List of Add on/ Certification Courses offered during A.Y. 2023-24

Sr No	Program Name	Name of Add on /Certificate programs offered	Number of Students completing the course in the year
1	MBA	Digital Marketing	62
		Advance MS- Excel	40
2	MCA	Mern Stack Development	60
		Advance Java Spring Hibernate and collection framework selenium Hands on training	60
3	Mechanical Engineering	Autocad & GD&T	26
		CATIA	29
		Solid works	27
4	Civil Engineering	Autodesk Revit	26
		ETAB	41
		BIM-Revit	20
5	Computer Engineering	Advance Python	289
		Data Science with Python	70
6	Basic Engineering	Spectrum of AI	200
7	Artificial Intelligence and Data Science	Data Science using Python	36

Dr. Soumitra Das
Incharge Principal

Ref: ICEM/MCA/2023-24/   Date: 07/09/2023

Department of MCA

NOTICE

This is to inform all SYMCA (SEM-III) students that, 30Hrs. Certification Course on "MERN Stack Development" is scheduled from 11/09/2023 to 15/09/2023. Attendance will be strictly monitored.

Venue: MCA Classroom 4th floor ICEM

Prof. Milind P. Deshpande
Course Coordinator

Dr. Darshana Desai
HOD-MCA

ICEM/MCA/2023-24

Date: : 07/09/2023

Department of MCA

Session Planner "MERN Stack Development" 2023-2024

Class: SYMCA – Sem III   **Time: 10.00 am to 5.00pm**

Sr. No.	Date	Subject/Topic
1.	11/09/2023	Introduction of Fullstack process and Brief of HTML,CSS,JS
2.	12/08/2023	Reactjs(SETUP OF REACTJS,JSX,LIFE CYCLE OF REACTJS,HOOKS,AXIOS
3.	13/08/2023	Nodejs(http,express,socket I,o,pm2)
4.	14/08/2022	Nosql Database(Mongodb, connectivity with nodejs,mongoose, command how its works with nodejs)
5.	15/08/2023	Scratch to end spotify project

Prof. Milind P. Deshpande
Course Coordinator

Dr. Darshana Desai
HOD-MCA

ICEM/MCA/2023-24   **Date:** 20/09/2023

Department of MCA

Report on 30 Hrs
"MERN Stack Development"

Date: 11/09/2023 to 15/09/2023
Participants: SYMCA students
Venue: SYMCA Classroom
Trainer: Mr. Harsh Sareen ,Freelancer Trainer

Brief Description:

The MERN Stack Development Certification Program for SY MCA students was conducted in the MCA Department from 11/09/2023 to 15/09/2023. The program aimed to provide students with in-depth knowledge and practical experience in various Full Stack Development topics.

Throughout the five sessions, the students were exposed to essential of fill stack development. Each session included both theoretical explanations and hands-on exercises to reinforce learning.

Which also covers the following topics in details with hands on training
1. Introduction of Fullstack process and Brief of HTML,CSS,JS
2. Reactjs(SETUP   OF   REACTJS,JSX,LIFE   CYCLE   OF   REACTJS,HOOKS,AXIOS
3. Nodejs(http,express,socket I,o,pm2)
4. Nosql Database(Mongodb, connectivity with nodejs,mongoose, command how its works with nodejs)
5. Scratch to end spotify project

Finally, the students learned about the MERN Stack Development using above topics and a small project is assigned to them.

The students actively participated in the sessions, and their progress was assessed through
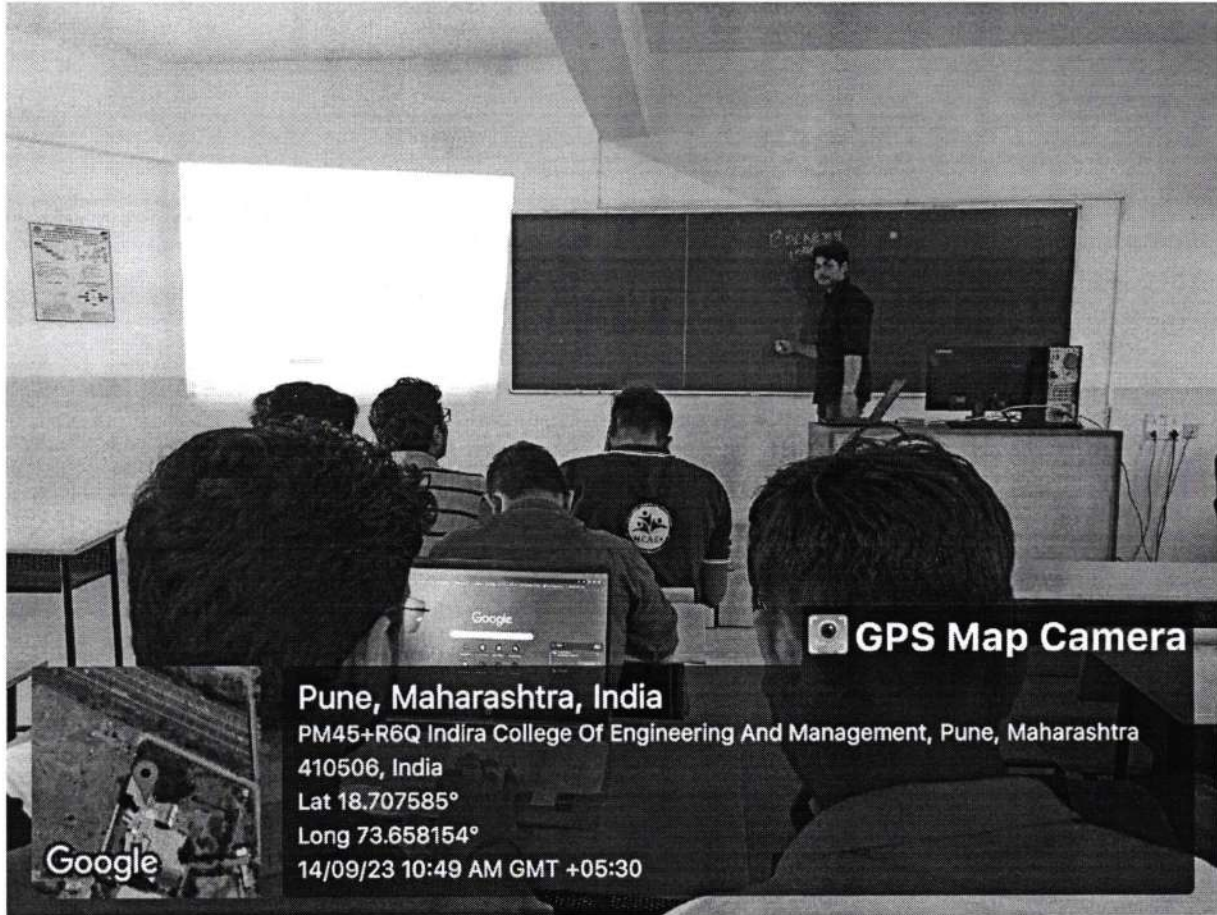
Practical assignments and quizzes. At the end of the program, each student received a certification of completion, acknowledging their dedication and successful completion of the MERN Stack Development Certification Program.

Pune, Maharashtra, India
PM45+R6Q Indira College Of Engineering And Management, Pune, Maharashtra
410506, India
Lat 18.707585°
Long 73.658154°
14/09/23 10:49 AM GMT +05:30

Prof. Milind P. Deshpande
Course Coordinator

Dr.Darshana Desai
HOD-MCA

Introduction to Training Topics

Welcome to our upcoming training program, where we will embark on an exciting journey into the world of Civil Engineering and the powerful tools it encompasses. Over the course of four intensive days, we will dive deep into key topics designed to equip you with practical knowledge and skills that are essential in today's dynamic Civil Engineering landscape.

By the end of these Five days(30 Hr), Students not only have gained a profound understanding of these crucial topics but also practical skills that can propel your career in Civil Engineering forward. We encourage active participation, open dialogue, and hands-on learning throughout the program.

So, let's embark on this knowledge-packed journey together. Get ready to explore, learn, and grow as we dive into the world of Civil Engineering, BIM, Revit, and the exciting possibilities of Artificial Intelligence. Let's make the most of this opportunity to enhance our skills and stay at the forefront of innovation in the industry.

Technical Week		
Course Content		
Days	**Topics**	**Hrs**
Day 1	Mindset of civil student and Indutry requrment	6
	Overview of Building Information Modeling (BIM) and its importance	
	Overview of Revit and its benefits Test 1	
	Artificial intelligence & Civil Industry	
	Basics of Revit	
	Understanding the Interface	
	Navigating the Revit interface, including the Ribbon, Properties panel, and Project browser	
	Customizing the interface and general options, Navigation, Zooming, panning, and rotating the view"	

Day 2	Project 1: Simple House	6	
	Setting up a project		
	Creating levels and walls		
	Selecting objects and using filters		
	Adding floors. doors, windows,		
Day 3	adding components	6	
	Adding families downloading families		
	stairs, and railing		
Day 4	Section	6	
	Camera		
	walkthrough		
Day 5	Rendering	6	
	Sheets		
	LinkedIn profile with respect to Civil Engineer		
	Role Artificial intelligence in Civil Engineering and how to Prepre for new era of A.I. as a Civil Engineer		
	Test		

Civil Department
2023-24

Revit Structure Syllabus   **Duration: (30 hours)**

Unit 1:   **Hours: 05**

1. **New Features**
   a. New Features

2. **New Features for Revit Structure**
   a. Introduction to Autodesk Revit Structure
   b. Basic Concepts and Principles
   c. The Revit Structure User Interface
   d. Building Information Modeling and Revit Structure, Getting Help

