Research Methodology Workshop using R Software
May 02, 2022 - May 06, 2022

Six days workshop on "R Software" was organized by the Department of Tourism and Travel Management, Central University of Jammu from 2nd May to 6th May, 2022. The workshop was held in virtual mode. There were registrations from different states of India. The specific objectives of the workshop were to give beginners a theoretical and practical understanding of R Software and to familiarize the participants with advanced coding methods to enhance learning. The participants refer to attend 100% of the session of the program, active involvement in the session and try to obtain more than 60% marks in the assignment and final online test. There were 10 session of 60 minutes each. You Tube channel was created where access to video lectures was provided to participants for better understanding of content.

The Proceedings of the Workshop:

A total of 400+ registrations were made for participation in this workshop from 219 universities worldwide. The participants comprise of faculty members, research scholars, and students from different institutes all over India. The selection of participants was done based on first-cum-first-serve basis and the confirmed candidates were notified immediately. The list of selected participants was sent personal e-mail ids for confirmation by **Ankit Kumar (Research scholar)**. The participants registered themselves for this workshop from

various universities/institutes like IIM Indore, IIT Delhi, IIT Kharagpur, IIT Tirupati, Institute for Tourism and Marketing Indian Institute of Technology Ropar Muslim University, Acharya Bangalore B School, Central University Jammu, Central University of Gujarat, Central University of Himachal Pradesh, Central University of Rajasthan, Central University of Tamil Nadu, Jamia Millia Islamia, Jawaharlal Nehru university, National Institute of Cooperative Management, Pondicherry University, Sharda University, University of Delhi and University of Mysore, Aligarh Muslim University, Alpha Group of Institutions, Amazon Development Center India Pvt. Ltd, Amity University Noida, Amity University Uttar Pradesh, Amrutha Sai Institute of Science and Technology, Anand Agricultural University, Andhra University, Assam University, Baba Ghlum Shah University, Bahra University, BAJAJ AUTO LTD, Banaras Hindu University, Bharath Institute of Higher Education and Research Chennai, Bharati Vidyapeeth's College Of Engineering For Women, Bharati Vidyapeeth's Institute of Management Studies & Research, BMS College of Commerce and Management, BTC DAV College Banikhet, BVIMSR Navi Mumbai, Carmel College of Arts, Science And Commerce for Women, Nuvem-Goa, Ccs University Meerut, Central University Kashmir, Central University of Haryana, Central University of Karnataka, Central University of Kerala, Chinmaya Vishwa Vidyapeeth, College of Community Science PJTSAU Hyderabad, College of Engineering Pune (COEP), CSIR NBRI, DCRUST- Murthal, Dr Rammanohar Lohia Avadh University- Ayodhya, Dr. N. G. P Arts and Science College, Dr. RML Avadh University, Ayodhya (UP), Dr. Yashwant Singh Parmar Government Post Graduate College- Nahan, Dr. B.R. Ambedkar University - Srikakulam, Dr. Babasaheb Ambedkar Marathwada University, Fakir Mohan University – Odisha, Farook College – Kerala, Flipkart, Gauhati Commerce College, Rajju Shroff ROFEL Institute of Management Studies – Vapi, Global Academy of Technology, Goa University, Government College of Engineering and Textile Technology – Berhampore, Government Degree College Dharamshala, Guru Govind University, Govt. College Kattappana – Kerala, Govt. J Y Chhattisgarh College – Raipur, Govt. College for Girls Gurugram, Govt. Digvijay Autonomous College Rajnandgaon - Chhattisgarh, Govt. P. G. College - Obra, Govt. Homoeopathic Medical college, Gujarat National Law University,Guru Nanak Dev University, IMS Unison University, Indira Gandhi National Tribal University Amarkantak, Institute for Tourism and Marketing, Institute of Advanced Studies in Education Mizoram, Institute of Dental Sciences Jammu, Institute of Innovation in Technology and Management, Integral University, International institute for population science, IPS Academy, Islamic University of science and technology Kashmir, Punjab Technical University, Jiwaji University, JSPM Rajarshi Shahu College Of Engineering Pune Maharashtra India, Kalinga University, Kebri Dehar University Ethiopia, Kenyatta University, Kerala University of health sciences, Kongu Arts and Science College, Kunming university of science and technology China, Kurukshetra University, Lakireddy Bali Reddy College of Engineering, Lingyas Vidhyapeeth, Lovely Professional University, M J College, Jalgaon, Maharaja Sayajirao University of Baroda, Maharishi Dayanand University, Mahatma Gandhi College, Malaviya National Institute of Technology Jaipur, Mampong Technical College of Education, Manipal University Jaipur, Marwadi University, Mata Sundri University Girls College Punjab, Mazbat College, Mother Teresa Institute of Science and Technology, MPM Government First Grade College Karkala, National Institute of Cooperative Management, National institute of nutrition, Navsari Agricultural University, Netaji Subhas

