

Report on 7-day virtual PDP on Decoding statistics for data analysis

Date	21 st - 28 th March 2022	
Time:	05:00 PM - 07:00 PM (IST)	
Venue:	Online	
Section:	Not applicable	
Batch:	Not applicable	
Semester:	Not applicable	
Guest/Speaker Name:	Dr. G S Vijaya, Dr. Chaya Bagrecha and Dr. Rupesh Sinha	
Guest/Speaker Designation	Faculty members at CMS Business School	
Guest/Speaker	9902532047/9844733999/9844906169	
Contact No & Email Id:	dr.vijayags@cms.ac.in/dr.chayabagrecha@cms.ac.in/rupesh.sinha@cms.ac.in	
Guest/Speaker Company/ Institute Name:	CMS BS	
Faculty Coordinators Name:	Dr. Madhavi R, Dr. Chaya Bagrecha, Dr. V Y John	
Topic:	7-day virtual PDP on Decoding statistics for data analysis	
Moderator (if any)	None	
No. of Attendees	es 35	
Feedback:		
Brochure: (if any)	Attached at the end	
Revenue Collected: (if any)	<mark>28500</mark>	



1. Introduction:

This *Professional Development Program (PDP)* on 'Decoding Statistics for Data analysis' uncovered such knowledge to serve the learning interests of diverse stakeholders such as academicians, PG students, research scholars, aspiring data scientists, students pursuing data sciences and business analytics, etc. The need to understand statistics as the core fabric of data driven decisions has over taken every aspect of business today with an intent to move from experience-based projections to evidence based predictions. This offers high relevance to the decisions at operational and strategic level. The myriad uses of data and data analysis award the unique value of making statistics a discipline neutral subject acting as a guiding lamp to offer insights to knowledge seekers from any discipline.

This *Professional Development Program* focused on allowing participants to learn statistical concepts from the basic to intermediate level to better understand the usage of statistical software packages and interpretation of output.

2. Venue (Outside/Inside the campus): Zoom Platform

3. Program Objectives:

- To uncover the basic tenets of statistics that aid data analysis
- To explore descriptive and inferential statistics without the use of a statistical software

4. Relevance to PO, Relevance to PEO and PSOs

PO	Program Objective (PO)	
PO1	Foster learning through accumulation of knowledge.	
PO2	Apply knowledge of management theories and practices to solve business problems.	
PO3	Foster analytical and critical thinking abilities for data-based decision making.	
PO4	Ability to develop value based leadership.	
PO5	Ability to understand, analyse and communicate global, economic, legal and ethical aspects of business.	
PO6	Ability to lead self and others in the achievement of organisational goals, contributing effectively to a team environment.	



PO7	Ability to adopt various tools decision making and problem solving.	
PSO	Program Specific Objective (PSO)	
PSO1	Demonstrate effective response to industry challenges by applying managerial tools and techniques for a sustainable society	
PSO2	Appraise the complex specificities of Indian Business to garner global reputation	
PSO3	Develop a holistic thinking solopreneur for a self-sufficient society	

5. Activity Overview:

Detailed contents

Day-1	Calculations of Tests of Normality, Skewness, Kurtosis, Shapiro and Kolmogorov Tests	
Day-2	How to check Multivariate Normality	
Day-3	Interaction between Type I and Type II Error and Power of Test	
Day-4	Calculations of One Sample t Test, Paired Sample, Independent Sample t Test and Chi Square Test	
Day-5	ANOVA and Regression, mathematical similarity	
Day-6	pp plot and qq plot	
Day-7	Maximum likelihood estimate and its relevance in parameters quantification	

6. Guest/Speakers' Profile:



Resource persons:



Dr. G S Vijaya
Professor
CMS Business School
JAIN (Deemed-to-be University)

Dr. G.S. Vijaya is currently working as Professor in Decision Science Area. She has worked in various reputed institutions like Sri Jayachamarajendra College of Engineering, Mysore, Birla Institute of Technology, Mesra, Ranchi, Nitte Meenakshi Institute of Technology, Bangalore and JAIN (Deemed-to-be University). She has worked with Al Yamamah University, Riyadh, Kingdom of Saudi Arabia for six years.