3. **Getting Started wit a Structural Project**
   a. Starting a New Structural Project
   b. Snaps Tool, Opening, Saving and Closing a Project
   c. Options Dialog Box

4. **Setting up a Structural Project**
   a. Creating Project Templates
   b. Using Levels
   c. Using Grids
   d. Working with Reference Planes

Unit: 2   **Hours: 05**

1. **Structural Columns and Walls**
   a. Structural Columns
   b. Structural Walls

2. **Foundations, Beams, Floors, and Open Web Joists**
   a. Understanding Foundations
   b. Adding Foundations
   c. Structural Floors
   d. Beams and Open Web Joists

3. **Editing Tools**
   a. Creating Selection Sets
   b. Moving and Copying
   c. Rotating, Mirroring and Arraying
   d. Additional Editing Tools, Creating Groups

4. **Documenting Models and Creating Families**
   a. Dimensioning
   b. Adding Text and Tags
   c. Creating Families

5. **Standard Views, Details, and Schedules**
   a. Standard Views
   b. Callout Views

INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT
Approved By AICTE New Delhi, DTE (MS) and Affiliated to Pune University

Civil Department
2023-24

  c. Drafting Details

  d. Graphical Column Schedules

Unit 3:   **Hours: 05**

1. **3D Views, Sheets, Analysis, Reinforcements, and Massing**
   a. 3D Views, Generating Shadows and Solar Studies

   b. Working with Sheets

   c. Understanding the Analytical Model

   d. Working with Analytical Models

   e. Adding Reinforcements, Linking Building Models

   f. Introducing Massing

   g. Editing Massing Geometry

   h. Creating Building Elements from Massing Geometry

2. **Linking Revit Models with Robot Structural Analysis**
   a. Linking Revit Models with Robot Structural Analysis

3. **Setting Up The Revit Structure Interface**
   a. Revit Structure 2015 Interface

   b. Setting up Revit Structure File Locations

4. **Family Concepts and Techniques**
   a. Family Types

   b. Adding to the Family

5. **Creating Custom Families**
   a. Creating a Composite Metal Deck Family

   b. Creating a Tapered Concrete Column Family

Unit 4:   **Hours: 05**

1. **Creating Structural Walls and Floors**
   a. Architectural Walls and Structural Walls

   b. Structural Floor Placement and Options

   c. Using Structural Beam Systems

2. **Creating Foundations**
   a. Isolated and Wall Foundations

   b. Slab and Floor Slab Foundations

3. **Reinforcement**
   a. Rebar and Fabric Settings

   b. Reinforcement Settings

Civil Department
2023-24

4. **Structural Column Families**
   a. Setting Up a Structural Column Family
   b. Inventor

Unit: 5   **Hours: 05**

1. **Creating Specific Family Types**
   a. Typical Concrete Corbelling Profile
   b. Typical Annotation Arrow Symbol

2. **Structural Analysis**
   a. Preparing Projects for Structural Analysis
   b. Creating Analytical Views

3. **Project Team Collaboration**
   a. Introduction to Worksets
   b. Working with Worksets

Unit 6:
Live Project   **Hours: 05**

Prof. Vishal Chaugule   Prof. Sachin Ingle   Prof. Savita Jangle
Student Training coordinator   Academic Coordinator   I/C HOD

INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT
Approved By AICTE New Delhi, DTE (MS) and Affiliated to Pune University

Civil Department
2023-24

ETABS Syllabus   **Duration: (30 hours)**

S N	Topic Covered	Contact Hours
1	**Introduction** History and Advantages of ETABS, What ETABS Can Do!, An Integrated Approach, Modeling Features, Analysis Features, Design Features, Detailing Features	6 Hrs
2	**The ETABS System** Overview of the Modeling Process, Physical Modeling Terminology, Story Definition, Towers, Units, Coordinate Systems and Grids, Structural Objects, Groups, Properties, Nonlinear Hinges, Load Patterns, Vertical Loads, Temperature Loads, Automated Lateral Loads, Functions P-Delta, Modal Cases, Load Cases, Load Combinations, Design Settings, Detailing ,Output and Display Options	9 Hrs
3	**ETABS Modeling Techniques** Begin a New Model, Select the Base Units and Design Codes, Set up Grid Lines, Draw Grids, Define and edit Story Levels, Draw Dimension Lines, Draw Joint Objects, Save the Model Editing Properties Replicate, Extrude Joints to Frames, ExtrudeFrame to Shells, Merge Joints Align, Joints/Frames/Edges Move, Joints/Frames/Shells Edit Frames, Edit Shells, Edit the Model Geometry, View the Model Defining Properties Material Properties, Section Properties, Load Patterns, Mass source, Load Cases, Load Combinations, Draw Structural Objects Draw Beam/Column Objects, Draw Floor/Wall Objects, Assigning Properties- Assign Joint, Frame, Shell, Joint, Assign Loads to Frame Shell, Checking the model for any errors and eliminating if any	9 Hrs
4	**ETABS Analysis Techniques** Linear Static Analysis, P-Delta Analysis, Nonlinear Static Analysis, Modal Analysis, Mass Source, Response Spectrum Analysis, Linear Time History Analysis, Nonlinear Time History Analysis	6 Hrs

Prof. Vishal Chaugule   Prof. Sachin Ingle   Prof. Savita Jangle
Student Training coordinator   Academic Coordinator   I/C HOD

Department of Computer Engineering

Ref. No: ICEM/COMP/2023-24/   Date: 9th Sept 2023

Notice

All Students of BE are hereby informed that 30hrs Certification Course under VAC (Value Added Course) on Advanced Python is scheduled from 11th to 15th Sept 2023. Therefore, all should have to attend compulsory otherwise strict action will be taken if your attendance is not 100%.

The details are as follows.

Date: 11th to 15th September 2023
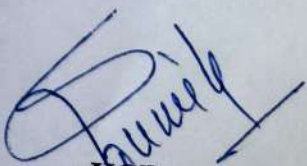
Time: 10:00 AM-5:00 PM

Mode: Offline

Venue: CKP hall, 4th Floor Computer Engineering

Note:

- Attendance is Compulsory otherwise Rs.500 should be fine per day.
- Uniform and ID Card is Mandatory.

VAP Coordinator
Prof.Reshma Kohad

HOD
Dr.Soumitra Das

Savitribai Phule Pune University
Third Year of Computer Engineering (2019 Course)
Value Addition Program

Teaching Scheme:	**Course**: Advanced Python(TE)

Prerequisite Courses: basics python library and function knowledge is essential
basic understanding of data analysis is required

Course Objectives:
- To Explore the latest Visualization and data Manipulation Concept.
- To Familiarize with the core concepts of frontend and backend programming.
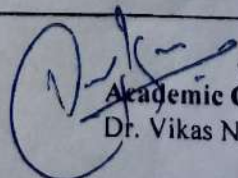- To Explore the latest libraries using advance program.

Course Outcomes:
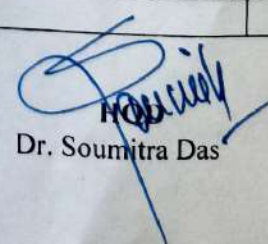After learning the course, students will be able to:
- Implement different Libraries for functions analyzing and manipulating.
- Explore the latest features of Numpy, Pandas & other Libraries.
- Implement data visualization and Module Building.

Detailed Syllabus

UNIT	Description	Duration (Hr)
I	**Introduction to Python:** Basics of Python, Installation Process, different Function, Overview of libraries, Standard Modules & Packages in python	06
II	**Implementation of Seaborn Library** Introduction of seaborn, Installation of seaborn library, overview of seaborn plotting function, seaborn object, properties. Styling and Themes in Seaborn Plotting chart using different function. Case study: Design plot graph of Height and Weight	08
III	**Implementation of Numpy and Panda Library :** Introduction of Numpy & Pandas Library, Installation Process, Handleling Data Structure using Numpy, Data Frames Using Pandas Data Manipulation using Numpy and Pandas **Case Study :**	08
IV	**Introduction of Scikit-learn and Matplotlib Library:** • Overview of scikit Library, Installation of scikit, features of scikit, Model Processing, data representation, Implementation of Linear Modelling. Overview of Matplotlib Library, Installation of Matplotlib, Library, Plotting Section in Matplotlib. Implementation of Example using Matplotlib Library Case study: i) Estimate API using linear Regression ii) How to Plot List of X, Y Coordinates in Matplotlib	08
		30 (Hr)

VAP Coordinator
Prof.Reshma Kohad

Academic Coordinator
Dr. Vikas Nandgaonkar

Dr. Soumitra Das

Date: 15/09/2023

Event Report

Academic Year: 2023-24

Semester-I

Name of the event: Five days Workshop on "Learning Advance Python with Hands-on Practice"

Date and Time	11/09/2023 to 15/09/2023, 10.00 AM - 05.00 PM
Event Venue	Indira College of Engineering and Management, Parandwadi, Pune
Organized by	Department of Computer Engineering
Targeted Audience	T.E. Students of ICEM, Parandwadi, Pune
Resource Person	Prof. Tushar Kute, MITU Skillologies, Pune, India

Event Contents:

1. Understanding the concepts of Advance Python.
2. Hands-on practice on Advance Python.

Details of the event:

The Department of Computer Engineering of ICEM, Parandwadi, has organized a five days Workshop on **"Learning Advance Python with Hands-on Practice"** from **11th September 2023 to 15th September 2023** by inviting an eminent guest to deliver sessions on concepts of Advance Python.

The session speaker **Prof. Tushar Kute** had a nice talk on the basic understanding and the concepts of Data structures, Datasets, and programming with real time examples.