University of Technology, New Delhi Institute of Management, Osmania University, P R Pote Patil College of Engineering and Management- Amravati, P R Pote Patil College of Engineering and Management- Maharashtra, Pandit Deendayal Energy University, PDEA Annasaheb Waghire Arts, Science and Commerce College Pune, Policy Planning Monitoring and Evaluation Directorate, Pondicherry University, Prathyusha Engineering College, Presidency University, Prestige Institute of Management and Research Indore, PSG College Of Arts & Science, Pune Institute of Business Management, Punjabi University Patiala, Ramnarain Ruia Autonomous College, Ranchi Women's College, Ranchi Women's College, Rivers State University port Harcourt, Royale College of Tourism management- Nainital, S R Luthra Institute of Management, Sanjivani College of Engineering – Pune, Shoolini University, Shri Mata Vaishno Devi University Katra, Sidho-Kanho-Birsha University- West Bengal, Sikkim University, Simad Univesity, Sree Chitra Thirunal Institute of medical Science and technology, Sree devi kumari women's college, kuzhithurai, Sree Saraswati Thyagaraja college, Sri Manakula Vinayagar engineering college, Sri Manakula Vinayagar Engineering College Pondicherry, Srishti College of Commerce and Management, University of Mysore, Subharti University, The Oxford College Of Business Management, The University of Burdwan, The University of Dodoma, Tolani Commerce College- Adipur, Tripura University, Tumkur University, University of agriculture sciences Raichur, University of Technology and Applied sciences –Muscat, Uttaranchal University, Vanita Vishram Women's University, Veer Kumwar Singh University- Ara, Veltech University, VHNSN College (Autonomous) and Vidyalankar Institute of Technology.
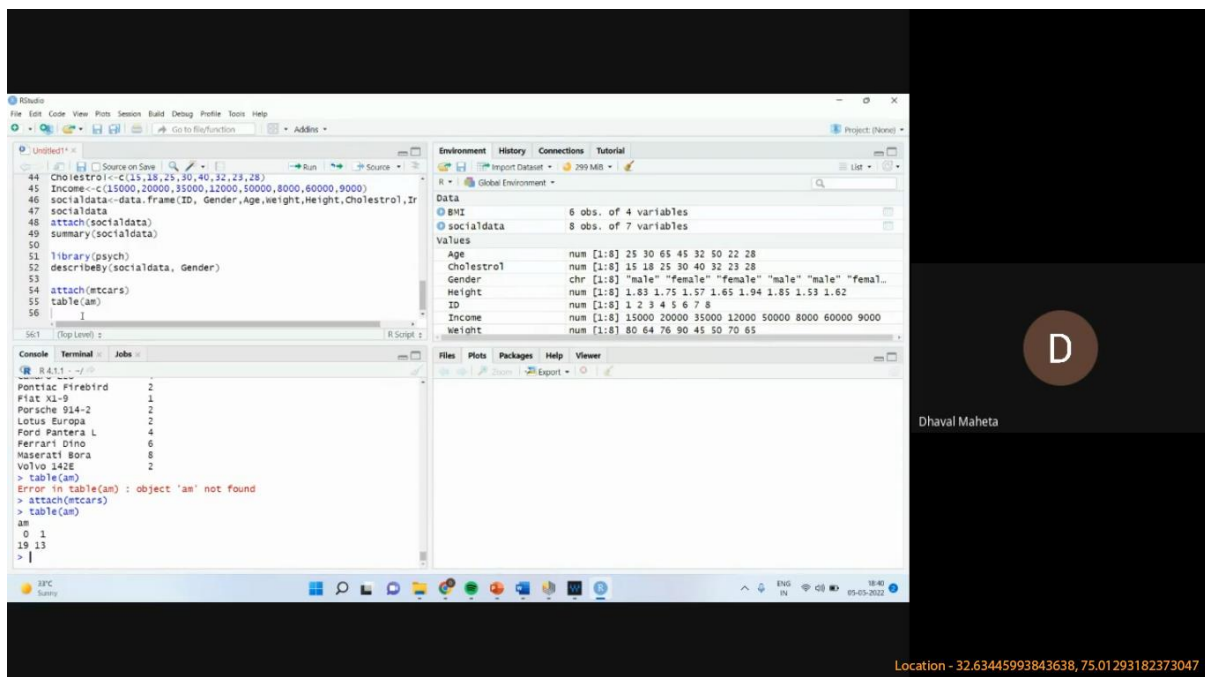
Day-1 (2nd May, 2022) Inaugural Session:

