



# UNIVERSITY GRANTS COMMISSION

## HUMAN RESOURCE DEVELOPMENT CENTRE

### UNIVERSITY OF KERALA UGC-SPONSORED REFRESHER COURSE

#### CERTIFICATE OF PARTICIPATION

*This is to certify that Dr. Sajan Thomas, Assistant Professor, Department of Political Science and Public Administration, St. John's College, Anchal, participated in the UGC-Sponsored Refresher Course in Citation Network Analysis and Exploratory Data Analysis Using R (Multidisciplinary) conducted by the UGC-Human Resource Development Centre, University of Kerala, Kariavattom, Trivandrum, from 18-02-2020 to 02-03-2020.*

*The Grade awarded is .....A.....*



UGC-HRDC  
Kariavattom  
02-03-2020

Course Co-ordinator  
Dr. K. Satheesh Kumar

Professor - Director  
Prof. S. V. Sudheer

Vice-Chancellor  
Prof. V. P. Mahadevan Pillai