Day	Topics covered
Day 1	Python Basics and Data Structures Python syntax and essential concepts. Data structures: list, tuple, set, and dictionary. Introduction to linear algebra and linear regression.
Day 2	Numpy and Pandas

	In-depth study of Numpy for numerical computing.	
	Comprehensive understanding of Pandas for data manipulation.	
Day 3	Advanced Pandas Techniques	
	Utilized Pandas for data appending, concatenation, merging, and joining.	
	Explored string functions, data export, cleaning, and scaling.	
Day 4	Data Visualization with Matplotlib	
	Data visualization with Matplotlib.	
	Various plots, including line plots.	
Day 5	Tkinter, Machine Learning, and Regression	
	Tkinter for building graphical user interfaces.	
	Introduction to machine learning concepts.	
	Classification, regression, and unsupervised learning.	
	Regression Analysis	
	Regression analysis as a statistical method for understanding relationships between variables.	
	Importance of dependent and independent variables.	
	Practical application of linear regression.	
	Data preprocessing techniques like feature scaling and cleaning.	
	Basics of classification algorithms.	
	Introduction to unsupervised learning and clustering.	

He had a very interactive session with the students and it was an effective two-way communication of the speaker and the participants.

Prof. Harshal Mahajan
(Event Coordinator)

Dr. Soumitra Das
(HoD, Dept. of Computer Engg.)

Advance Excel Certification.
Session Planner

MBA Department .
Time: 9.00 am to 6pm.
Trainer: Mr. Sandeep Pawar.

Date	Session title conducted.
9th Oct 2023	Introduction to Spreadsheets - Understanding Microsoft Excel, Excel Workbook Windows, Basic Spreadsheet Skills, Excel Help System, Opening and Closing Workbooks, Understanding Workbook File Formats, Creating New Workbooks, Selecting Cells, Auto Sum and Auto Fill Function, Cell Referencing and Request, Formatting Cells, Formatting Numbers, Placing Cell Alignment, Cell, Rows and Columns, Understanding Worksheets, Editing, Copying and Moving Cells, Page Layouts in Excel, Proofing Workbooks,
10th Oct 2023	Defining Names in Excel, Sorting Data, Using Excel Tables, Filtering Data in Excel, Understand Charts, Chart Design Options and Tools, Chart Format Tools, Combo Charts, Functions within Excel, Understanding Date Function, Information Functions, Logical Functions, Find and Replace, Headers and Footers, Adding Comments, Conditional Formatting
11th Oct 2023	Using Text to Columns, The Paste Special Function, Data Validation, Subtotals and Grouping, Consolidating Data, Scenario Analysis, Data Tables in Scenario Analysis, What-if Analysis, Mats and Trig Functions, Text Functions in Excel, Using Lookup Functions, Vlookups, HLookups, Match, Using Statistical Functions, Database Functions, Financial Functions, Formula Auditing and Error Tracing, Hyperlinks in Excel, Linking Data, Understanding Pivot Tables, Using Pivot Charts, Workbook Properties, Protecting and Sharing Worksheets, Data Encrypting and Finalising Workbooks, Understanding Macros, Custom Number Formats in Excel, Using Custom Lists, Working with Templates, Tracking Changes in Excel, Merging and Compare Excel Workbooks

Training Coordinator
Prof. Priyanka Pawar

Dr. Archana Salve
HOD, MBA.

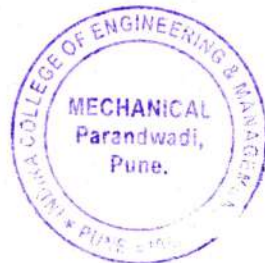# INDIRA COLLEGE OF ENGINEERING & MANAGEMENT

30 hrs Technical Training Course

	MODULE	WORKBENCH	TOPIC
			SOLID WORKS SYLLABUS
			BE Mechanical
10-09-2023	1	SKETCHER	Line, Rectangle & Slot and its Sub options
			Circle, Arc & Polygon and its Sub options
			Spline, Ellipse, Fillet & Chamfer and its Sub options
			Text, Point, Trim & Offset Entities and its Sub options
			Smart Dimensions and its Sub options
			Mirror Entities, Pattern and its Sub options
			Move, Copy, Rotate, Scale & Stretch Entities
			Relation, Display/Delete Relations
10-10-2023	2	PART MODELING	Concepts of Part Modeling
			Extruded Boss/Base & Extruded Cut
			Revolve Boss/Base & Revolve Cut
			Swept Base/Boss & Its Sub options
			Loft Boss/Base, Boundary Boss/Base
			Fillet & Chamfer and its sub options
			Linear/Circular/Curve Driven Pattern
			Fill/Mirror/Table/Sketch Driven Pattern
			Wrap, Mirror, Shell, Rib, Intersect, Draft & Hole
10-11-2023	3	ASSEMBLY	Bottom Up Assembly
			Move Components
			Exploded View
			Bill of material
			tamplet edit
10-12-2023	4	DRAFTING	Standard 3 View, Model-Projected-Auxiliary View
			Section-Detailed View, Broken Out Section, Break-Crop View
			Smart Dimension, Model Items,
			Note, Linear-Circular Note, Balloon, Auto Balloon,
			Surface Finish, Weld Symbol, Hole Callout
			Geometric Tolerance, Datum Feature
			Center Mark, Center Line, Area Hatch/Fill
			,Bill Of Material, Hole Table

Trainer

Dept. Coordinator

MECHANICAL
Parandwadi,
Pune.

H.O.D. Mechanical
Head of Department
(Mechanical Engg.)
Indira College of Engineering and Management
Parandwadi, Pune 410 506

Indira College of Engineering & Management
Department of Mechanical Engineering
30 Hrs Technical Training

Syllabus AUTOCAD with GD&T

from 11th March to 15th March 2024

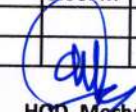| SR NO.	TOPIC	SUB TOPIC TO BE COVERED	DATE	TIME	BATCH	Hrs
1	Introduction to Engineering drawing and concept	concept of 2D and 3D drawing	11-03-2024	9:00AM to 5:00PM	SE Mech	6Hrs
2	Elements of Engineering Drawing	point				
		line				
		plane				
3	projection of	point				
		line				
		plane				
4	Plane and quadrant concept	arrangments of quadrants				
5	projection of	planer or lamina				
		solid objects				
6	Method of projections	First angle method of projection				
		third angle method of projection				
7	CO ORDINATE Systems	Co-ordinate system methods, Drawing Limits and Units set up in Autocad	12-03-2024	9:00AM	SE Mech	6Hrs
8	File save Management	Create .tmp file,save as .dwg file,dxf file and				
		creating Tamplate drawing from .dwg file				
9	LAYERS	basic draw tools and modify toolbar				
		Understanding the concept and				
		working with layers, Line type, line weight				
		creating drawing using Layer setting				
10	Draw toolbar	working with layers, Line type, line weight	13/03/2024	9:00AM to 5:00PM	SE Mech	6Hrs
11	Modify toolbar	Trim,extend,copy,offset,mirror,rotate,array,break commands with exercise				
12	Dimensioning	creating dimensions on drawing with exercise linear,align,radius, etc.	14/03/2024	9:00AM to 5:00PM	SE Mech	6Hrs
13	Variable radius curve and its practice with autocad	Practical application				
14	GD&T	Introductio to interchangibility				
		concept and deffn. In term GD&T				
		limits,fits,tolerance				
15	GD&T	concept of Geometric shapes and chakes	15/03/2024	9:00AM to 5:00PM	SE Mech	6Hrs
		parallality,perpendicularity,circularity,symetricity,position control frame				
		giving feature tolerance on drawing in autocd				
		exercise of one production drawing				
		post training cad test				

Trainer
Mr. Amit Vibhandik

Training Coordinator
Prof. S. A. Manwatkar

HOD, Mechanical
Dr. Prof. Chetankumar Sedani

INDIRA COLLEGE OF ENGINEERING & MANAGEMENT
Department of Mechnaical Engineering

TECHNICAL TRAINING 30 Hrs Course	
APEX Consultant	
CATIA V5 SYLLABUS	

SR No	Module	Session	Contents	Conducted On
1	**Introduction**	1	**CATIA as a CAD software :-** Concept of Parametric Modeling, Feature Based Modeling, User Interface,Mouse opertions, File types and Management, drawing profiles. Major user industries of Catia.	09-11-2023
2	**Sketcher**	2	**Sketcher:** Profile toolbar, operation(corner, chamfer,relimitations, transformations, project 3D element), constriants, types of constraints,	09-11-2023
3		3	**Sketcher:-** sketch tools, tools(Sketch sloving status, sketch analysis, output feature), visulization toolbar, user selection	09-11-2023
4		4	**Modeling of Machined component,** Material Addition and Removal (Pad, Pocket, Shaft, Groove), Sketch and Positioned Sketch, Types of Fillets, Types of Chamfer, Types of Hole.	09-11-2023
5		5	Modeling of Machined component - 2. **Pattern (Rectangular,Circular,User)** , **Thread/Tap, Datum Features** (Plane, Axes, Points),Simple Draft. Frequently used commands for Machined components	09-11-2023
6		6	**Advance Design features :-** Axis System, Types of draft, Shell, Stiffener,rib slot, **Multisection solid, Removed multisection solid,** Apply Material, Measure, Render.	09-12-2023
7	**Modelling of Machined Component (Part Design**	7	**Introduction To Multibody concept:-** Copy Paste, Paste special, Insert body, Boolean Operations (Add,remove,Intersect), **Transformation** (Translation, Mirror, Scaling, Affinity).	09-12-2023

