



RESEARCH CAPACITY BUILDING PROGRAM (RCBP)

BROCHURE 2021



gIFT

GULATI INSTITUTE OF
FINANCE AND TAXATION



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Gulati Institute of Finance and Taxation (GIFT), formerly Centre for Taxation Studies (CTS), was conceived as a premier national Institute to promote theoretically grounded and empirically-based research within an interdisciplinary perspective to aid policymaking at the national and sub-national level. Recognized by the Indian Council of Social Science Research (ICSSR) and affiliated to Cochin University of Science and Technology, GIFT is also mandated to facilitate research leading to Ph. D. It also offers a Post Graduate Diploma in Goods and Service Taxation (PGD-GST), apart from being a highly acclaimed Institute undertaking training programs for capacity building of different stakeholders, including Government officials. The Finance Minister of the Government of Kerala is the chairperson of the Institute. Situated by the side of the National Highway near Sreekariyam on a sprawling green campus the Institute is having state of the art infrastructural facilities for research and seminars/conferences like basement parking and an air-conditioned auditorium with a seating capacity of 300. While the State Government provided the land needed for the campus, the construction of the campus was made financial support offered by the Ministry of Finance, Government of India.



GIFT initiated the Research Capacity Building Program (RCBP) in 2019-20 to facilitate the creation of an interactive learning platform for research capacity building of Ph.D. scholars. Conceived as a program that goes beyond the conventional research methodology program, RCBP aims at facilitating the development of different capabilities that enable the scholars to prepare a good research proposal and its implementation. It is accomplished inter alia by interactions with eminent scholars on the making of a good Ph.D. thesis, lectures on databases and data collection along with the building up of quantitative and qualitative analytical skills to carry out research work with rigour and depth. The program also provides an opportunity for the scholars to present their research problem and get benefitted from eminent scholars and peers. Considering the imperative of reducing the dependence on proprietary software, RCBP envisages to equip the scholars to undertake data analytics using R software

RCBP is of six months programme, divided into two parts: (A) Research Methodology and (B) Data Analytics using R Software. Part A is designed to equip participants with integrated learning of methodological tools that scholars may need during the life cycle of their doctoral research and beyond. The course intends to give minimum skills in major areas so that scholars are able to independently learn advanced levels if needed for their research. Part B is to make participants proficient in statistical computing methods. After successful completion of the course, participants are expected to successfully apply their programming skills to model social science problems.

Duration

RCBP is a half-yearly program starting from June 2021 to December 2021. The course curriculum consists of two papers (for syllabus, refer to Section 8), and the medium of instruction and examination will be in English. A total of 100 teaching hours covering both Part A and Part B of the courses will be offered in online mode.

Eligibility and Admission

Who can apply : Master's degree holders in any discipline of Social Science are eligible to apply. Scholars who are currently enrolled into M.Phil/Ph.D. programs of any social science discipline are encouraged to apply. Faculty members in any social science discipline of various colleges and universities aiming to refresh their knowledge and seeking to learn new tools of data analytics are encouraged to apply. There is no age limit for joining this programme.

How to apply : The interested candidates may submit their application form along with a copy of their master's degree and no-objection certificate (NOC) from the head of the department concerned and remit the prescribed fees ONLINE only. For the online application form, follow the RCBP link on the GIFT website, www.gift.res.in.

Last date for submitting filled up application form along with Fee Receipt: June 13, 2021. For course fee details, please refer to Section 5.

Session commences : June 15, 2021.

Admission : Admission to the RCBP program will be based on duly submitting the application form along with the course fee.