The workshop was inaugurated with a welcome note delivered by **Dr. Jaya Bhasin, Dean School of business studies**. She welcomed the guests and explained the importance of the workshop and encouraged the participants about the session conducted during the workshop. She introduced the central university of Jammu to the participants and said the University came in to existence on 8th August 2011 with the appointment of the first Vice-chancellor of the University. She said the faculties of the Department are currently working under the guidance of Honourable Vice-Chancellor Prof. Sanjeev Kumar Jain. She introduced the currently running the number of departments, and research centres offering various programs (such as PG, Integrated PG, and Ph.D.) at the University. Finally, she welcome all the participants and blessed them so that they could learn well.

After that, **Dr. Amit Gangotia Head**, Department of Tourism and Travel Management, Central University of Jammu gave vote of thanks and shared a few words with the participants. He emphasized the focus on the nuances of conducting research in the discipline of Management/Non-sciences and related disciplines with intense exposure to hands-on training in the application of R software techniques in data analysis He also encouraged participants for fruitful learning.

Research Scholar, Krishma Rana introduced the speaker of the first session, **Dr. Dhaval Maheta** who is doctorate in Management and currently working as an Assistant Professor, Department of Business and Industrial Management, Veer Narmad South Gujarat University, Surat. He has twenty years of Post – Graduate teaching experience over and above industrial experience with Multinational Finance Companies such as ICICI Bank and HDFC Ltd. He has presented and published 40 research papers in National and International Conferences. He has been the key resource person for the Research Methodology workshops organized at various levels including NITs and IIMs. He has completed minor research project titled "Effect of Money Supply on Stock Exchange". He has Books published with International Publishers as well. He has organized various Faculty Development Programme on Data Analysis using SPSS, R and R-Studio, Minitab, Excel, Power BI Desktop, Google Data Studio, Tableau, SPSS-AMOS, SEM using R, and Qualitative Data. More than 10,000 faculties, professionals and bureaucrats have been trained by him for various software related to data analysis. Finally, she requested Dr. Dhaval Maheta to come and start his lecture and enlighten the participants.