8	8	**Multibody concept:-** Standered example ,	09-12-2023
9		Negative body concept (Boolean Operations)	
10	9	**Advance Features:-** Parameters, Formula, Relations, Design Table.	09-12-2023
11			
12	Drafting	10	**Introduction To Drafting & Detailing Theory:-** (types Generative – Interactive), Initial Drafting setting, Sheet Background, Views (ortho, ISO), Dimensions (Types-Generate Dimension & Create Dimension).	14/9/2023
13		11	**Views:-** (Aux, Section, Details, Clipping, Broken), View properties, DATUMS & Tolerance	15/09/2023
14				
15		12	**Annotations:-** GD & T, Symbols, Note, Leaders, Table, Symbols (Machining, Roughness, Welding, Custom), Dress-up Toolbar.	15/9/2023
16				
17				
18	Surfacing	13	**Surfacing Modeling based Plastic Component:-** Environment, Tool bars, Surface Creation (Extrude, Revolve, Sphere, Cylinder), Surface Modification, Surface Editing (Trim, Split, Shape Fillet,	13/9/23
19		14	**Surfacing:-** Offset(All 3 types), Fill, Blend, Join, healing, Project-Combine.	13/9/23
20		15	**Advanced Surfacing:-** Adaptive Sweep, Sweep(ALL), Multisection Surface.	13/9/23
21	**Wire-frame Modeling**	16	**Wire-frame Modeling:-** Point, Line, Planes, Curves, Circle-Conic, STANDARD EXAMPLES. Use of wire frame modeling,	13/9/23
22	**Sheet Metal**	17	Modeling of Sheet Metal Component: - Revision of sheet metal uses and design features, Tool Bars, Initial Parameters, Wall, Wall on edge, Flange, Cutout, Fold / Unfold. - Bending Operations:- Bend, Bend from Flat, Corner Relief, Corner Chamfer, Extrusion, Sheet metal Drafting.	14/9/2023

23	**Assembly & Mechanism**	18	**Introduction to Assembly:-** Types of assembly approach, Types of Constrains and DOF, placement of components in the Assembly, Manipulating Components, **BOTTOM UP Approach**	13/9/23
24		19	**TOP DOWN Approach:-** Part, Product, Component, Space Analysis, Reuse Pattern, Save management.	13/9/23
25		20	**Assembly Drafting:-** Scene(Exploded View), Bill of material, Ballon creation, Graph Tree Reordering.	13/9/23
26	TEST	21	**Test Exam and Doubt clear sesseion**	15/9/2023

Training Coordinator   **Trainer**   **H.O.D. Mechanical**

Ref. No: ICEM/FE/SAI/2023-24/**43**   Date: 8th Sept. 2023

Certificate course in Spectrum of AI Session Notice & Schedule

First Year Engineering Department of Indira college of engineering and Management, invites you for

30 hrs. Certificate Course on SAI (Spectrum of AI)
Venue: Online MS Team platform
Day and Date: Saturday, 9th Sept. 2023, Onwards…
Time: 10 AM to 12:00 Noon
Link:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmEzYTAwMmItMDNjNS00NjMxLWE3NmUtNjg0NDJiODI0OWM5%40thread.v2/0?context=%7b%22Tid%22%3a%2274ce676a-aa6e-41c1-bc31-f80e23d060ce%22%2c%22Oid%22%3a%22c03b6eff-e0f0-4581-b1aa-c502841253c4%22%7d

Sr. No.	Name of the faculty	Topic Name	Date	
1	Dr. Kiran Devade	AI Concept and Diversed areas	9-Sep-23	
2	Dr. Manjusha Tomar	AI in Engineering Mathematics	16-Sep-23	
3	Dr. Avinash Bansode	AI in Engineering Physics	23-Sep-23	
4	Prof. Pratima Uplonkar	AI in Basic Electrical Engineering	30-Sep-23	
5	Prof. Rupali Salunke	AI in Basic Electronics Engineering	7-Oct-23	
6	Prof. Bhagwat Dhiraj	AI in Electronics Engineering	14-Oct-23	
7	Prof. Shriknat Jambale	AI in Engineering Mathematics	21-Oct-23	
8	Prof. Ashwin Dharme	AI in Mechanical Engineering	28-Oct-23	
9	Prof. Supriya Kumbhar	AI in Manufacturing	4-Nov-23	
10	Prof.Mandakini Dahiwade	AI in Engineering Chemistry	11-Nov-23	
11	Prof. Shelly Sinha	AI in Computer Engineering	18-Nov-23	
12	Prof. Mayur Napte	AI in Engineering Mathematics	25-Nov-23	
13	Prof. Pallavi Javalkar	AI in Discrete Mathematics	2-Dec-23	
14	Prof.Satyam Kalyane	AI in Civil Engineering	9-Dec-23	
15.	Prof. Atul Gore	AI in Physical Education	16-Dec-23	
16.	Certification Exam			

Prof. Supriya Kumbhar   **Dr. Kiran Devade**
Training Coordinator   **FE   Coordinator**

INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT

Approved By AICTE New Delhi, DTE (MS) and Affiliated to Pune University

"Spectrum of AI" CERTIFICATION COURSE (30 hrs.)

Dept : Basic Engineering (First Year)

Schedule   **AY : 2023-2024**

Sr. No.	Date	Name of Faculty	Topic
1	9-Sep	Dr. Kiran Devade	AI Concept and Diversed areas
2	16-Sep	Dr. Manjusha Tomar	AI in Engineering Mathematics
3	23-Sep	Dr. Avinash Bansode	AI in Engineering Physics
4	30-Sep	Prof. Pratima Uplonkar	AI in Basic Electrical Engineering
5	7-Oct	Prof. Rupali Salunke	AI in Basic Electronics Engineering
6	14-Oct	Prof. Bhagwat Dhiraj	AI in Electronics Engineering
7	21-Oct	Prof. Shriknat Jambale	AI in Engineering Mathematics
8	28-Oct	Prof. Ashwin Dharme	AI in Mechanical Engineering
9	4-Nov	Prof. Supriya Kumbhar	AI in Manufacturing
10	11-Nov	Prof.Mandakini Dahiwade	AI in Engineering Chemistry
11	18-Nov	Prof. Shelly Sinha	AI in Computer Engineering
12	25-Nov	Prof. Mayur Napte	AI in Engineering Mathematics
13	2-Dec	Prof. Pallavi Javalkar	AI in Discrete Mathematics
14	9-Dec	Prof.Satyam Kalyane	AI in Civil Engineering
15	16-Dec	Prof. Atul Gore	AI in Physical Education

Training Coordinator   **H.O.D.**

Ms. Supriya Kumbhar   **Dr. Kiran Devade**

Note: Merging Conditions only based on : 1) SPPU Exam / IGI events / Issues / Rediness

Ref. No: ICEM/SAI /2023-24 /   Date:10/09/2023

<div align="center">Report on</div>

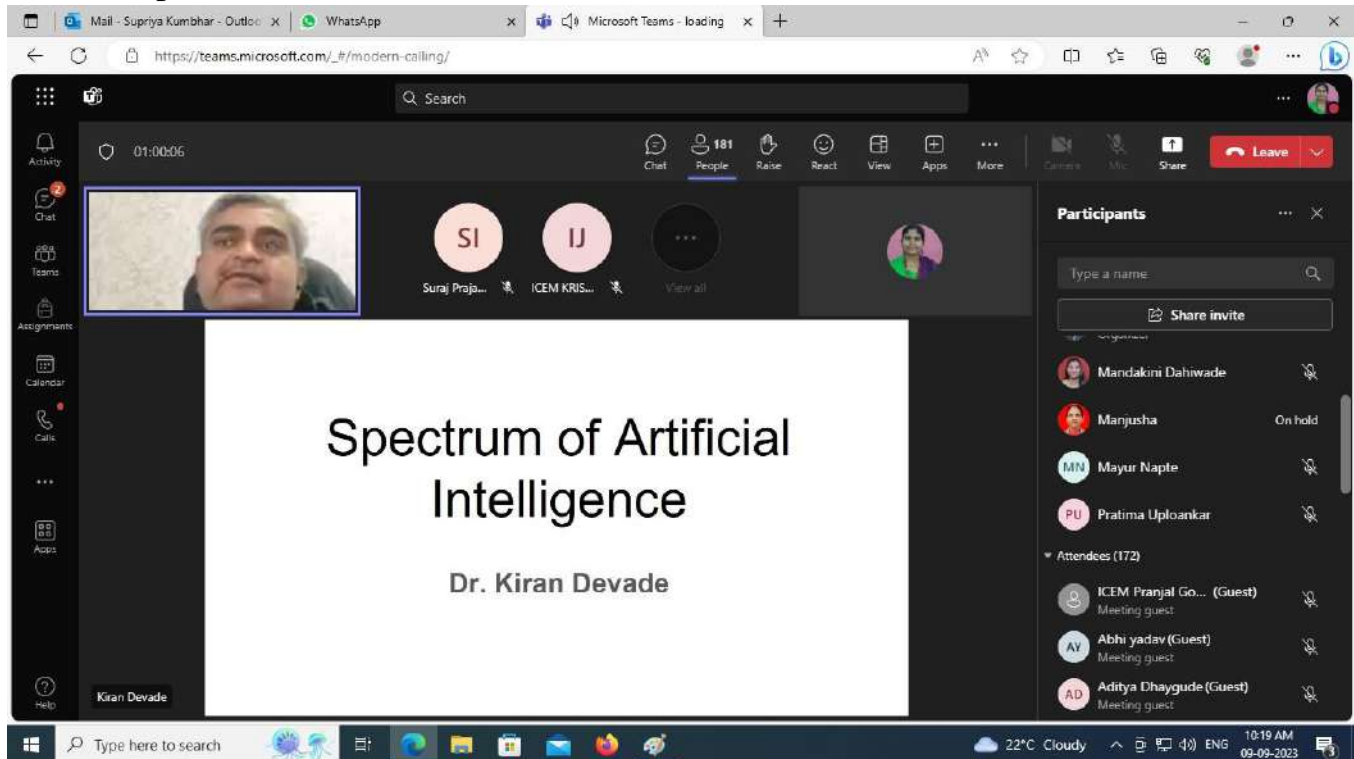Date: 9th September, 2023.