Dr. Vijaya is a PhD Guide in Management, JAIN (Deemed-to-be University) since 2013. She is a Life Member of Indian Society for Technical Education and IAENG International Association of Engineers. She has participated in the MDPs, FDPs, workshops, seminars, Staff Development Programs, reviewed books and written articles. She has presented/published papers at the National and International level including Scopus and Web of Science.



Dr. Chaya Bagrecha Professor CMS Business School JAIN (Deemed-to-be University)

Passion for learning new things and sharing knowledge has led Dr. Chaya Bagrecha, Professor of Finance at CMS Business School, JAIN (Deemed-to-be University) to a conscious decision of opting for teaching as a profession. She comes from a business family, which has helped her in hands-on training in entrepreneurial skills. She has done her MBA from Kuvempu University and secured First rank and two gold medals for the best outgoing student in 1993.

Having done her NET with JRF and SLET, she has come a long way, both in terms of academics and research. She was awarded the doctoral for her research in corporate governance. She is the recognized research guide of JAIN (Deemed-to-be University) and Bangalore University.

She has published more than thirty papers in various journals and presented more than fifty papers in National and International conferences. Her research interests are in the diverse areas of Corporate Governance, Universal Banking, Stock markets, Poverty alleviation, and Entrepreneurship. She has a keen interest in learning new packages and analytical tools in Statistics.





Dr. Rupesh Kumar Sinha Assistant Professor CMS Business School JAIN (Deemed-to-be University)

Dr. Rupesh Kumar Sinha has more than 25 years of experience in Management Education and Software industry and at present, he is faculty at CMS Business School, JAIN (Deemed-to-be University) Bangalore. He is a NASSCOM Licensed Master Trainer and Microsoft Certified Professional in Visual Basic, Windows Architecture. He has designed various courses in Analytics, Operations Management, Supply Chain Management at the level of MBA in the Business School and individual courses like Advanced Excel, Cognos, Tableau, Watson Analytics, SPSS etc. Before joining Business School he worked with Krupanidhi School of Management and was Professor in the area of Analytics.

He worked at the Imperial College, Bangalore as Academic Head for five months, and his role was to give training and developing course on Analytics. He gave training for IBM Analytics courses (IBM Cognos and IBM Watson) in various B-Schools and Engineering colleges. He worked with IFIM Business School, Bangalore for 10 years as HOD of Operations and IT.

7. Summary and Key Learnings of the session:

Introduction to Parametric and Non parametric tests, Descriptive Statistics, Measurement scales and Hypothesis testing One Sample T Test, Paired Sample, Independent Sample T Test, ANOVA & Post Hoc and non-parametric tests, Chi Square Test; Correlation & Regression and Practical sessions

Participant details:

Name	Qualification	Institution	Designation
Da Luka a Ambasa	MD A DLD	CMS BUSINESS SCHOOL JAIN (DEEMED-TO-BE	A CCT DD OEECCOD
		CMS BUSINESS SCHOOL JAIN UNIVERSITY	ASST PROFESSOR Associate Professor
Satyajeet Nanda	PhD	CMS BS	Associate professor
Sudip Das	MBA	UPES	Research Scholar
VINOTH KUMAR V	PHD	CMS B SCHOOL	ASST PROFESSOR
Debamitra Ray	MCom	Jain Deemed to be University	PhD scholar