Dr. Dhaval Maheta taught participants about Introduction to R and Data Management using R. He answered various questions and queries of the participants during the lecture as well as after the lecture. First day was concluded with a thanksgiving note addressed by **Dr. Amit Gangotia Head,** Department of Tourism and Travel Management (CUJ).
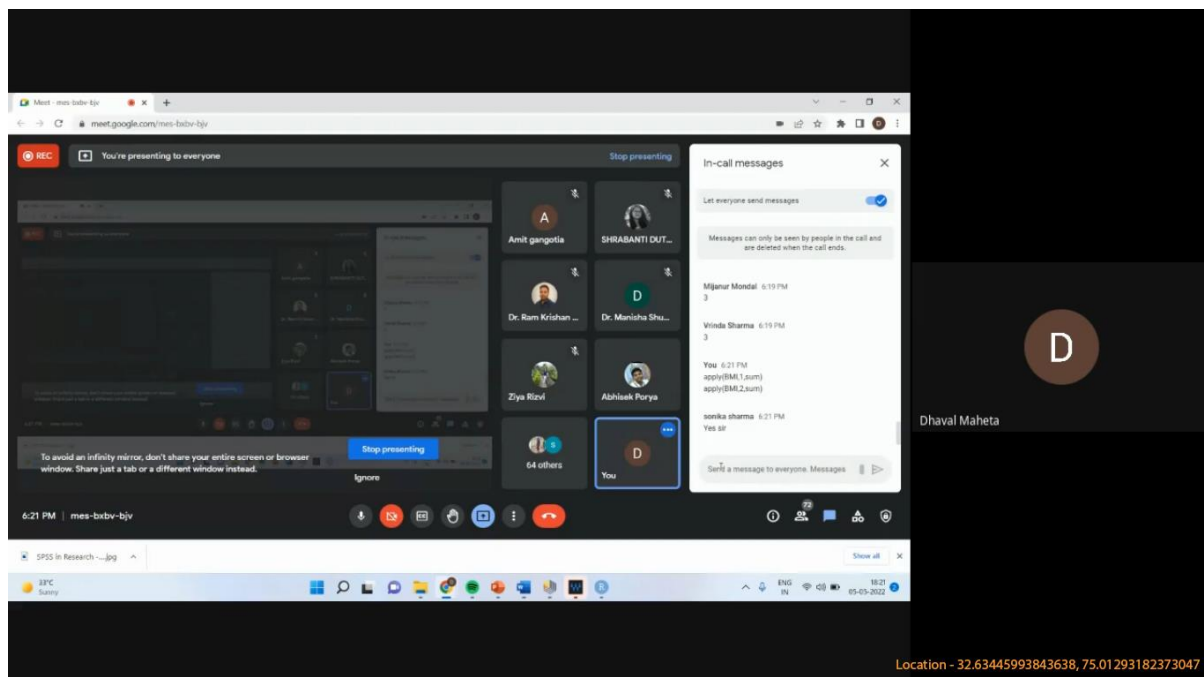

Day-2 (3ʳᵈ May, 2022)

Session commenced with an introduction of our eminent speaker **Dr. Hitesh Parmar** by **Krishma Rana** (Research Scholar). Dr. Hitesh Parmar works as an Assistant Professor at the Department of Business Management (MBA), Sardar Patel University, Gujarat, and holds a B.E. (Mechanical), MBA, PGDRM, and Ph.D. (Management) degree with 16+ years of experience in Management education. He has been invited as a resource person/expert/conference chair in at least 150 national events and has trained more than 5000 participants. He has co-authored three books on Business Statistics, Research Methodology, Production, and Operations Management. He has been invited as a resource person for several workshops on Data Analysis through various software such as SPSS, Minitab, R, E-Views, JAMOVI, and SPSS-AMOS. He has various research papers in national and international journals to his credit.

Dr. Hitesh Parmar taught about hypothesis testing and T tests in the session. He answered various questions and queries of the participants during the lecture as well as after the lecture. Session culminated with a thanksgiving note address to Dr. Hitesh Parmar by Dr. Amit Gangotia Head, Department of Tourism and Travel Management (CUJ)
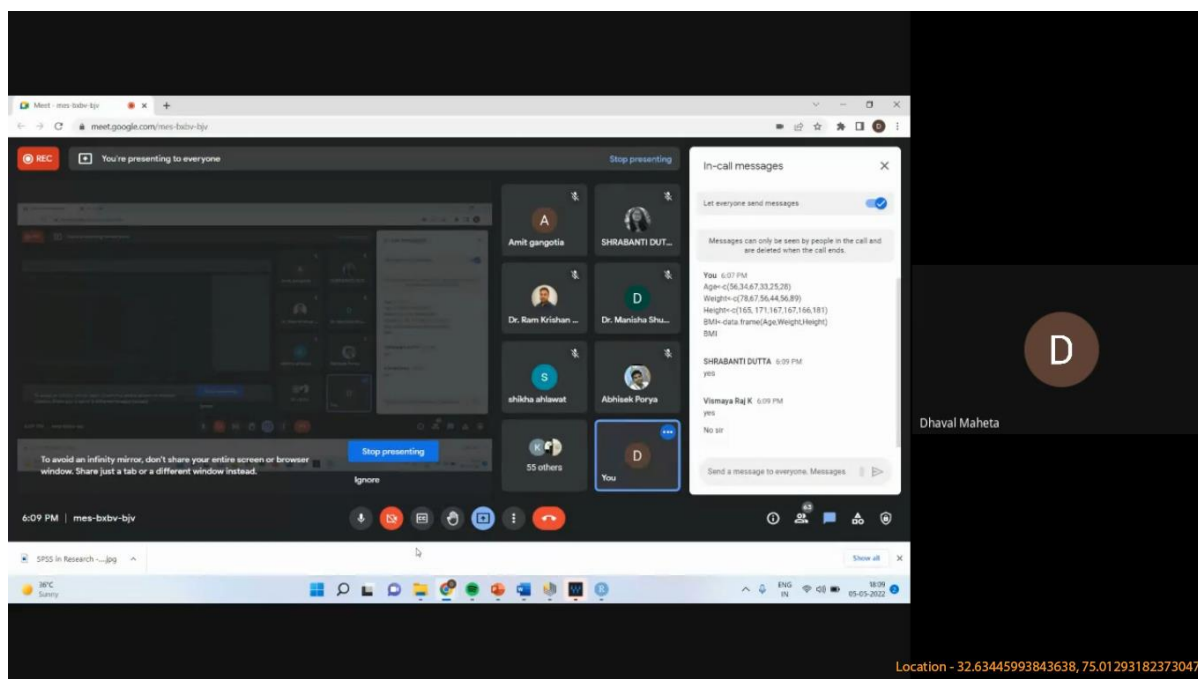
Day-3 (4th May, 2022)