Course Fee

Category	Research Methodology (Part A only)	Research Methodology & Data Analytics using R (Full Program)
Students	Net Fee=3389	Net Fee=6779
	GST (9% CGST & 9% SGST) =611	GST (9% CGST & 9% SGST) =1221
	Total Fee (including GST) =4000/-	Total Fee (including GST) =8000/-
Faculty	Net Fee=5084	Net Fee=10169
	GST (9% CGST & 9% SGST) =916	GST (9% CGST & 9% SGST) =1831
	Total Fee (including GST) =6000/-	Total Fee (including GST) =12000/-

*The total fee amount to be paid along with the application form. Those who are opting for full program, the instalment option is also available. The details are provided in the application form.

Fee waiver: Full course fee waiver may be considered for the full time registered Ph.D. scholars having no financial assistance from the Universities or any other fellowship such as UGC JRF/ICSSR upon submitting a letter from the head of the department /school/institute. Those who have deregistered from the program is not eligible for fee waiver. The applicants applying for waiver need not pay any fee initially; instead, the letter must be enclosed with the application form. The number of such participants is limited to 25% of the total intake , and the waiver may be provided first come first served basis.

Payment of Fee: All fees should be paid through NEFT only. No fees will be collected in cash or by cheque or by demand draft.

Refund of Fee: Fees once paid will not be refunded. However, if the Institute rejects the application, the fees remitted will be refunded after deducting administrative charges as decided by the Institute.

Communication to Participants: All communications to the participants regarding admission, dates and examinations will be through email.

Logistical Support

GIFT has well-equipped classrooms, a computer lab and a leading research and reference library.

Attendance and Certificate

The students are supposed to maintain 75% attendance to get the course certificate.

Part A: Research Methodology

Module I: Basics of Applied Research

Aspects of Social Science Research, Qualitative/Quantitative and Mixed Methods, Research Design, Research Tools, Ethics of Research, Library and E-Library Training.

Module II: Statistical Techniques

Sampling, Reliability and Validity, Inferential Statistics, Multivariate Analysis - Regression, Model Adequacy - Tests and Remedies, Factor Analysis and Other Methods, Qualitative Independent and Dependent Variables, Time Series and Panel Data Analysis, Workshops in Gretl (and/or Stata).

Module III: Field Survey Data

Field Research and Survey Methods, Field Survey, Data Entry (CSPPro 6.3), Data Entry (CSPPro 6), Quantitative Data Analysis, Qualitative Data Analysis, Use of Data in Social Science Research.

Module IV: Database on Indian Economy

This module intends to provide an in-depth exposure to various databases that include but not limited to household level (NSS data and IHDS data), firm level (ASI and PROWESS) and other macro level databases relating to labour and employment, trade and finance and other sectors of the economy.

Module V: Academic Writing

Academic Writing, Ethics in Writing, Structure of Academic Writing, Elements of Writing, Literature Survey, Research Proposal, Publication Process.

Reading List

- Geoff Payne and Judy Payne 2004. Key Concepts in Social Research, SAGE Publications India Pvt Ltd
- Leonard Bickman, Debra J. Rog (Ed.). 2009. The Sage Handbook of Applied Social Research Methods 2nd ed. SAGE Publications India Pvt Ltd
- Melissa Hardy and Alan Bryman (Ed.) 2004/2009 Handbook of Data Analysis, SAGE Publications India Pvt Ltd
- Norman K. Denzin and Yvonna S. Lincoln (Ed.). 2018. The SAGE Handbook of Qualitative Research. 5th Edition. SAGE Publications India Pvt Ltd

- Pertti Alasuutari, Leonard Bickman, and Julia Brannen (Ed.) 2008. The SAGE Handbook of Social Research Methods. SAGE Publications India Pvt Ltd
- Gary Goertz & James Mahoney. 2012. A Tale of Two Cultures: Qualitative and Quantitative Research in the Social Sciences. Princeton University Press, Princeton, and Oxford.
- John W. Creswell and J. David Creswell. 2018. Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Fifth Edition. SAGE Publications India Pvt. Ltd.
- Matt Henn, Mark Weinstein and Nick Foard. 2006. A Short Introduction to Social Research. SAGE Publications India Pvt. Ltd.