Ruchi Vohra	M.com, pursuing PhD from Jain University	New Horizon College	Research Scholar/ Assistant Professor
M.com, pursuing PhD at Jain University		New Horizon College, Marathahalli	Assistant professor / Research Scholar
Achal Dilip Kumar	M.Phil	Indian Army	Brigadier
Dr. J. Gayathri	M.Com, M. B.A., I.C.W.A (Inter), Ph.D	Bharathidasan University	Associate Professor
Meghana S	MBA	Ballari Business College	Assistant professor
N JAYAMMA	MBA NET	Govt First Grade college Sindhanoor	Assistant Professor
Manohar Babu G	MBA (Pursuing PhD)	Shree Medha Degree College Ballari	Assistant Professor
Reena R	MBA (Pursuing PhD)	SGT Degree College Ballari	Assistant Professor
Manita D Shah	Ph.D	Jain (Deemed-to-be University)	Professor
M.GOVINDARAJ	BBA., LL.B., MBA., Ph.D.,	CMS BUSINESS SCHOOL	ASSOCIATE PROFESSOR
Seema Sambargi	M.Sc MBA PhD	CMS-JU	Professor
Sanjana Malhotra	PhD Psychology	Jain University	Previously was a Research Fellow in Dept. of Psychology Jain University
Sirisha T	MBA	ArSquare development Pvt Ltd	Research and Marketing head
Sowjanya Rajesh	MBA Marketing	Harnahalli Ramaswamy institute of higher education	Assistant professor
Meghana MD	MBA marketing	Cms jain university	
Deepa K Damodaran	Ph D	JAIN (Deemed to be University), Kochi	Assoc. Professor
Saraswathi Satish	MA, MPhil	RV Institute of legal studies	Assistant professor
Surjyadeb Goswami	PhD Scholar	CMS Business School	PhD Scholar
DEEPA BISWAL	PhD (Continuing)	UTKAL UNIVERSITY	PhD Research Scholar



K KUMAR	MBA	Bangalore university	PhD scholar
SHALINI R	PhD	Jain Deemed to be University	Associate Professor
Jitesh Chandra Das	MBA	Global Academy Of Technology	PHD Scholar
CHAITRA G.R	MBA, (Pursuing PhD at Jain)	JAIN (DEEMED-TO-BE- UNIVERSITY)	RESEARCH SCHOLAR
MONOO JOHN	MBA MHRM MPHIL PhD CBMA	FACULTY OF MANAGEMENT STUDIES CMS BUSINESS SCHOOL	ASSOCIATE PROFESSOR
Sona Kumari H R	MA (Economics)	Bangalore University	No
Indira A	M.B.A.	Happy Valley Business School	Associate Professor
Dr. SIREESHA NANDURI	Ph.D	JAIN	ASSISTANT PROFESSOR
Sneha Burman	PhD	Jain University	Assistant professor of Psychology
Shurlly Tiwari		PhD Scholar	PhD Scholar

8. Details of Winners (if applicable): - Not applicable

9. Details of the judges (if applicable): - Not applicable

10. Attendance records: Participants list

11. Participants' Feedback, Feedback Analysis and Attainment Calculation:



					Technology oriented
					learning from
				The	the comforts of
	The learning			communication	our
	outcomes of the	The sessions of	The resource	from the FDP	home/office
	sessions were	the FDP were	person was	team was timely	was a welcome
	achieved	useful	effective	and helpful	method
Strongly agree	82	88	87	88	91
Agree	32	27	29	28	24
Neutral	3	2	1	1	2
Disagree	0	0	0	0	0
Strongly					
disagree	0	0	0	0	0

12. Proposals for the Event/Programme:

Date: 19/11/2021

For Director's kind approval

Dear Sir,

Sub: Application for approval of online/virtual 7-day virtual PDP on Decoding statistics for data analysis. We are proposing to schedule a FDP on the above topic "scheduled from 21st to 28th March 2022.

The details are as follows:

Title of the Conclave: 7-day virtual PDP on Decoding statistics for data analysis

Duration: 7 days **Resource persons:**

Dr. G S Vijaya, Dr. Chaya Bagrecha and Dr. Rupesh Sinha

Expected participants: 30 faculty members

Kindly approve the same.

