CENTRE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP
PANJAB UNIVERSITY
CHANDIGARH

CSDE Skill Enhancement Summer Course
Data Analysis and Visualisation Using Python

ABOUT

Technology is fast becoming a vital element in the present dynamic world. Everything from education to business is steered by technology. Several previously manually conducted tasks are being automated, leading to efficient and seamless operations and services. However, technology is known to generate vast amounts of data. Over the next five years up to 2025, global data creation is projected to grow to more than 180 zettabytes.[1] A number of novel fields have emerged, all reliant on data and its ever-growing importance. Among them, one of the most upcoming is data analysis and visualisation. Data collection, interpretation, and analysis have always been central to decision-making. Our comprehensive Course, steered by expert academicians and practitioners, empowers you with the knowledge and skills to unravel the analytical side of decision-making. Join us and unlock the immense potential of data analytics today!

LEARNING OUTCOMES

After the successful completion of the Course, you will be able to:
- *Gather*, *organise* and *analyse* data to find meaning in numbers
- *Cultivate* a data mindset for better problem-solving
- *Harness* numbers for decision-making and communication
- *Diagnose* and *prevent* common pitfalls in data analysis and visualisation

ELIGIBILITY AND SEATS

Open to students from all streams and disciplines currently enrolled in any undergraduate, postgraduate, and PhD programme at Panjab University or its affiliated colleges. **However, it is mandatory for all participants to bring their own laptops to ensure an optimal learning experience**. The Course has a maximum capacity of **30** participants.

TARGET AUDIENCE

This Course is designed for students who aspire to:
- critically look, interpret and visualise data
- boost problem-solving skills
- make informed and improved decisions by numbers
- apply data analytics skills to everyday life

SCHEDULE

This intensive Course is of 30 hours. The sessions will be held from Monday to Saturday, as per the following schedule:

Lecture and Practice	6 days × 3 sessions/day
Evaluation	Learning by Doing (LbD) activities/Quiz

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[1] https://www.statista.com/statistics/871513/worldwide-data-created/

VENUE AND KEY DATES

Venue: Seminar A, Arts Block III, University Business School, Panjab University, Sector-14, Chandigarh- 160014 **(Directions)**
Duration: July 3 – 8, 2023
Last date for registration: June 30, 2023, by 5.00 pm
Announcement of shortlisted candidates: July 1, 2023

APPLICATION PROCESS AND FEES

Interested candidates should complete an online application form:
https://forms.gle/dnrgrsb9DkVa8vNQ8

The fee should be paid in online mode only. Once 30 seats are filled, acceptance of the registration will be stopped, and fees paid for those registered will not be refunded. In addition, no boarding and lodging facility will be provided.

Scan for Registration

Fee: ₹2,500
Payment details:
Name of the Bank: State Bank of India, Sector-14, Panjab University, Chandigarh
Name of Account Holder: CENTRE FOR SKILL DEVELOPM ENTREPRENEURSH
Bank Account Number: 36439086406
IFSC Code: SBIN0000742

ASSESSMENT AND CERTIFICATION

Assessment will be out of 50 marks based on performance in various modules. Upon successful completion of this Course, participants will receive a certificate.

MODULES

Module	Contents	Duration (hours)	Marks
1	Introduction	5.5	10
2	Importing Datasets	1.5	3
3	Cleaning and Preparing the Data	1.5	3
4	Summarising the Data Frame	3.5	7
5	Model Development	3.5	7
6	Model Evaluation	7.5	13
7	Data Visualisation Techniques	3.5	7

In addition, 30 minutes will be devoted to 'daily reflections' from Tuesday through Saturday.

ORGANISERS

Prof. Suveera Gill
Honorary Director
Centre for Skill Development & Entrepreneurship

Dr. Vishal Sharma
Coordinator
Centre for Skill Development & Entrepreneurship

CONTACT

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Feedback
from CSDE First Skill Enhancement Summer Course
on
Mastering Social Media Marketing Skills (June 5-12, 2023)

Participants with the Honorary Director and Coordinator, Centre for Skill Development & Entrepreneurship

At the end of the Course, we presented every participant with a questionnaire. This questionnaire aimed to obtain feedback regarding the Course and information on how we can constantly improve the delivery. We share some of the generous comments that we received from our satisfied participants.

- *"The Course was highly informative and provided a practical learning experience."*

- *"The instructor was knowledgeable and provided valuable insights into leveraging various social media platforms for business growth."*

- *"The highlight of the Course was the Expert Sessions, where practitioners provided insight into real-life experiences and advice on how to leverage social media platforms."*

- *"The Course structure was well-organised and professionally conducted, balancing theory and hands-on exercises. Study materials, related videos and references were extremely helpful in clarifying the concepts further."*

- *"The interactive nature of the Course allowed for active participation and the opportunity to apply the concepts learned in real-time."*

- *"I highly recommend this Course to anyone looking to strengthen their social media marketing skills. It was a worthwhile investment."*