



SHETH DAMODARDAS SCHOOL OF COMMERCE

Gujarat University, Ahmedabad

Organizes

UGC-HRDC (RUSA) Sponsored

One Week Faculty Development Programme

on

Research Methodology Using R and EVIEWS

From

22nd October 2018 TO 28th October 2018

VENUE:

SEMINAR HALL

S.D. School of Commerce

Gujarat University, Ahmedabad

ABOUT THE FACULTY DEVELOPMENT PROGRAMME (FDP):

Applied research is a systematic and objective process of gathering, recording and analyzing data for taking appropriate & meaningful decisions. In order to carry out applied research, the researchers need to design the study based on appropriate research methodology and data analysis techniques. Academic researchers and young faculties always find selecting a sound research domain and methodology challenging. Research requirements of various fields of social sciences are diverse and needs specialized support to select the most appropriate methodology. Moreover, process of instrument design, data collection, analysis and interpretation demands distinctive research acumen and competency. Especially analysis of mammoth data sets demands hands on experience of specialized softwares like SPSS, R and EVIEWS. Recently R and EVIEWS are gaining their important role as data analysis software in the world of Applied Research, especially in Business Analytics and Managerial Decision Making. Knowledge about the use of these softwares for data analysis enhances the job prospects for the Academic Researchers and Data Scientists due to their ever increasing applications in academic as well as business research. To keep pace with the recent advancements in any discipline, one has to be well versed with the latest developments in statistical data analysis. The participants will gain an opportunity to interact with the eminent resource persons and discuss their research related issues with them. They will be able to enhance their analytical skills and thereby bring spark of validity and reliability to their own research work through this workshop. Focus will also be laid upon conducting quantitative research through R and EVIEWS.

2) PARTICIPATION ELIGIBILITY:

This FDP is planned for the academicians pursuing research in various academic disciplines belonging to State as well as National Universities and Academic Institutions. The basic aim of the FDP to help young faculty members, and academic researchers to gain sufficient skills of choosing appropriate methodology and using software tools for data analysis for conducting research in fields of management and Social sciences. Interested faculty members, including part-time faculties, tenure based faculties, adhoc faculties, adhyapakshayak and visiting faculties of Statistics, Social Sciences, Commerce and Management of any College or University in India can also participate in this programme.

3) PEDAGOGY:

Lectures and Practical sessions will be conducted on laptops to be brought by participants. **It is mandatory for the participants to carry their Laptops for the practical sessions of the programme so that they can learn the software operating skills during the sessions.**

4) NUMBER OF SEATS:

The number of seats is limited to **30 seats** in order to maintain the academic quality of the FDP and hence the interested participants are requested to register at the earliest.

5) REGISTRATION PROCESS:

Registration Fees: Rs. 1000/-

Last Date of Registration: 15th October 2018

Registration fees should be submitted through a Demand Draft drawn in favour of "Director-HRDC Gujarat University", along with duly filled Registration form attached herewith. Registration will be based on FIRST COME FIRST SERVE basis

Registration Fees include Programme Kit consisting of Programme Schedule and Study Material in Soft copy, Breakfast and Lunch facility. Free accommodation will be provided to out-station participants by HRDC Gujarat University, as per the availability, by HRDC, if requested well in advance through the registration form. **Participants from recognized academic institutions as per UGC 12(B) will be eligible for Travelling Allowance up to a maximum of III AC by train as per the rates in their original travel tickets, only**

on providing sufficient evidence. All payments will be made through NEFT through direct bank transfer; no payment will be made in cash. For this purpose the eligible participants are required to submit the required details of their bank account through a cancelled cheque and self- attested copies of their PAN Card and AADHAR Card.

6) CERTIFICATION:

Participants will be awarded with a Certificate of Successful Completion of the programme byUGC -HRDC Gujarat University at the end of the programme.

7) PROGRAMME CONTENT:

