

PROGRAMME SCHEDULE

Introduction to Data science and Business Analytics
Elementary programming in R
Data pre-processing
Data visualization
Data cleaning
Statistical tests using R
Advanced data analytics
Data clustering
Regression and classification methods
LASSO regression, Logistic regression
Support vector machine
Data analytics in different domains: Case studies
Optimization techniques
Econometrics techniques
Market analytics
Network analytics
Text analytics
Recent trend in the data science and analytics

IMPORTANT DATES

Last date for advance registration : Jan 31st 2017

ELIGIBILITY

This is an interdisciplinary programme. Participants from Industry and Academia Students, Researchers in any of Arts/ Science/Engineering/ Management stream and having interest in the area are eligible to apply. Participants should be familiar with MS Excel to attend the Data Analysis using R sessions and also have personal laptop while attending the workshop.

REGISTRATION FEE

Participants from other institutes: Rs. 5750/-
Participants from NITC: Rs. 2750/-
Registration fee includes workshop kit, Refreshments, and working lunch. The registration fee should be deposited directly to the SBI-NITC Branch in the **Account No. 33039655507**, SBI, NITC BRANCH. IFSC: SBIN002207 In favor of 'COORDINATOR. MRM'

HOW TO APPLY?

Registration form can be downloaded from the institute website. The filled in registration form should reach the Coordinator on or before 31-01-2017 along with the DIRECT / ONLINE payment receipt of the registration fee.

SELECTION

Selection will be on first-come-first-served basis and will be intimated through e-mail. Number of participants is limited to 50. All further communications will be through e-mail.

ACCOMMODATION

Boarding and lodging will be provided in the guest rooms of the institute hostel with a nominal payment basis for those who opt for the same in advance.

KEY RESOURCE PERSON

Dr. Animesh Acharjee is presently working as an Investigator Scientist (Data Analysis) at University of Cambridge. Prior to joining University of Cambridge he was working as a Scientist in BASF, Belgium and Statistician in Synergie Lyon Cancer Centre, France. He did his PhD from Wageningen University, The Netherlands on applied machine learning and data analysis. He has been granted several International fellowships during his career progression such as International Society for Computational Biology (ISCB), British Council, Newton-Katip Çelebi Fund, and Dutch Government. Further, he is reviewer with multiple international journals. He published many articles in leading journals and presented his work more than 15 countries including Massachusetts Institute of Technology (MIT), USA; Judge Business School, Cambridge, UK. His research interests are computational biology, big data analytics, data driven innovation and strategies. He is part of Cambridge Big Data Initiative and also involved in consultancy with multiple industry partners in UK.

Other resource persons from NIT Calicut and IIMK will also deliver sessions in the workshop.

CONTACT ADDRESS

Coordinator, National Workshop on
**"NATIONAL WORKSHOP ON
DATA SCIENCE AND BUSINESS ANALYTICS"**
School of Management Studies
National Institute of Technology Calicut
Calicut, N.I.T. Campus P.O., Pin. 673601. Kerala. Phone:
0495- 2286076, 2286072
Fax:0495 2287250
Email: nwbar@nitc.ac.in

NATIONAL WORKSHOP ON "APPLIED DATA SCIENCE AND BUSINESS ANALYTICS USING R"

March 12-17, 2017

Data Science Is Multidisciplinary



Coordinator
Dr. T. Radha Ramanan
Dr. K. Muhammad Shafi



Organized by
SCHOOL OF MANAGEMENT STUDIES
National Institute of Technology Calicut
NIT Campus P.O. CALICUT, 673601. Kerala, India

INTRODUCTION

Data Science is an interdisciplinary field about processes and systems to extract knowledge or insights from large volumes of data in various forms, either structured or unstructured, which is a continuation of some of the data analysis fields such as data mining and predictive analytics, as well as Knowledge Discovery in Databases (KDD). The objective of this program is to emphasize broad range of techniques for data science using R .