Mode & Venue: Online through MS Teams
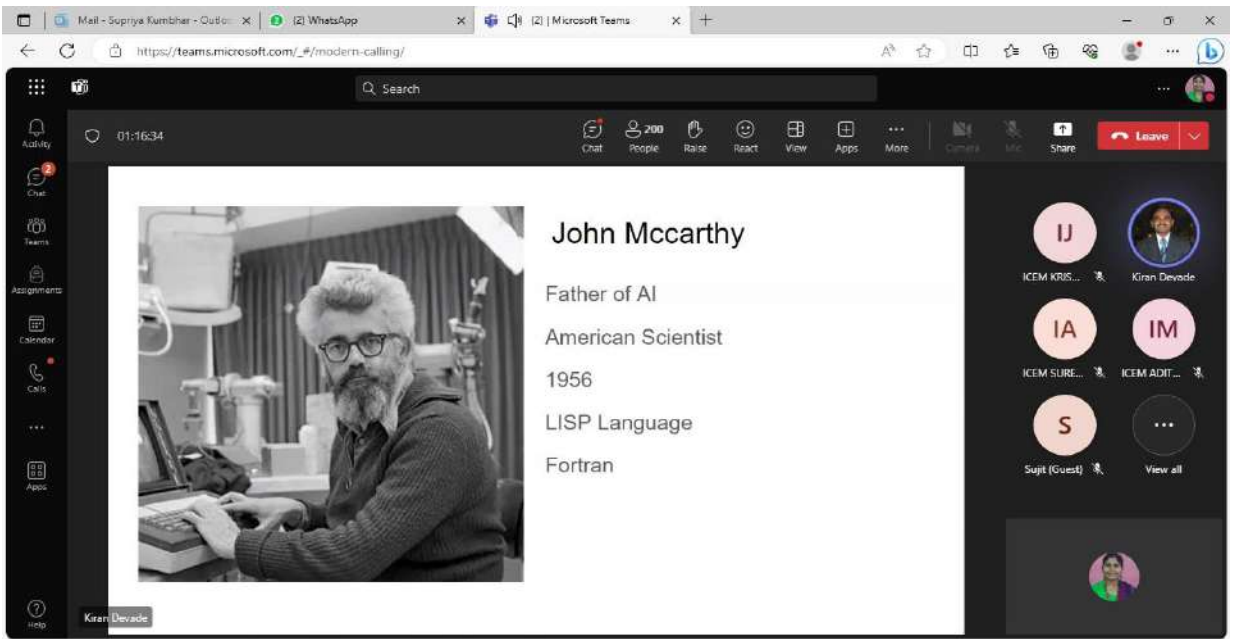
Link to join:

https://teams.microsoft.com/l/meetupjoin/19%3ameeting_NmEzYTAwMmItMDNjNS00NjMxLWE3NmUtNjg
0NDJiODI0OWM5%40thread.v2/0?context=%7b%22Tid%22%3a%2274ce676a-aa6e-41c1-bc31-
f80e23d060ce%22%2c%22Oid%22%3a%22c03b6eff-e0f0-4581-b1aa-c502841253c4%22%7d
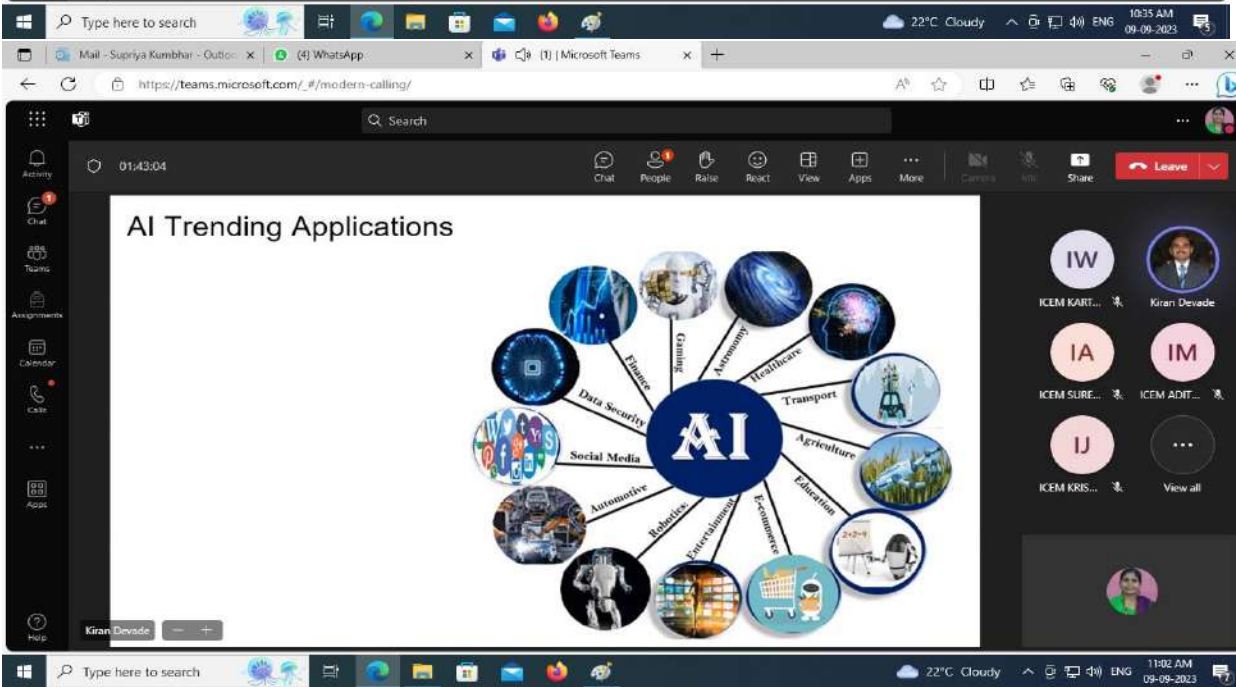
Details of the Session:

As a part of the Scope of Artificial Intelligence in different subjects, the FE department has started the conduction of sessions on its scope with live examples and case studies of AI. In the eve of the session start Dr. Kiran Sir was conducted a beautiful session with a history of Artificial Intelligence and the founder of AI explained very well. Sir also talked on the story of "Myth of Pygmalion and Galatea", NLP in AI, etc.

Few Glimpses:

FE Coordinator

Assist. Prof. Supriya Kumbhar

HOD, FE

Dr. Kiran Devade

Department of Computer Engineering

Ref. No: ICEM/COMP/2023-24/   Date: 9th Sept 2023

<u>Notice</u>

All Students of BE are hereby informed that 30hrs Certification Course under VAC (Value Added Course) on Advanced Python is scheduled from 11th to 15th Sept 2023. Therefore, all should have to attend compulsory otherwise strict action will be taken if your attendance is not 100%.

The details are as follows.

Date: 11th to 15th September 2023
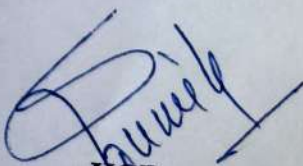
Time: 10:00 AM-5:00 PM

Mode: Offline

Venue: CKP hall,4th Floor Computer Engineering

Note:

- Attendance is Compulsory otherwise Rs.500 should be fine per day.
- Uniform and ID Card is Mandatory.

VAP Coordinator
Prof.Reshma Kohad

HOD
Dr.Soumitra Das

Savitribai Phule Pune University
Third Year of Computer Engineering (2019 Course)
Value Addition Program

Teaching Scheme:	**Course**: Advanced Python(TE)

Prerequisite Courses: basics python library and function knowledge is essential
basic understanding of data analysis is required

Course Objectives:
- To Explore the latest Visualization and data Manipulation Concept.
- To Familiarize with the core concepts of frontend and backend programming.
- To Explore the latest libraries using advance program.

Course Outcomes:

After learning the course, students will be able to:
- Implement different Libraries for functions analyzing and manipulating.
- Explore the latest features of Numpy, Pandas & other Libraries.
- Implement data visualization and Module Building.

Detailed Syllabus

UNIT	Description	Duration (Hr)
I	**Introduction to Python:** Basics of Python, Installation Process , different Function, Overview of libraries, Standard Modules & Packages in python	06
II	**Implementation of Seaborn Library** Introduction of seaborn, Installation of seaborn library, overview of seaborn plotting function, seaborn object, properties. Styling and Themes in Seaborn Plotting chart using different function. **Case study**: Design plot graph of Height and Weight	08
III	**Implementation of Numpy and Panda Library :** Introduction of Numpy & Pandas Library, Installation Process, Handleling Data Structure using Numpy, Data Frames Using Pandas Data Manipulation using Numpy and Pandas **Case Study :**	08
IV	**Introduction of Scikit-learn and Matplotlib Library:** • Overview of scikit Library, Installation of scikit, features of scikit, Model Processing, data representation, Implementation of Linear Modelling. Overview of Matplotlib Library, Installation of Matplotlib, Library, Plotting Section in Matplotlib. Implementation of Example using Matplotlib Library **Case study: i)** Estimate API using linear Regression ii) How to Plot List of X, Y Coordinates in Matplotlib	08
		30 (Hr)

VAP Coordinator
Prof.Reshma Kohad

Academic Coordinator
Dr. Vikas Nandgaonkar

Dr. Soumitra Das

Indira College of Engineering and Management
Department of Computer Engineering

Date: 15/09/2023

Event Report

Academic Year: 2023-24

Semester-I

Name of the event: Five days Workshop on "Learning Advance Python with Hands-on Practice"

Date and Time	11/09/2023 to 15/09/2023, 10.00 AM - 05.00 PM
Event Venue	Indira College of Engineering and Management, Parandwadi, Pune
Organized by	Department of Computer Engineering
Targeted Audience	T.E. Students of ICEM, Parandwadi, Pune
Resource Person	Prof. Tushar Kute, MITU Skillologies, Pune, India

Event Contents:

1. Understanding the concepts of Advance Python.
2. Hands-on practice on Advance Python.

Details of the event:

The Department of Computer Engineering of ICEM, Parandwadi, has organized a five days Workshop on **"Learning Advance Python with Hands-on Practice"** from **11th September 2023 to 15th September 2023** by inviting an eminent guest to deliver sessions on concepts of Advance Python.

