



Centre of Advanced Faculty Training

On

Recent Trends in Data Analytics and Knowledge Management

September 6-26, 2018
Duration : 21 days

Sponsoring authority:
Education Division
Indian Council of Agricultural Research
New Delhi

Course Coordinator : Dr. Shashi Dahiya
Course Co-Coordinators : Dr. Anshu Bharadwaj
Dr. Soumen Pal



संगणक अनुप्रयोग प्रभाग
भा.क.अनु.प.- भारतीय कृषि सांख्यिकी अनुसंधान संस्थान
लाइब्रेरी एवेन्यू, पुसा, नई दिल्ली 110012
Division of Computer Applications
ICAR-Indian Agricultural Statistics
Research Institute, Library Avenue,
Pusa, New Delhi -110 012



URL: <http://www.iasri.icar.gov.in>

Background

Data analytics (DA) is the process of examining the data sets in order to draw meaningful and informed conclusions. It uses the tools, techniques and specialized systems to explore, create and manage large and complex datasets. Data analytics technologies and techniques are widely used by organizations to make more-informed decisions and by scientists and researchers to verify scientific models, theories and hypotheses.

Knowledge Management (KM) is the process of capturing, distributing, and effectively using knowledge. It consists of the initiatives, processes, strategies, and systems that sustain and enhance the storage, assessment, sharing, refinement, and creation of knowledge. It involves the management of knowledge that is useful for some purpose and which creates value for the organization.

Objectives

- To educate the participants about different data analytics and knowledge management techniques.
- To provide practical training of the most common tools used for data analytics and knowledge management.
- To provide competency to the participants to apply the most common data analytics tools on agricultural datasets.
- To provide competency to the participants to prepare and manage their own content using knowledge management tools.

Course Content

The course has been designed in a series of classroom lectures followed by hands on sessions. Major course topics includes:

- Introduction - Data Analytics
- Introduction to Statistics (Samples and Population, Probability, Random Variables, Dataset Distributions)
- Descriptive Statistics
- Inferential and Applied Statistics
- Machine Learning for Data Analytics: Introduction and Concepts
- Supervised Learning with Regression and Classification technique
- Unsupervised Learning and Challenges for Big Data Analytics
- Web server concepts
- Hyper Text Markup Language (HTML), CSS, Scripting languages
- Database concepts
- Introduction to CMS
- Web content generation and web applications using CMS tools
- Administration and web publishing
- Software/ Languages: Excel, R, WEKA, SQL, HTML, DRUPAL

Venue

Division of Computer Applications
ICAR-Indian Agricultural Statistics Research
Institute, Library Avenue, Pusa,
New Delhi - 110 012

Duration

6th September – 26th September, 2018

About ICAR-IASRI, New Delhi

ICAR-IASRI (<http://www.iasri.res.in>) is mainly responsible for promoting and conducting research and imparting education / training in the field of Agricultural Statistics, Computer Applications and Bioinformatics. With the passage of time the Institute has equipped itself with the following modern facilities to meet the requirements in the changed scenario:

- **Computing Facilities:** Institute has several Computer laboratories well equipped with modern teaching aids and systems with latest hardware and software packages.
- **Library:** The e-library has rich collection of latest books and journals relating to Computer Science, Statistics, Bioinformatics and other related disciplines including on-line journals and bibliographic databases.
- **Guest House:** Panse guest house has modest facilities to cater to the needs of the participants.

About New Delhi

New Delhi, India's capital and a major gateway to the country, is a bustling metropolis, which successfully combines in its fold the ancient and the modern. It is well connected by air, rail and bus to the rest of the country. The temperature in Delhi, in the month of September generally lies between 25°C (min.) to 35°C (max.).

Eligibility

- Master's degree in any discipline of Agriculture/ Allied Sciences.

- Working in a position not below the rank of Scientist/ Assistant Professor.
- Working knowledge in Windows and Internet.
- Exposure to basic tools of data analysis and knowledge management.

Nominations

The application for participating must be filled online using CBP portal at <http://www.iasri.icar.gov.in/> or ICAR site <http://www.icar.org.in/>

(Capacity Building Program link under Quick links). User has to create account on the CBP site and then enter into the system using the login id to apply online for the training program. After filling the application, take a printout of the application and get it approved by the competent authority of the organization. Upload the scanned copy of application through the above portal or send by mail or post.

Travel and other arrangements

The participants will be paid for the journey, to and fro, shortest route restricted to AC-II-tier train fare (excluding Rajdhani and Shatabdi Express) or Bus or any other means of transport in vogue as the case may be. Actual TA will be paid on production of original tickets by the participants. Participants are advised not to bring family members with them. Participants should make their own transport arrangements to reach the IASRI Panse guest house.

Number of participants: 25

**Last date for receipt of nominations:
3rd August, 2018**

**Information to selected candidates:
6th August, 2018**

For any query you may contact to:

Dr. L. M. Bhar

Director (A), ICAR-IASRI & CAFT Director,
Library Avenue, Pusa,
New Delhi -110 012
Email: Director.IASRI@icar.gov.in
Phone: 011-25841479
Fax: 011-25841564

Dr. Sudeep Marwaha

Head (A) & Professor,
Division of Computer Applications,
ICAR-IASRI, Library Avenue, Pusa,
New Delhi -110 012
Email: Sudeep.Marwaha@icar.gov.in
Phone: 011-25841074

Dr. Shashi Dahiya

Course Coordinator, Senior Scientist
ICAR-IASRI, Library Avenue, Pusa,
New Delhi -110 012
Email: Shashi.Dahiya@icar.gov.in
Phone: 011-25847121-24, Extn. 4358

Dr. Anshu Bharadwaj

Course Co-Coordinator, Principal Scientist
ICAR-IASRI, Library Avenue, Pusa,
New Delhi -110 012
Email: Anshu.Bharadwaj@icar.gov.in

Dr. Soumen Pal

Course Co-Coordinator, Scientist
ICAR-IASRI, Library Avenue, Pusa,
New Delhi -110 012
Email: Soumen.Pal@icar.gov.in