Part B: Data Analytics using R

Module 1: Introduction to R and R studio

Basics of R Programming, R Markdown Files, Primitive Object Types: Vectors, List, Matrices, Arrays, Factors, Data Frames.

Module 2: Loops and Functions in R

for loops, while loops and if-else loops in R. Functions in R: Functions vs. Loops; Application of R Functions

Module 3: Working with Data

Importing and Exporting Data, Data Cleaning, Data Visualization, Data Formatting and Wrangling, Data Analytics in R: Accessing External Databases from R Console, Data Visualization

Module 4: Data Analysis-I

Summary Statistics; Correlation and Covariance; Probability Distributions, Hypothesis Testing: T test, F test, Chi-square test.

Module 5: Data Analysis-II

Regression in R, Constructing an OLS Model, Pre-estimation and Post Estimation Diagnostic Testing, ANOVA, Forecasting, Dummy Variable Regression, Logistic Regression Models.

References

- Data analytics with R, Bharti Motwani(1st Edition) , Wiley,2019
- The R Book, Michael J Crawley(2nd Edition), Wiley, 2018
- An Introduction to Statistical Learning: with Applications in R (Springer Texts in Statistics) Gareth James et al. (7th Edition), Springer, 2017
- Econometrics in R, Grant V Farnsworth, Ebook, <https://cran.r-project.org/doc/contrib/Farnsworth-EconometricsInR.pdf>

Prof. A V Jose, Honorary Professor & Former Director

https://www.gift.res.in/faculty/faculty_details/32/Prof-A-V-Jose

Prof. D Narayana, Honorary Professor & Former Director

https://www.gift.res.in/faculty/faculty_details/31/Prof-D-Narayana

Prof. K J Joseph, Professor & Director

https://www.gift.res.in/faculty/faculty_details/65/Dr-K-J-Joseph

Dr. Vijayamohanan Pillai N, Guest Faculty

https://www.gift.res.in/faculty/faculty_details/43/Dr-Vijayamohanan-Pillai-N

Smt. L Anitha Kumary, Associate Professor

https://www.gift.res.in/faculty/faculty_details/69/Smt-L-Anitha-Kumary

Dr. N Ramlingam, Associate Professor

https://www.gift.res.in/faculty/faculty_details/63/Dr-N-Ramalingam

Dr. Thomas Joseph, Associate Professor

https://www.gift.res.in/faculty/faculty_details/60/Dr-Thomas-Joseph

Smt. Jenny Thekkekara, Associate Professor

https://www.gift.res.in/faculty/faculty_details/67/Smt-Jenny-Thekkekara

Dr. Md Zakaria Siddiqui, Associate Professor

https://www.gift.res.in/faculty/faculty_details/59/Dr-Md-Zakaria-Siddiqui

Dr. Parma Chakravartti, Assistant Professor

https://www.gift.res.in/faculty/faculty_details/64/Dr-Parma-Chakravartti

Dr. Santhosh Kumar Dash, Assistant Professor

https://www.gift.res.in/faculty/faculty_details/61/Dr-Santosh-Kumar-Dash

Dr. Anoop S Kumar, Assistant Professor

https://www.gift.res.in/faculty/faculty_details/68/Dr-Anoop-S-Kumar

Dr. Kiran Kumar Kakarlapudi, Assistant Professor

https://www.gift.res.in/faculty/faculty_details/66/Dr-Kiran-Kumar-Kakarlapudi

Dr. Renjith P S, Assistant Professor & RCBP Coordinator

https://www.gift.res.in/faculty/faculty_details/62/Dr-Renjith-P-S

The participants will get an opportunity to interact with Prof. T M Thomas Isaac, former Finance Minister of Kerala and other distinguished professors of GIFT (<https://www.gift.res.in/index.php/faculty/details/5/Distinguished-Professors>) in special sessions. Along with GIFT faculty, experts from other universities/institutes will join to deliver special lectures in some of the modules.

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