Kind Regards

Faculty Coordinator Dean Director

Approval Authority Approval Authority

Signature Signature Signature



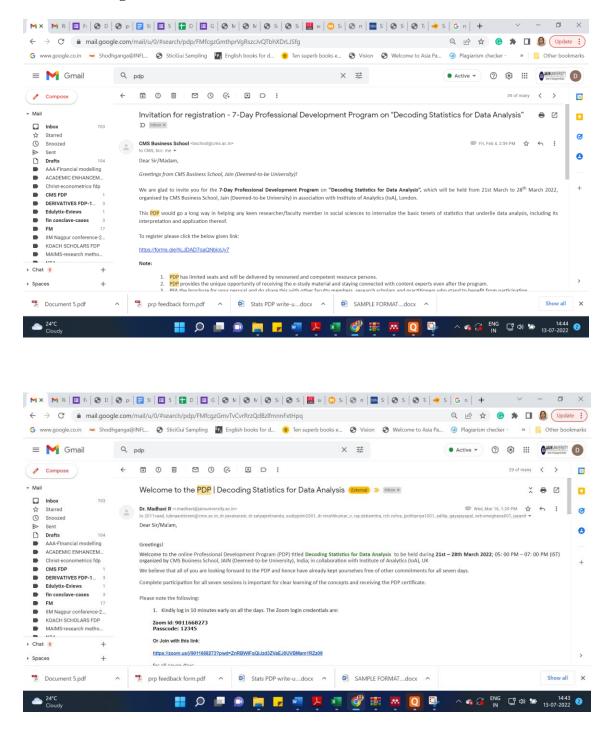
13. Minutes of Meetings:

Meeting Title	Initiation meeting on the Proposed PDP on Decoding		
	statistics for data analysis		
Date of Meeting	19/11/2021		
Meeting Venue	ZOOM, Online Platform		
	,		
Meeting Agenda	To discuss the details & po	ossibility of the FDP	
In Attendance	Name	Title/Department/Organization	
1	Dr. Madhavi R	Associate Professor	
2	Dr Chaya Bagrecha	Professor	
Key Meeting Outcomes			
	A better understanding of	the feasibility and content of this	
	proposed FDP (Seven days	program) The dates proposed were	
	accepted (March 2022). Through Online Mode.		
	The requirements of the Resource Persons were noted. Dr.		
	Madhavi R, Dr. Chaya Bagrecha and Dr. John Valluri will be		
	the coordinators for this FDP		
Action Plans, if any (along	ng with the First Person Responsible)		
1.		rochure prepared. Dr. John Valluri	
2	will take care of the registrations and communications.		
2.	Dr. Madhavi will connect with the other associated members		
	to discuss the details of the FDP and will get the certificates designed		
3.	0.000		
	Discussion with resource persons Dr. G S Vijaya, Dr. Chaya		
	Bagrecha and Dr. Rupesh Sinha		
	about topics to be covered		