Topic:-Graphical Representation of Data using R by Dr. Dhaval Maheta

Day-4 (5th May, 2022)

Topic:-Descriptive analysis and Graphical Representation of Data using R by Dr. Dhaval Maheta

Day-5 (6th May, 2022)

Research Scholar Ayush invited Dr. Hitesh Parmar for the session. During the session various topics were covered i.e. Parametric (ANOVA, Correlation) and Non- Parametric Tests (Wilcoxon Rank Test, Kruskal Walls Test, Chi Square Test)

Day-6 Valedictory Session (8th May, 2022)

In this session, a few participants shared their experiences during the workshop. They shared their learning and various participants requested the university to organize such more workshops in the future.

After that, **Professor Brijmohan Singh Bhau, Dean Research**, Central University of Jammu was invited as Special Guest for the session. Professor Brijmohan thanked Honourable Vice Chancellor Prof. Sanjeev Kumar Jain for giving such a wonderful opportunity to the Department of tourism and travel management to organize the R Workshop which has incorporated a great learning experience for the participants.

Then Special Session was taken by Dr. Dhaval Maheta on Data Manipulation.

For Concluding Remarks **Dr. Amit Gangotia, Head, Department of Tourism and Travel Management**, Central University of Jammu was invited, he thanked all the eminent speakers for the hard work and efforts for imparting the knowledge to students. He wished all the participants for their future endeavour and also announced the department will keep on organizing such many more workshops.

As it was the last session of the workshop; therefore both the eminent speakers joined this session together and answered all the queries of the participants. After that, **Dr. Ranjeet Kumar Raman Assistant Professor** gave a vote of thanks for the workshop. Firstly, he thanked the Honourable Vice- Chancellor, Professor Sanjeev Kumar Jain for providing the opportunity to organize this workshop. He thanked all the faculties, research scholars, and students of the Department of Tourism and Travel Management, Central University of Jammu. He also thanked all the participants who registered and actively participated in the workshop from various Institutions or Universities of the country. He also thanked the speakers for delivering such wonderful and useful lectures in the workshop. Finally he thanked all the coordinator for their efforts foe making a workshop a success.

This workshop showed knowledge, skill, and aptitude about the R software to many faculties, research scholars, and students of the Central University of Jammu and as well as other university scholars across the nation who registered themselves for attending the workshop. Thus, the purpose of this workshop on "Research Methodology Workshop using R Software" was completed.

All faculty members of DTTM, Central University of Jammu namely Dr.Bharti Gupta, Dr.Ranjeet Kumar Raman, Mr.Rahul Thakur ,Mr. Manjeet Singh, Dr. Rabinder Singh and Dr.Swati Samnotra attended the 05 day workshop.