The session speaker **Prof. Tushar Kute** had a nice talk on the basic understanding and the concepts of Data structures, Datasets, and programming with real time examples.

Day	Topics covered
Day 1	Python Basics and Data Structures Python syntax and essential concepts. Data structures: list, tuple, set, and dictionary. Introduction to linear algebra and linear regression.
Day 2	Numpy and Pandas

	In-depth study of Numpy for numerical computing.
	Comprehensive understanding of Pandas for data manipulation.
Day 3	Advanced Pandas Techniques
	Utilized Pandas for data appending, concatenation, merging, and joining.
	Explored string functions, data export, cleaning, and scaling.
Day 4	Data Visualization with Matplotlib
	Data visualization with Matplotlib.
	Various plots, including line plots.
Day 5	Tkinter, Machine Learning, and Regression
	Tkinter for building graphical user interfaces.
	Introduction to machine learning concepts.
	Classification, regression, and unsupervised learning.
	Regression Analysis
	Regression analysis as a statistical method for understanding relationships between variables.
	Importance of dependent and independent variables.
	Practical application of linear regression.
	Data preprocessing techniques like feature scaling and cleaning.
	Basics of classification algorithms.
	Introduction to unsupervised learning and clustering.

He had a very interactive session with the students and it was an effective two-way communication of the speaker and the participants.

Prof. Harshal Mahajan
(Event Coordinator)

Dr. Soumitra Das
(HoD, Dept. of Computer Engg.)

Introduction to Training Topics

Welcome to our upcoming training program, where we will embark on an exciting journey into the world of Civil Engineering and the powerful tools it encompasses. Over the course of four intensive days, we will dive deep into key topics designed to equip you with practical knowledge and skills that are essential in today's dynamic Civil Engineering landscape.

By the end of these Five days(30 Hr), Students not only have gained a profound understanding of these crucial topics but also practical skills that can propel your career in Civil Engineering forward. We encourage active participation, open dialogue, and hands-on learning throughout the program.

So, let's embark on this knowledge-packed journey together. Get ready to explore, learn, and grow as we dive into the world of Civil Engineering, BIM, Revit, and the exciting possibilities of Artificial Intelligence. Let's make the most of this opportunity to enhance our skills and stay at the forefront of innovation in the industry.

Technical Week		
Course Content		
Days	**Topics**	**Hrs**
Day 1	Mindset of civil student and Indutry requrment	6
	Overview of Building Information Modeling (BIM) and its importance	
	Overview of Revit and its benefits Test 1	
	Artificial intelligence & Civil Industry	
	Basics of Revit	
	Understanding the Interface	
	Navigating the Revit interface, including the Ribbon, Properties panel, and Project browser	
	Customizing the interface and general options, Navigation, Zooming, panning, and rotating the view"	

Day 2	Project 1: Simple House		6
	Setting up a project		
	Creating levels and walls		
	Selecting objects and using filters		
	Adding floors. doors, windows,		
Day 3	adding components		6
	Adding families downloading families		
	stairs, and railing		
Day 4	Section		6
	Camera		
	walkthrough		
Day 5	Rendering		6
	Sheets		
	LinkedIn profile with respect to Civil Engineer		
	Role Artificial intelligence in Civil Engineering and how to Prepre for new era of A.I. as a Civil Engineer		
	Test		

Ref: ICEM/MCA/2024/116   Date: 07/03/2024

Department of MCA

NOTICE

This is to inform all FYMCA (SEM-I) students that, 30Hrs. **"Certification Course on Advance Java Spring Hibernate & Collection Framework, Selenium Hands on training"** is scheduled from 11/03/2024 to 15/03/2024.

Attendance is compulsory and will be strictly monitored.

Venue: MCA Classroom 4th floor ICEM- MCA **From10.30am to 5pm**

Note: 9.40am to 10.30am First Lecture will be as per timetable

Prof. Milind P. Deshpande
Course Coordinator

Dr. Darshana Desai
HOD-MCA

ICEM/MCA/2023-24

Department of MCA

Date: : 16/03/2024

Session Planner "Advance Java Spring Hibernate & Collection Framework, Selenium Hands on training" 2023-2024

Class: FYMCA – Sem II   **Time: 10.30 am to 5.00pm**

Sr. No.	Date	Subject/Topic
1.	11/03/2024	Introduction to java, Exception Handling Collection framework, Database programming with JDBC
2.	12/03/2024	Spring Core Basics, Spring Introduction, Spring Architecture, Spring Environment Setup, Spring Example Spring IoC Containers, Spring - Bean Definition Spring - Bean Scopes, Spring Bean Life Cycle Spring Bean Post Processors, Spring Dependency Injection
3.	13/03/2024	Hibernate Introduction, Hibernate Architecture Hibernate and Java Persistence API (JPA) Hibernate Project Dependencies, Domain Model Classes Hibernate Mapping XML Configuration, Hibernate Configuration Files, Hibernate Session Factory Hibernate Annotation
4.	14/03/2024	Selenium WebDriver, Selenium WebDriver WebDriver Vs RC WebDriver,Installation First Test Case WebDriver ,Commands Running Test on Chrome Running Test on Firefox Running
5.	15/03/2024	Drop-Downs WebDriver-Drag and Drop WebDriver- a Web Page WebDriver - Browser Commands WebDriver – Navigation Commands WebDriver – Web Element Commands Handling Radio Buttons Handling Checkbox Selenium

Prof. Milind P. Deshpande
Course Coordinator

Dr. Darshana Desai
HOD-MCA

ICEM/MCA/2023-24   **Department of MCA**   **Date:** 16/03/2024

Report on 30 Hrs.
"Advance Java Certification Course"

Date: 11/03/2024 to 15/03/2024
Participants: FYMCA students
Venue: FYMCA Classroom
Trainer: Mr. Sachin Lohar – Freelance Corporate Trainer

Brief Description:

The Advance Java Certification Program for FY MCA students was conducted in the MCA Department from 11/03/2024 to 15/03/2024. The program aimed to provide students with in-depth knowledge and practical experience in various Advance Java Programming topics.

Throughout the five sessions, the students were exposed to essential of fill Advance Java Programming. Each session included both theoretical explanations and hands-on exercises to reinforce learning.

Which also covers the following topics in details with hands on training

SN	Module	Sub Topics
1	Advance JAVA	Introduction to java
		Exception Handling
		Collection framework
		Database programming with JDBC
2	Spring	Spring Core Basics
		Spring Introduction
		Spring Architecture
		Spring Environment Setup
		Spring Example
		Spring IoC Containers
		Spring - Bean Definition
		Spring - Bean Scopes
		Spring Bean Life Cycle
		Spring Bean Post Processors

		Spring Dependency Injection
3	Hibernate	Hibernate Introduction
		Hibernate Architecture
		Hibernate and Java Persistence API (JPA)
		Hibernate Project Dependencies
		Domain Model Classes
		Hibernate Mapping XML Configuration
		Hibernate Configuration Files
		Hibernate Session Factory
		Hibernate Annotation
4	Selenium with JAVA	Selenium WebDriver
		Selenium WebDriver
		WebDriver Vs RC WebDriver
		Installation First Test Case WebDriver
		Commands Running Test on Chrome Running Test on Firefox Running
		Drop-Downs WebDriver-
		Drag and Drop WebDriver-
		a Web Page WebDriver - Browser Commands WebDriver –
		Navigation Commands WebDriver –
		Web Element Commands Handling
		Radio Buttons Handling Checkbox Selenium

Finally, the students learned about the Advance Java using above topics and a small project is assigned to them.

The students actively participated in the sessions, and their progress was assessed through

Practical assignments and quizzes. At the end of the program, each student received a certification of completion, acknowledging their dedication and successful completion of the Advance Java Certification Program.