Topic
Introduction to Research Methodology and Business Analytics, Statistical Thinking in Research, Structuring a Research Proposal,
Literature Review, Knowledge of Research Funding Agencies, Referencing and Citations
Use of Measurement Scales and Scaling Techniques in Questionnaire, Preparing Questionnaire as a Google Form
Data Types, Basics of R Environment, R Script, Basics of R Programming
Data Sets in R, Vector, Matrices, Import and Export of Data Files, Reading EXCEL Spread Sheets in R, Merging Data Sets in R
Data Processing, Handling Missing Observations and Outliers with R
Data Visualization: Histogram, Box Plot, Stem and Leaf Plot, Bar Chart, Scatter Plot in R
Descriptive Statistics: Univariate Analysis: Central Tendency, Dispersion, Skewness and Kurtosis Using R,
Bivariate Analysis: Correlation Analysis, Simple Regression Analysis using R
Checking the Assumptions of Multivariate Analysis: Checking for Normality, Multicollinearity, Heteroscedasticity, Autocorrelation
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Multiple Regression Analysis, Logistic Regression and Discriminant Analysis using R
Factor Analysis, Cluster Analysis and Multidimensional Scaling using R
Inferential Statistics: Hypothesis Testing, Family of t-test, F test and Chi-Square test, One Way and Two Way ANOVA Using R
Non-Parametric Tests: Run Test, Sign Test, WilKoxon's Signed Rank Test, Mann-Whitney U test, Kolmogorov -Smirnov Test Using R
Descriptive Statistics: Univariate Analysis and Bivariate Analysis Using E-Views
Analyzing Time Series Data: Introduction to Autocorrelation and Autoregressive Models
Estimating AR, MA, ARMA, ARIMA, ARCH and GARCH Models
Unit Root test, Granger Causality Test EViews
Cointegration and VAR Models using EViews
Analyzing Panel Data: Introduction and Estimation of Fixed Effect and Random Effect Models, Hausman's Test, Schwartz and Akaike's Criterion using EViews
Analyzing Panel Data: Introduction and Estimation of Fixed Effect and Random Effect Models using EViews

- **PROGRAMME TIMINGS: 10-00A.M. TO 5-00P.M.**

8) ABOUT GUJARAT UNIVERSITY:

The Gujarat University was conceived in the nineteen twenties in the minds of public-spirited and learned men like Gandhiji, Sardar Patel, Acharya Anandshankar B. Dhruva, Dada Saheb Mavlankar, Kasturbhai Lalbhai and many others. However, the University

could come into existence only after the achievement of independence. In 1949, the University was incorporated under the Gujarat University Act of the State Government 'as a teaching and affiliating University.' This was done as a measure of decentralization and reorganization of University education in the then Province of Bombay. Gujarat University is the largest university in the state catering to the needs of higher education of more than four lakh students scattered over 286 colleges, 22 recognized institutions and 24 approved institutions. There are 36 Post-Graduate University departments and 221 P.G. Centres. New 140250 students are enrolled at under graduate level and Post Graduate level in academic year 2016-17. Gujarat University is an affiliating University at the under-graduate level, while it is a teaching one at the post-graduate level. An important feature of this University is the system of external examinations in the Faculties of Arts and Commerce, both at under-graduate and post-graduate levels. The external examinations were introduced with a view to enabling working students and the others who could not afford the high cost of university education to realize their dream. It is a multi-disciplinary university offering non-tech courses like Commerce, Science, Arts and Law.

The chronicle of major initiatives undertaken and institutional paradigm shifts that have swirled around Gujarat University are nothing short of amazing. It is a pioneer in initiating startup and Entrepreneurship council (GUSEC), which has been opened to support innovative technology startups in line with the university non-tech courses. Many new departments introducing new courses have been parallelly set up. Gujarat University has simultaneously set up a research park-Park for Industrial Extension and Research(PIER). The current focus of Gujarat University is focused on research and extension activities to promote employment and self-employment opportunities to promote organic growth and economic opportunities. The university believes in an all-round development and true to its ideals, has planned to develop a sports complex which is at par with the international standards.

9) ABOUT S.D. SCHOOL OF COMMERCE:

Sheth Damodardas school of Commerce is a post graduate department of Gujarat University imparting instructions and guidance for the students preparing for M.Com, M.Phil., Ph.D. degree. The school was established in June 1976 and offers specialization in the subjects of Accounting, Management, Statistics, Banking and International Business. The Vision of the School is to impart value based education in the field of commerce to the students enrolled. A strong endeavor is to develop all the latent abilities of the students so that they evolve into good citizens and become transformational professionals and academicians. The School has commendable achievements to its credit. The School has organized state, National and International level seminars on various topics of Accountancy, Economics, Management and Finance. The School has been offering higher payment programmes- Post graduate diploma in Investment and Financial Analysis since 1995 and Post graduate diploma in Financial Market and Insurance since 2005. The School has now launched three new Higher Payment Programmes (HPP) programmes from the academic year 2017-18. The School takes pride that it was a pioneer in offering programmes relating to finance and markets which are still at the center stage of the economy and in conformity with the vision of the School, with these three new programmes it has again gained a first mover advantage by offering courses relating to business Analytics, Forensic Accounting, and Teaching, Learning and Research in Higher education.