14. Budget: - Not applicable as the resource persons are inhouse faculty members.



15. Trailing Emails/communications:



16. Any other related details: - No



17. Pictures for the Event:

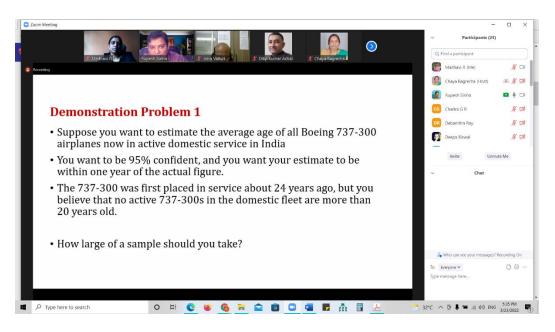


Figure 1: 7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022

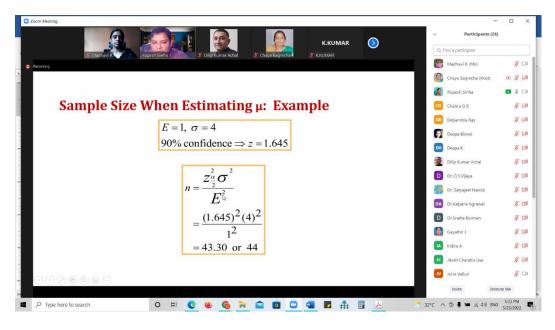


Figure 2 7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022



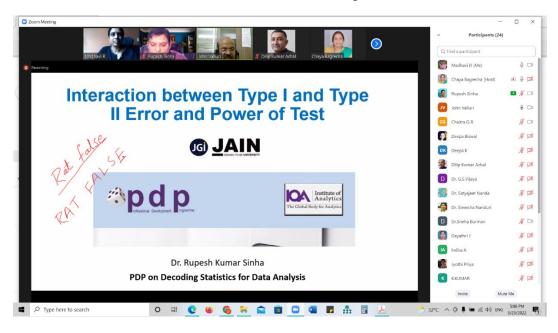


Figure 3 7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022

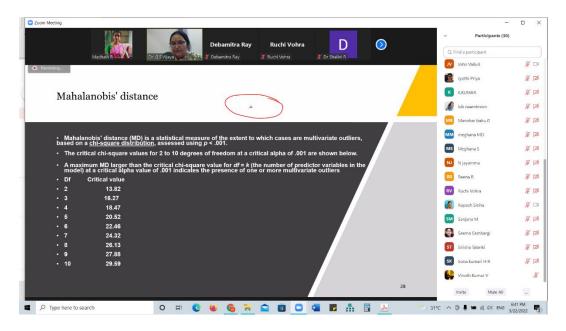


Figure 4 7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022



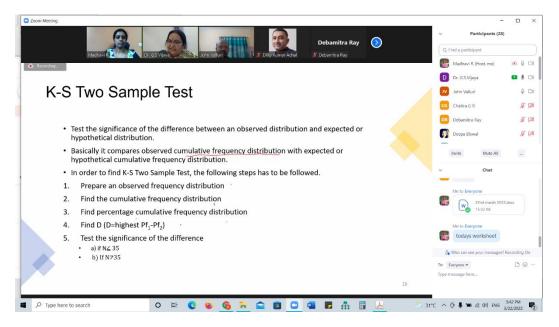


Figure 5-7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022

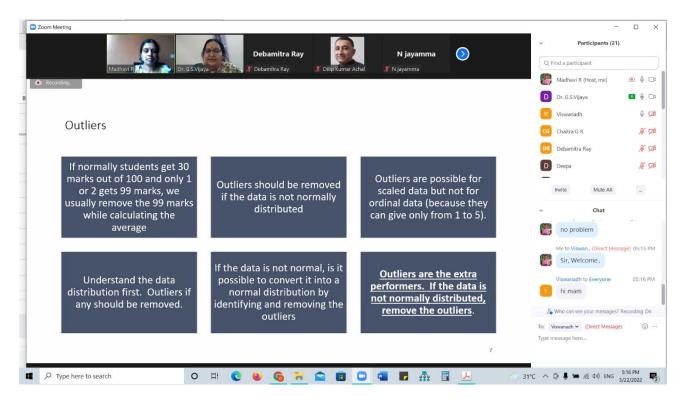


Figure 6-7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022



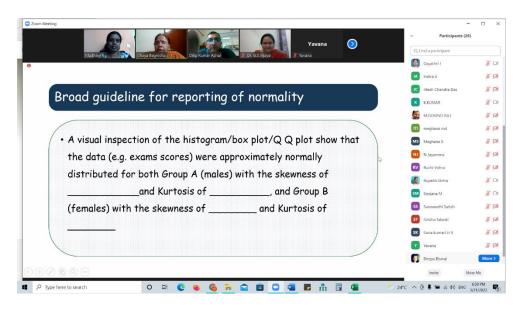


Figure 7-7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022

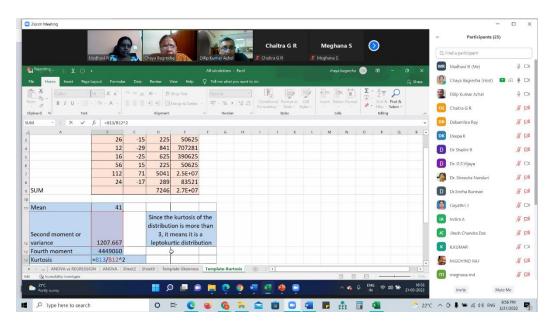


Figure 8 -7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022



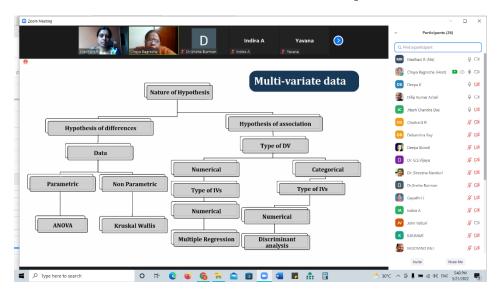