OBJECTIVE

The entire workshop is based on R software. However the workshop assumes no working knowledge of R. The three day program will begin by discussing elementary concepts of R and then moving towards more advanced concepts. Elementary concepts like data cleaning, pruning, visualizing will be taught in extreme detail since the quality of data cleansing determines the subsequent outcomes.

EXPECTED OUTCOMES

- The workshop covers all industry-relevant Business Analytics techniques with right mix of theory and hands on sessions.
- There is good blend of theoretical, hands-on and Do-It-Yourself sessions to make the learning experience less taxing.
- The duration of the workshop is one week which is ideal for understanding basic & advanced BA techniques and practice all the techniques learned during the course of workshop itself.

ABOUT CALICUT

Calicut is a major centre of higher education, learning and research in Kerala. It is the hometown of institutions of national importance including NITC, IIMK, NIELIT, KSOM and CWRDM. Direct trains to most of the major cities in India connect Calicut. It is also well connected by road to Mangalore, Bangalore, Ooty, Coimbatore, Cochin and Trivandrum. Calicut also has an International Airport which is located about 45 km away from Institute.

ABOUT THE INSTITUTE (www.nitc.ac.in)

National Institute of Technology Calicut is one of the premier technical institutions in India. NITC is set in a picturesque landscape at the foothills of Western Ghats, located on the Calicut- Makkam road, about 22km from Calicut City. The

institute offers nine undergraduate and twenty postgraduate programmes apart from the Ph.D programme under different departments. The institute has good infrastructure in computing, information technology, laboratories and library including a hi-tech Nalanda digital library. Round the clock internet access is available for all staff and students in the NITC Campus.

ABOUT SOMS www.soms.nitc.ac.in

The School of Management Studies (SOMS) established in the year 2008 offers two year full time Post Graduate Programme in Management (MBA) and Research Programme (Ph.D.). The objective of NITC-SOMS is to develop students belonging to different disciplines that include Economics or Mathematics as core subject, in analytical and executive skills required for professional managers. It also aims at developing professionals for the analytical and managerial skills required for a professional manager and to enrich them with adequate background of humanities and universal values that would create an awareness of the social responsibility, necessary to enable him/her to play an effective role as manager for the benefit of the society.

The MBA programme has been designed as per international standards at par with IIMs, IITs and Reputed Institutions. In this endeavour, the school invokes excellent executive competence among graduates. The deliverable of the programme is to contribute to the business fraternity, competent executive and professionals combined with human values, meeting the needs and standards of industry globally. The Ph.D. program is drawn in a manner to imbibe managerial research and to establish the research culture while retaining the identity of the individual.

Mission: To equip, train and mould students into globally competent personnel with sound footing on basic managerial principles, skills, research capabilities, along with exemplary professional conduct to analyze, evaluate and execute effective decisions for the progress of enterprises and society, adapting to dynamic economic environment towards robust governance with the highest ethical values.

Vision: Internationally acclaimed professional competency of the highest calibre.

National Workshop on
**“APPLIED DATA SCIENCE
AND BUSINESS ANALYTICS USING R”**
12-17th March 2017

REGISTRATION FORM

1. Name:
2. a) Date of birth: b) Sex: M / F
3. Designation:.....
4. Institution:
.....
5. Address for communication
.....
.....
.....
.....
.....
.....
..... Pin Code:.....
Phone (STD code) Mobile:
6. Email:
7. Qualifications:
8. Specialization:
9. Year of award of highest qualification:
10. Years of Experience:
11. Area of work/Interest:
12. Whether accommodation needed: Yes/No
13. Payment: Rs, 5750/2750
14. Payment Mode: NEFT/Direct Credit/Deposit
15. Payment Receipt No. and Date :

The information furnished above is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator sufficiently in advance, in case I am unable to attend the course

Place:

Date:

Signature of the Applicant