10) ABOUT AHMEDABAD CITY:

Ahmedabad is the largest city in the state of Gujarat. It is located in western India on the banks of the River Sabarmati. The city served as political as well as economical capital of the region since its establishment. The earliest settlement can be recorded around the 12th century under Chaulukya dynasty rule. The present city was founded on 26 February 1411 and announced as the capital on 4 March 1411 by Ahmed Shah I of Gujarat

Sultanate as a new capital. Under the rule of sultanate (1411–1511) the city prospered followed by decline (1511–1572) when the capital was transferred to Champaner. For next 135 years (1572-1707), the city renewed greatness under the early rulers of Mughal Empire. The city suffered due to political instability (1707-1817) under late Mughal rulers followed by joint rule between Maratha and Mughal. The city further suffered following joint Maratha rule. The city again progressed when politically stabilized when British East India Company established the rule in the city (1818-1857). The city further renewed growth when it gain political freedom by establishment of municipality and opening of railway under British crown rule (1857–1947). Following arrival of Mahatma Gandhi in 1915, the city became centre stage of Indian independence movement. Many activists like Sardar Patel served the municipality of the city before taking part in the movement. After independence, the city was a part of Bombay state. When Gujarat was carved out in 1960, it again became the capital of the state until establishment of Gandhinagar in 1965. Ahmedabad is also the cultural and economic centre of Gujarat and the seventh largest city of India. Today, we see a wonderful mélange of old and new Ahmedabad and it indeed does keep things interesting for the tourists. Be it the incredible latticework or the pols, be it the grand Jumma Masjid or the Adalaj Step Well, Siddi Sayed Mosque, Sabarmati Ashram, SarkhejRoja, Kankaria Lake, Nalsarovar Bird Sanctuary, Akshardham Temple – the city is now a Heritage City. Temperature of the city during the month of October ranges from 21-36 degree centigrade. Ahmedabad is well connected by all the three travel modes: Road way, Rail way and Air lines connectivity with frequent travel options from almost all parts of India and hence reaching Ahmedabad is not a difficulty if the travel is well planned.

CHIEF PATRON

Prof. (Dr.) H. A. PANDYA, Vice-Chancellor, Gujarat University

PATRONS

Dr. JAGDISH JOSHI, Director, UGC-HRDC, Gujarat University

Dr. P.M.PATEL (I/C), Registrar, Gujarat University

ADVISORY COMMITTEE

Prof (Dr.) B. V .PATHAK, (FDP DIRECTOR) Director, S. D. School of Commerce

Prof. (Dr.) P.P. PRAJAPATI, Dean, Faculty of Commerce, Gujarat University

Dr. R. G. BHATT, Director, Department of Statistics, Faculty of Science, Gujarat University

Dr. N. D. SHAH, Chairman, Board of Studies (Statistics) , Gujarat University

Dr. KAUSHIK RAVAL, Director, School of Law, Gujarat University

Dr. SONAL PANDYA, Head, Department of Communication, Journalism and Public Relation, Gujarat University

Dr. SHITAL SHUKLA, Head, Department of Earth Science, Gujarat University

ORGANIZING COMMITTEE

Prof (Dr.) B.V.PATHAK, (FDP DIRECTOR) Director, S. D. School of Commerce

Prof (Dr.) H.C. SARDAR, Professor, S.D. School of Commerce

Dr. S.S.SODHA, Associate Professor, S.D. School of Commerce

Dr. C.R. MARVADI, Assistant Professor, S.D. School of Commerce

FDP CO-ORDINATOR

Prof. (Dr.) HEMAL PANDYA

JOINT CO-ORDINATOR

Dr. GURUDATTA JAPEE

Note: For any further enquiry, you may contact Dr. Hemal Pandya, Programme Co-Ordinator on (M): 9879005768, through a phone call or WhatsApp message or send an email to hemal1967@gmail.com.

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**Organized by
Sheth Damodardas School of Commerce, Gujarat University,
Ahmedabad**

REGISTRATION FORM

(A) Personal Details:

Full Name (Mrs. / Ms. /Dr. / Prof.): _____

☐ Designation: _____ Specialization Subject: _____

☐ Institute / Organization: _____

☐ Address: _____

☐ City: _____ State: _____ Pin code: _____

☐ Telephone: _____ Mobile Number: _____

Email: _____

Accommodation Requirement: Yes _____ No _____

AADHAR Number _____ PAN Number: _____

BANK ACCOUNT No.: _____ BRANCH NAME: _____

IFSC CODE: _____

(B) Registration Fees Details:

DD No.: _____ Date ____/____/2018 Drawn on Bank _____

DD Amount _____

DECLARATION: I hereby declare that the information mentioned above is true to the best of our knowledge and belief.

Signature