

REGISTRATION

**PSGCenter for
AcademicResearch and Excellence**
Organizes
 Faculty Development Programmeon
**Data to Decision: Science Behind
Numbers**

30 – 31 January 2026

Name:.....

Gender: Male / Female

Designation :.....

Department :.....

Organization :.....

Address:.....

Mobile:.....

Email:.....

Online Payment reference No. :

Bank Name:

DateofTransfer:.....

Amount :

Filled-in registration form must be scanned and sent to

skl.eee@psgtech.ac.in

DECLARATIONBYTHECANDIDATE:

Thegiveninformationistrue tothebestofmyknowledge. I agree to abide by the rules and regulationsgoverning the program. If selected, I shall attend thecoursefortheentireduration.

Place:

Date:

Signatureof the Participant

Researchscholars	Rs.750/-+18% tax
Faculty for Academic Institutions other than PSG	Rs.1000/-+18% tax
Industries	Rs.1250/-+18% tax

ForPSGFacultymembers, theregistrationisfree

ACCOUNT DETAILS FOR ONLINE PAYMENT

AccountName :**PSG Center for Non formal and Continuing**

EducationBankName :**Central Bank of IndiaBranch** :Peelamedu

AccountNumber:**1481267367**

IFSCCode :**CBIN0280913**

MICRCode :**641016006**

DATES TO REMEMBER

Last date for registration:**19- 01- 2026**
 Intimationof Selection : **23-01- 2026**

FOR ANY QUERIES, CONTACT:

Secretary

PSG Center for Academic Research and Excellence
 Ph:7639644312

Email: secretary@psgcare.org

PSG CENTER FOR ACADEMIC RESEARCH AND EXCELLENCE

Faculty Development Programme on
Data to Decision: Science Behind Numbers

30 – 31 January 2026



OrganizedBy
PSG Center for Academic Research and Excellence Coimbatore
 -641 004.
 Phone: 0422 - 4344575
www.psgcare.org

ABOUT PSG CARE

The **PSG Center for Academic Research and Excellence** was founded in October, 2015 by the PSG & Sons Charities Trust with a mission to promote teaching excellence in all the colleges under the Trust. Toward this end, CARE will encourage the use of learner-centric pedagogical practices that facilitate effective learning and will foster dialogue and reflection on effective teaching through workshops, seminars, one-to-one consultation and other activities. The center also focuses on creating and sustaining effective faculty-student relationships.

ABOUT THE FDP

The workshop “Data to Decision: Science Behind Numbers” is designed to bridge statistical theory, analytical techniques, and real-world decision-making. It aims to equip participants with the conceptual understanding and methodological tools required to interpret data rigorously, extract meaningful patterns, and translate quantitative evidence into actionable insights.

This workshop will empower participants to transform numerical data into meaningful insights and strategic decisions. Through an integrated blend of statistics, analytical modelling, and data mining concepts, the programme enables learners to understand data behaviour, identify hidden patterns, and develop evidence-based interpretations.

COURSE CONTENT

The **Statistical Foundations** module will focus on descriptive statistics for data characterization and inferential statistics for hypothesis-driven reasoning using confidence intervals and significance testing.

The **Data Mining and Pattern Discovery** module introduces the conceptual scope of data mining and its relevance to modern analytics ecosystems. Techniques such as clustering and classification will be discussed with respect to pattern discovery, knowledge extraction, and predictive modeling.

The **Dimensionality Reduction** module will explain the challenges associated with high-dimensional datasets and the resulting computational and analytical constraints. Techniques including Singular Value Decomposition (SVD) and Principal Component Analysis (PCA) will be explored as mechanisms for feature compression and structure preservation. The workshop concludes with regression analysis, highlighting its role in modelling relationships, interpreting trends, and supporting quantitative decision frameworks.

EXPECTED OUTCOMES

Participants will be able to:

- Interpret data scientifically
- Apply statistical reasoning
- Discover patterns using analytics
- Use models for informed decision-making

RESOURCE PERSON

simply as Varahan—has been a distinguished academician in the School of Computer Science at University of Oklahoma, an established public research university located in Norman. He served for over four decades as George Lynn Cross Research Professor and faculty member, contributing significantly to computational science, data analytics, parallel processing, dynamic data assimilation, and learning algorithms.

Dr. Lakshmivarahan's academic career includes a Ph.D. from the Indian Institute of Science, extensive research publications, authorship/co-authorship of books, and supervision of numerous doctoral and master's theses.

Dr. Lakshmivarahan is a Fellow of both the IEEE and the ACM and has received multiple awards for teaching and research excellence during his tenure at the University of Oklahoma.

WHO CAN ATTEND

- Research Scholars
- Faculty Members
- Professionals working with data