Pune, Maharashtra, India
PM45+R6Q Indira College Of Engineering And Management, Pune, Maharashtra 410506, India
Lat 18.707199°
Long 73.658211°
11/03/24 10:59 AM GMT +05:30

Prof. Milind P. Deshpande
Course Coordinator

Dr.Darshana Desai
HOD-MCA

FeedBack 30Hrs.Advance Java Certification Course

ID	Email	Name	Please rate trainer in his/her knowledge on the subject/topic c	Please rate trainer in making the subject/topic c	Is your Trainer convincingly delivering the subject/topic c	How much would you rate Trainer's delivering the subject/topic to make student get interested in the subject 5?	Choose the Trainer's delivery modes used during session (You can select more than two options)	What other skills would you like to learn in future sessions	What topics you learned today	Any other feedback	Class participation and interaction were encouraged
1	atharv.goliwar@indiraice	atharv goliwar	Excellent	Modatre	Yes	4	Oral Narration;		Selenium	He is good	Yes
2	avinash.dharme@indirai	avinash dharme	Good	Enough Adeq	Yes	4	Projector Demon	Reacts js or angu	Selenium WebDr	N/a	Yes
3	tushar.netale@indiraicer	tushar netale	Excellent	Excellent	Yes	4	Oral Narration;	N	N	N	Yes
4	vaishnavi.shinde@indirai	vaishnavi shinde	Good	Excellent	Yes	4	Slides Presentati	spring boot	Selenium WebDr	helpful Session	Yes
5	mrunal.mankar@indiraic	mrunal mankar	Excellent	Excellent	Yes	4	Slides Presentati	Micro services	Selenium	It'll be great if ses	Yes
6	aman.kumar@indiraicer	aman kumar	Excellent	Excellent	Yes	5	Oral Narration;	More about Java	Selenium WebDr	No thanks	Yes
7	gaurav.pate@indiraicem	gaurav pate	Excellent	Excellent	Yes	4	Desk to desk Exp	Mern stack	Selenium WebDr	No	Yes
8	dnyaneshwar.kankale@i	dnyaneshwar kan	Excellent	Excellent	Yes	5	Desk to desk Exp	Fullstack web de	Selenium WebDr	Wants same sessi	Yes
9	hitesh.marathe@indiraic	hitesh marathe	Good	Enough Adeq	Yes	4	Projector Demon	Figma, nodejs , o	Selenium WebDr	NA	Yes
10	shivam.giri@indiraicem.	shivam giri	Good	Enough Adeq	Yes	4	Slides Presentati	MERN Stack	Selenium WebDr	More interactive	Yes
11	ganesh.lawand@indiraic	ganesh lawand	Excellent	Excellent	Yes	5	Projector Demon		Selenium WebDr		Yes
12	gupta.ishita@indiraicem	ishita gupta	Good	Enough Adeq	Yes	4	Slides Presentati	Machine Learnin	Selenium WebDr	More such sessio	Yes
13	snehal.nayagave@indira	snehal nayagave	Excellent	Excellent	Yes	5	Slides Presentati	Spring	Selenium WebDr	No	Yes
14	priyanka.patare@indirai	priyanka patare	Good	Enough Adeq	Yes	3	Oral Narration;SI		Selenium WebDr		May Be
15	saurabh.kothawade@inc	saurabh kothawa	Good	Enough Adeq	Yes	4	Slides Presentati	Generative AI, CI	Selenium WebDr	NA	
16	om.vakhariya@indiraice	om vakhariya	Good	Enough Adeq	Yes	4	Slides Presentati	Selenium more e	Selenium WebDr	No	Yes
17	more.pratik@indiraicem	pratik more	Excellent	Excellent	Yes	5	Oral Narration;SI	None.	Selenium WebDr	None.	Yes
18	apurwa.raibole@indiraic	apurwa raibole	Excellent	Excellent	Yes	5	Desk to desk Exp	Full stack web de	Selenium WebDr	N/A	Yes
19	shivam.sagar@indiraicer	shivam sagar	Excellent	Excellent	Yes	5	Projector Demon	Artificial intellige	Selenium Archite	It was very good s	Yes
20	omkar.andure@indiraice	omkar andure	Excellent	Enough Adeq	Yes	4	Projector Demon	Cloud computing	Selenium WebDr		Yes

SHREE CHANAKYA EDUCATION SOCIETY'S

INDIRA COLLEGE OF ENGINEERING AND MANAGEM

Approved By AICTE New Delhi, DTE (MS) and Affiliated to Pune University (Id-No. PU/PN/Engg/282/20(

Master of Computer Applications (FYMCA-Batch 2023-25) A.Y. :

Subject: 30 Hrs. Certification Course on "Advance Java Spring Hibernate & Collection Framework, Selenium Hands on training " Commencing from 11th March. 2024

Report

Date

Time:

Sr.	Ro ll	Name	Advance Java(20)	Spring (20)	Hibernet(20)	Selenium (20)	involvement (20)	Total	Remark
1	81101	ABHINAV SANJAY DHOLE							
2	81102	ABHISHEK SUNIL BALASKAR	16	14	14	13	15	72	the very good student technically also sound
3	81103	ADITYA SANDIP AHER						0	
4	81104	AMAN KUMAR	11	10	10	10	11	52	need to practice more and interactive in session
5	81105	ANDURE OMKAR SOMNATH							
6	81106	ASHISH MOHAN CHANDERE							
7	81107	AVINASH SHANKAR DHARME							
8	81108	AZAD ZEBA SHAHEZAD							
9	81109	BARVE ADESH SHANKAR							
10	81110	DANDEL SNEHAL SANJAY							
11	81111	DAREKAR DHANASHREE RAMES	11	10	10	10	11	52	need to practice more and interactive in session
12	81112	DESALE RUSHIKESH RAMESH	11	10	10	10	11	52	need to practice more and interactive in session
13	81113	DHAGE VAISHNAVI SHANKAR							
14	81114	DHUMAL PRATHAMESH MAHENDRA							
15	81115	GAIKWAD SATYAJEET VIJAY	16	15	15	13	15	74	attentive in session and interactive in session one of
16	81116	GANORE DURGESH VIJAY							
17	81117	GAURAV SURESH PATE	11	10	10	10	11	52	need to practice more and interactive in session
18	81118	GAYATRI MANOHAR JANGWAD	11	10	10	10	11	52	need to practice more and interactive in session
19	81119	GHULE DEVENDRA DHANANJAY							
20	81120	GOLIWAR ATHARV ULHAS							

Sr	ID	Name						Total	Remarks
21	81121	GOPAL JAYSINGRAO GHUGE	11	10	10	10	11	52	need to practice more and interactive in session
22	81122	GUPTA RANJEET RAKESH	11	10	10	10	11	52	need to practice more and interactive in session
23	81123	HULAWALE KANCHAN RAM							
24	81124	IDHATE SACHIN SURESH	11	10	10	10	11	52	need to practice more and interactive in session
25	81125	INGALE ANEESH RAHUL							
26	81126	ISHITA GUPTA	16	15	15	13	15	74	attentive in session and interactive in session one of
27	81127	JADHAV MAYUR KAILAS							
28	81128	JAIRMOD VIJAYKUMAR VISHWAMBAR							
29	81129	KAMDI HEMANT SURESH							
30	81130	KANKALE DNYANESHWAR MAN	14	13	14	13	15	69	the very good student technically also sound
31	81131	KOTHAWADE SAURABH MADHU	14	13	14	13	15	69	the very good student technically also sound
32	81132	LAWAND GANESH SADASHIV							
33	81133	MANKAR MRUNAL PRADEEP							
34	81134	MARATHE HITESH DNYANESHWAR							
35	81135	MESHRAM HIMANSHU PRASHA	16	15	15	13	15	74	attentive in session and interactive in session one of the very good student technically also sound
36	81136	MORE PRATIK YOGENDRA	14	13	14	13	15	69	attentive in session and interactive in session one of the very good student technically also sound
37	81137	NAYAGAVE SNEHAL PRABHAKAR	14	13	14	13	15	69	attentive in session and interactive in session one of the very good student technically also sound
38	81138	NERKAR CHETAN VIJAYKUMAR	11	10	10	10	11	52	need to practice more and interactive in session
39	81139	NETALE TUSHAR HARIDAS	14	13	14	13	15	69	attentive in session and interactive in session one of the very good student technically also sound
40	81140	OM NILESH VAKHARIYA	10	10	10	10	8	48	need to practice more and not focusing in session.
41	81141	OVHAL SUMEDH SIDHARTH							
42	81142	PATARE PRIYANKA VISHNU							
43	81143	PATIL ANIKET NARSU	11	10	10	10	11	52	need to practice more and interactive in session
44	81144	PATIL KEDAR BHAUSO							

Sr.	ID	Name						Total	Remarks
45	81145	PATIL SAURAV VINAYAK	14	13	14	13	15	69	attentive in session and interactive in session one of the very good student technically also sound
46	81146	PHADATARE SHREYASH RAMAKANT							
47	81147	POL OMKAR DATTATRAY	16	15	15	13	15	74	attentive in session and interactive in session one of the very good student technically also sound
48	81148	PRANALI SHRIKRUSHNA DHONE							
49	81149	PRATHAMESH MAHENDRA KAMBLE							
50	81150	PUSHPAK GANESH SAKHARKAR							
51	81151	RAIBOLE APURWA DHANANJAY							
52	81152	RUGVED SUNIL GHIRNIKAR	14	13	14	13	15	69	attentive in session and interactive in session one of the very good student technically also sound
53	81153	SAGAR HITESH MAHENDRA	11	10	10	10	11	52	need to practice more and interactive in session
54	81154	SAGAR SHIVAM SHASHIKANT							
55	81155	SAKSHI PRASHANT PAWAR	14	13	14	13	15	69	attentive in session and interactive in session one of the very good student technically also sound
56	81156	SALVI ANIKET RAMDAS							
57	81157	SAURABH SAMBHAJI DHONUKS	11	10	10	10	11	52	need to practice more and interactive in session
58	81158	SHAHANE ABHISHEK AJIT							
59	81159	SHELAR ADITYA DNYANDEV							
60	81160	SHINDE VAISHNAVI SUNIL	11	10	10	10	11	52	need to practice more and interactive in session
61	81161	SHIVAM GIRI	16	15	15	15	15	76	attentive in session and interactive in session one of the very good student technically also sound
62	81162	SHRIVARDHAN DILIP KUMBHAR	11	10	10	10	11	52	need to practice more and interactive in session
63	81163	SHWETA KASHISH	11	10	10	10	11	52	need to practice more and interactive in session
64	81164	SONAWANE ANIRUDDHA BABA	14	13	14	13	15	69	attentive in session and interactive in session one of the very good student technically also sound
65	81165	TEMBARE SHIVAM SURESH							
66	81166	VARPE AKSHAY KISHOR							

