CO6	

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## PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1	Understand, analyze & demonstrate knowledge & human cognition, AI/ML in terms of real world problem to meet challenges of future.
PSO2	Integrate AI/ML techniques for industrial application in the areas of autonomous systems, IoT, cloud computing, Robotics, natural language.
PSO3	Develop computational knowledge & project development skills incorporate tools & techniques to solve problems in the areas related to developing.
PSO4	Provide solution to complex problems using the latest hardware & software tools along with analytical skills to arrive at cost-effective and optimal.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1	Expand knowledge in the field of AI & ML
PEO2	Develop a continuous learning attitude ethics & values
PEO3	Self-orient & expand to the innovation entrepreneurship
PEO4	Provide solution for technical & social problem through research & innovation