

Air Quality Data Analytics

A 2 days hands on training program

Date : August 8-9, 2019

Time : 9.30 pm - 5.00 pm

Cost : Rs. 15,000 / Participant
Rs. 4,000 / Participant for NGOs and Academia

Venue : Eknect Knowledge Foundation
504/505, 5th Floor, Balarama Building, BKC, Bandra (East), Mumbai – 400051

Principal Faculty: Dr. Prasad Modak

Last Date for
Registration
1st August

Who Should Attend?

Professionals engaged in air quality modeling, Regulators at Pollution Control Boards, Industry, Researchers and Academia

What's different?

- Limited seats to ensure personalized training
- Step by step exposure to Air Quality Data Analytics including data cleaning & checking, data visualization, trend detection and violation analysis
- Meteorological data processing such as wind rose, pollution rose persistent wind rose and polar plots
- Emphasis on case studies

Special offers

- 30 days free licence to use online Air Quality Data Analytics Dashboard
- Report on your one year continuous air quality data at a station - FREE
- One month support post training

* **Rs. 15,000** includes GST, Two servings of Tea/Coffee & Lunch for both the days.

A 3 days Course on Air Quality Modelling is organized on August 22-24, 2019 for **Rs. 20,000/-**

Organizations registering for both training programs will pay **Rs. 30,000/-** and **SAVE Rs. 5,000/-**

All participants will be required to come with their laptops with MS Windows OS.

Registration and Payment - link: <https://imjo.in/f9H9UW>

Training Agenda

Sessions	August 8, 2019	August 9, 2019
Morning Session 1	<ul style="list-style-type: none"> • What is data analytics? • Why is it important to analyze air quality data? • What role does air quality data analysis play in decision making? 	<ul style="list-style-type: none"> • Time Series Visualization - Diurnal, Weekly, Monthly, Seasonally, Annually • Plotting Ratios: e.g. $PM_{2.5}/PM_{10}$ • Correlations • Detection of trend using Mann Kendall test
Morning Session 2	<ul style="list-style-type: none"> • Overview of the Online Dashboard • Sample Data and formatting required 	<ul style="list-style-type: none"> • Violations over standards • Simultaneous and Contiguous Violations • Location Importance Index (LII) <ul style="list-style-type: none"> ➢ Definition, Calculation and Use • Demonstration session on Trends & Violations
Lunch		
Afternoon Session 1	<ul style="list-style-type: none"> • Missing Data: <ul style="list-style-type: none"> ➢ Why Could Data be Missing? ➢ Can this missing data be “filled”? • Suspect Data: <ul style="list-style-type: none"> ➢ Case of Repeat values ➢ Tracking inconsistent data from calibration records ➢ What are Outliers and How to identify them? ➢ Importance of Meta-data • Demonstration session on Data clean up & formatting 	<ul style="list-style-type: none"> • Processing Meteorological Data <ul style="list-style-type: none"> ➢ Wind Rose ➢ Pollution Rose ➢ Persistent Wind Rose ➢ Polar Plots • Demonstration session on Meteorological Data
Afternoon Session 2	<ul style="list-style-type: none"> • Descriptive Statistics: <ul style="list-style-type: none"> ➢ Mean ➢ Standard Deviation, Coefficient of Variation ➢ Maximum, Minimum, Range ➢ Percentiles • Demonstration session on Descriptive Statistics 	<ul style="list-style-type: none"> • Putting it all together- Interpretation from the different visual representations of Air Quality Data including Stack Influence

Ekonnnect Knowledge Foundation (Ekonnnect)

Set up in 2012, Ekonnnect is a non-profit section 8 company, offering awareness, education and counselling on Environmental Management & Sustainability. Engaging with stakeholders ranging from university students, young professionals and educational institutions, to government bodies and corporates, Ekonnnect has successfully delivered a range of training services including face-to-face and blended training programmes with e-learning. Ekonnnect undertakes Training of Trainers (ToT) offers curriculum design and conducts career counselling in the domain of environmental management and sustainability.

Recently, Ekonnnect conducted training programs on air quality modelling and air quality data analytics for Pollution Control Boards of Maharashtra and Rajasthan, seminars on managing industrial air emissions and awareness sessions on air quality for citizens. A 5 day training program was conducted for officials of Department of Environment, Govt of Bangladesh focusing on air quality modelling and air quality data analytics. Please visit www.ekonnnect.net to learn about Ekonnnect's activities.

For more information on the Air Quality Data Analytics Training program please visit <http://ekonnnect.net/air-quality-data-analytics>
 For more information on the BREEZE AERMOD Training program please visit <http://ekonnnect.net/breeze-aermod-training>

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