			11	10	10	10	11	52	need to practice more and interactive in session
67	81167	VIVEK SUNILBHAI CHANDAK							
68	81168	VYSHNAVANAND M							

Mr.Milind P Deshpande
Dept. Training Coordinator

Dr. Darshana Desai
HOD MCA

Syllabus

MODULE 1: BASICS of DIGITAL MARKETING
- Introduction To Online Digital Marketing
- Importance Of Digital Marketing
- How did Internet Marketing work?
- Traditional Vs. Digital Marketing
- Types of Digital Marketing
- Increasing Visibility
- Visitors' Engagement
- Bringing Targeted Traffic
- Lead Generation

MODULE 2: ANALYSIS AND KEYWORD RESEARCH
- Market Research
- Keyword Research And Analysis
- Types Of Keywords
- Tools Used For Keyword Research
- Localized Keyword Research
- Competitor Website Keyword Analysis
- Choosing Right Keywords To The Project

MODULE 3: SEARCH ENGINE OPTIMIZATION (SEO)
- Introduction To Search Engine Optimization
- How Did Search Engine work?
- SEO Fundamentals & Concepts
- Understanding the SERP
- Google Processing
- Indexing
- Crawling

MODULE 4: ON-PAGE OPTIMIZATION
- Domain Selection
- Hosting Selection
- Meta Data Optimization
- URL Optimization
- Internal Linking
- 301 Redirection
- 404 Error Pages

Syllabus

MODULE 1: BASICS of DIGITAL MARKETING

- Introduction To Online Digital Marketing
- Importance Of Digital Marketing
- How did Internet Marketing work?
- Traditional Vs. Digital Marketing
- Types of Digital Marketing
- Increasing Visibility
- Visitors' Engagement
- Bringing Targeted Traffic
- Lead Generation

MODULE 2: ANALYSIS AND KEYWORD RESEARCH

- Market Research
- Keyword Research And Analysis
- Types Of Keywords
- Tools Used For Keyword Research
- Localized Keyword Research
- Competitor Website Keyword Analysis
- Choosing Right Keywords To The Project

MODULE 3: SEARCH ENGINE OPTIMIZATION (SEO)

- Introduction To Search Engine Optimization
- How Did Search Engine work?
- SEO Fundamentals & Concepts
- Understanding the SERP
- Google Processing
- Indexing
- Crawling

MODULE 4: ON-PAGE OPTIMIZATION

- Domain Selection
- Hosting Selection
- Meta Data Optimization
- URL Optimization
- Internal Linking
- 301 Redirection
- 404 Error Pages

- Canonical Implementation
- H1, H2, H3 Tags Optimization
- Image Optimization

MODULE 5: OFF-PAGE OPTIMIZATION
- Link Building Tips & Techniques
- Difference Between White Hat And Black Hat SEO
- Link Acquisition Techniques
- Directory Submission
- Social Bookmarking Submission
- Search Engine Submission
- Web 2.0 Submission
- Article Submission
- Image Submission
- Video Submission
- Forum Submission
- PPT Submission
- PDF Submission
- Classified Submission
- Business Listing
- Blog Commenting
- Citations
- Profile link creations
- Infographics Submission

MODULE 6: SEO UPDATES AND ANALYSIS
- Google Panda,
- Penguin,
- Humming Bird Algorithm
- Google Penalties
- SEO Tools For Website Analysis And Optimization
- Competitor Website Analysis And Backlinks Building
- Backlinks Tracking, Monitoring, And Reporting

MODULE 7: LOCAL BUSINESS & GOOGLE MAPPING
- Creating Local Listing In Search Engine
- Google Places Setup (Including Images, Videos, Map Etc)
- Search Engine Visibility Reports
- Verification Of Listing

- Google Reviews

MODULE 8: GOOGLE ADWORDS OR PAY PER CLICK MARKETING (SEM)

- Google Adwords
- Introduction To Online Advertising And Adwords
- Adwords Account And Campaign Basics
- Adwords Targeting And Placement
- Adwords Bidding And Budgeting
- Adwords Tools
- Opportunities
- Optimizing Performance
- Ads Type
- Bidding Strategies
- Search Network
- Display Network
- Shopping Ads
- Video Ads
- Universal App Ads
- Tracking Script
- Remarketing
- Performance Monitoring
- Reports

MODULE 9: SOCIAL MEDIA OPTIMIZATION (SMO)

- Social Media Optimization
- Introduction To Social Media Networks
- Types Of Social Media Websites
- Social Media Optimization Concepts
- Facebook, Google+, LinkedIn,
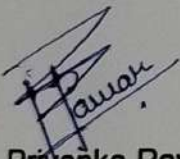- YouTube, Pinterest,
- Hashtags
- Image Optimization

MODULE 10: GOOGLE WEB ANALYTICS

- Getting Started With Google Analytics
- Navigating Google Analytics
- Audience
- Acquisition
- Traffic Sources

- Behavior
- Content
- Visitors
- Live Data
- Demographics

MODULE 11: CREATING A NEW SIMPLE WEBSITE
- Creating A Simple Website For Your Business

Dr. Priyanka Pawar

Faculty Coordinator

Dr. Archana Salve

HOD, MBA

Format No.: ICEM/IQAC/23-24/Acad-10   Date: 9/03/2024

Department of Artificial Intelligence and Data Science

Data Science Using Python Training Day wise Plan

Class: SE   **Duration: 11ᵗʰ March to 15ᵗʰ March 2024**

Day 1: Introduction to Data Science

On the first day of the program, participants will delve into the foundational concepts of data science, gaining insight into its applications and significance. The session will set the stage for an immersive exploration of this dynamic field.

Day 2: Data Collection and Preprocessing

1. Importance of Data Collection- Collecting relevant and accurate data is crucial for insightful analysis and informed decision-making.

2. Different Sources of Data- Data can be sourced from databases, surveys, social media, IoT devices, and more, each requiring different handling.

3. Data Preprocessing Techniques- Techniques like cleaning, transformation, and normalization are essential for preparing raw data for analysis.

Day 3: Exploratory Data Analysis

1. Data Exploration- Understanding the structure and content of the dataset through summarization and visualization.

2. Statistical Analysis- Utilizing statistical methods to identify patterns, trends, and correlations in the data.

3. Feature Selection- Identifying and selecting relevant features that contribute to predictive modeling and analysis.

Day 4: Machine Learning Algorithms

1. Introduction to machine learning- An overview of machine learning and its applications in data science.

2. Supervised and unsupervised learning- Understanding the differences between supervised and unsupervised learning methods.

3. Regression and classification algorithms- Exploring regression and classification algorithms for predictive modeling and pattern recognition.

Day 5: Advanced Topics in Data Science

1. Deep Learning and Neural Networks Explore advanced machine learning techniques like deep neural networks and their applications in data science.

2. Natural Language Processing Learn about processing and analyzing human language data using computational methods and algorithms.

3. Time Series Analysis Understand the analysis and prediction of time series data, essential for forecasting and trend identification

Prof. Deepa Padwal
Academic Coordinator

Dr. Manjusha Tatiya
HOD

Date: 16th March 2024

Department of Artificial Intelligence and Data Science

Bridge Course Report: Data Science Using Python

Date: 11th March to 15th March 2024

Venue: Classroom No. 19

Time: 10:30 am to 11:30 pm

Introduction: The Bridge Course on "Data Science Using Python" was conducted at the AI and DS Department from 11th March to 15th March 2024. The primary objective of the course was to provide foundational knowledge and hands-on experience in Python programming and its application in data science.

Course Structure: The course was designed to cover essential concepts in Python programming and data science, catering to participants with varying levels of expertise. It consisted of lectures, practical sessions, and assignments, ensuring a balanced mix of theoretical understanding and practical implementation.

Key Topics Covered:

1. Introduction to Python Programming: Basics of Python syntax, data types, control flow statements, functions, and modules.
2. Data Manipulation with Pandas: Data structures, data cleaning, manipulation, and analysis using the Pandas library.
3. Data Visualization: Plotting various types of graphs and visualizations to explore and communicate insights from data.
4. Introduction to Machine Learning: Overview of machine learning concepts, algorithms, and their implementation using libraries.
5. Hands-on Projects: Participants worked on real-world datasets to apply the concepts learned during the course, reinforcing their understanding through practical application.

INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT

Parandwadi, Pune – 410506, Ph. 02114 661500, www.indiraicem.ac.in

Course Delivery:

- Lectures: Interactive session led by experienced instructor by Mr. Shaik Abdul Hafeez, provided a comprehensive understanding of the theoretical concepts.
- Practical Sessions: Hands-on exercises allowed participants to apply Python programming and data science techniques in a guided environment.
- Assignments: Regular assignments encouraged participants to practice and reinforce their learning outside of the classroom.
- Project Work: Participants collaborated on projects, applying their knowledge to solve practical data science problems.

-

Participant Feedback: Feedback from participants was overwhelmingly positive, with many expressing appreciations for the well-structured curriculum and the hands-on approach. Participants particularly enjoyed the opportunity to work on real-world projects, which enhanced their practical skills and confidence in applying data science techniques.

Conclusion: The Bridge Course on "Data Science Using Python" provided participants with a solid foundation in Python programming and its application in data science. By covering essential concepts and facilitating hands-on learning, the course equipped participants with the skills and knowledge necessary to embark on their journey in data science. The success of the course underscores the department's commitment to fostering excellence in AI and data science education.

Prepared by

Academic Coordinator

Prof. Deepa Padwal

Submitted To

HoD

Dr. Manjusha Tatiya

Few Glimpses of the Session:

Pune, Maharashtra, India
PM45+R6Q Indira College Of Engineering And Management, Pune, Maharashtra
410506, India
Lat 18.707251°
Long 73.65819°
13/03/24 11:46 AM GMT +05:30