

#### **PATRONS**

Rev. Dr. Leonard Fernando SJ, Rector  
Rev. Dr. S. Peter SJ, Secretary  
Rev. Dr. M. Arockiasamy Xavier SJ, Principal

#### **DEPUTY PRINCIPAL**

Dr.V. Alex Ramani

#### **DEAN OF MANAGEMENT STUDIES**

Rev. Dr. K. Arockiam SJ

#### **CONVENERS**

Dr. FR Alexander Pravin Durai,  
Head, Department of Commerce  
Prof. S. Kirubakaran, Coordinator,  
Department of Commerce - Shift II.

#### **ORGANISING SECRETARY**

Dr. S. Jerome, Assistant Professor.

#### **ORGANISING COMMITTEE MEMBERS**

Dr. L. Georgia, Assistant Professor  
Prof. C. Soundarya, Assistant Professor  
Prof. Dennis Edward Fernando, Assistant Professor  
Dr. S. Arumugam, Assistant Professor  
Prof. J. Pavulraj, Assistant Professor  
Prof. J. Camilton, Assistant Professor

#### **FOR CONTACT DETAILS**

Prof. S. Kirubakaran - 8940695712  
Dr. S. Jerome - 7667847733  
Department of Commerce, Shift - II,  
St. Joseph's College (Autonomous),  
Tiruchirappalli-620002, Tamil Nadu.

### ONE DAY NATIONAL WORKSHOP ON BUSINESS ANALYTICS AND VISUALIZATION IN 'R' LANGUAGE

Date  
10<sup>th</sup> February 2020

#### REGISTRATION FORM

Name \_\_\_\_\_  
Designation: \_\_\_\_\_  
Organisation/Industry \_\_\_\_\_  
Address : \_\_\_\_\_  
City: \_\_\_\_\_  
State \_\_\_\_\_ PIN \_\_\_\_\_  
Details of Fees paid: Rs. \_\_\_\_\_  
Bank Draft No. \_\_\_\_\_  
Dt. \_\_\_\_\_ Drawn on Bank \_\_\_\_\_  
Signature \_\_\_\_\_  
Date \_\_\_\_\_

### ONE DAY NATIONAL WORKSHOP ON BUSINESS ANALYTICS AND VISUALIZATION IN 'R' LANGUAGE

Date  
10<sup>th</sup> February 2020

Venue  
Commerce AV Hall,  
St. Joseph's College



Organized by  
**DEPARTMENT OF COMMERCE - SHIFT II**  
(SCHOOL OF MANAGEMENT STUDIES)  
**ST. JOSEPH'S COLLEGE (AUTONOMOUS)**  
Special Heritage Status awarded by UGC  
Nationally Accredited at A++ Grade (4<sup>th</sup> Cycle)  
College with Potential for Excellence  
DBT-STAR & DST - FIST Sponsored College  
**TIRUCHIRAPPALLI - 620 002**  
Tamil Nadu, India.

#### **About St. Joseph's College**

St. Joseph's College is located in Tiruchirappalli, Tamil Nadu, India. The institute was established in 1844. The autonomous institute is accredited A++ grade by NAAC. It was affiliated to Madras University in 1869 and is currently an affiliated first grade college of Bharathidasan University. It is the only college in Tamil Nadu awarded with "Heritage Status" by UGC of India. This Jesuit College trains young men and women of quality to be leaders in all walks of life so that they may serve the people of the nation in truth, justice and love. The college has been running with the motto of Pro Bono ET Vero (for the Good and the True). St Joseph's College has produced a number of rare and remarkable geniuses, of whom the crown is the Former President of India, His Excellency, Bharat Ratna Dr A P J Abdul Kalam. Apart from regular syllabi inculcate in the students through courses in Ethics/Religion, basic moral, social and spiritual values necessary for building up character and developing personality.

#### **About the Department**

The Department of Commerce was started in the year 1948, for offering the three-year B.Com degree course with the motive of inculcating professional ethics and competency in business and management. The B Com course has been offered in Shift-II since 1972. The department is very proud to have introduced and taught Card Punching, BASIC, COBAL and FORTRAN - the most popular computer languages as early as 1970s. The department is the pioneer in introducing courses on business ethics, computer languages and applications and accounting

software in the state. The department has the distinction of introducing courses for holistic development of individuals with social thrust. The department prepares students to pursue professional courses such as CA, CMA and ACS through feeder courses.

#### **About the Workshop**

Today, millions of analysts, researchers, and brands such as Face book, Google, Bing, Accenture, Wipro are using R to solve complex issues. R applications are not limited to just one sector; we can see R programming in banking, e-commerce, finance and many more. Data Science is most widely used in the financial industries. R is the most popular tool for this role. This is because R provides an advanced statistical suite that is able to carry out all the necessary financial tasks. With the help of R, financial institutions are able to perform downside risk measurement, adjust risk performance and utilize visualizations like Candlestick charts, density plots, drawdown plots, etc. R is widely being used for credit risk analysis at ANZ and portfolio management. So the faculty of department has planned to organize the workshop to meet the need of the hour to develop the analytical skills of the professors, research scholars and so on.

#### **Who Should Attend:**

As this workshop is not meant for subject-specific, teaching faculty from all colleges (engineering, sciences, arts, commerce, management, law, medicine, etc.), can attend.

Teachers registered in any Masters programme, and Research Scholars can also participate. The limited seats are available in the workshop; first come first serve basis.

#### **Criteria for Certification:**

Participation certificates will be provided to all the participants after successful completion of the workshop.

#### **Course Fee:**

Every participant has to pay Rs. 500 as the course fee and that fee would be meeting the cost of organizing the workshop (which includes lunch and coffee/tea).

#### **Registration :**

Registration fee is to be paid through a Demand Draft, drawn in the favor of Principal, St Joseph's College, payable at Tiruchirappalli. The interested participants are asked to confirm their registration on or before 1st February 2020.

#### **Content of the workshop**

- ✓ Introduction to basics of R
- ✓ Introduction to data frames in R
- ✓ Introduction to R Studio
- ✓ Introduction to R script
- ✓ Working Directories in R Studio
- ✓ Indexing and Slicing Data Frames
- ✓ Creating Matrices using Data Frames
- ✓ Operations on Matrices and Data Frames
- ✓ Merging and Importing Data
- ✓ Data Types and Factors
- ✓ Lists and its Operations
- ✓ Plotting Histograms and Pie Chart