Figure 9-7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022

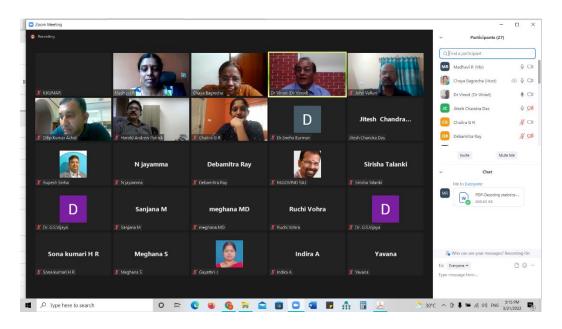


Figure 10-7-day virtual PDP on Decoding statistics for data analysis -21st to 28th March 2022



These are the Zoom recordings for all the days of the PDP:

Day 1

Date: Mar 21, 2022 04:50 PM India

https://zoom.us/rec/share/p9UH5mSAsP2jBFOxh0IA2kPjyMfuPL JfDRJ-Uf88JvBF4809 ETP-

YdY3XPdXUl.wYP49qTol0EgTCwz

Passcode: h@G7&3yZ

Day 2

Date: Mar 22, 2022 04:50 PM India

https://zoom.us/rec/share/i_Laanmi8Z2cGil_s1Y_4cbXuai07eDjBnOn9zDPL62GlzL1YALCtl8a-

DJOKg.SqfpeJbe98Ls5x8O Passcode: cZ04Hp%1

Day 3

Date: Mar 23, 2022 04:50 PM India

https://zoom.us/rec/share/G7dCFNouloYZTci4euUennhvG6Mb79yOap2FJS7U00BA9OA2DgQ2q

QgMQ7Mw8jW-.5sHUbRSibU3LzAoa

Passcode: u@Cx3*HU

Day 4

Date: Mar 24, 2022 04:50 PM India https://zoom.us/rec/share/F7DnVhm_O-

MgQK2uu4tGVe3a4OPxgIBwADtll4G4cSzYO0J4LZtR7YlTgXYwuGW8.TlZqEhh1A6nhxKH9

Passcode: 3%d4y0a#

Day 5

Date: Mar 25, 2022 04:50 PM India

https://zoom.us/rec/share/v3cw9NJwgLN77CgBXKTuukXIP9Fox3Pv9JkTFlBihZ6Iyv_s0MIKIXdn

mnppuwVK.fqdLW0aVVMeN_h4n

Passcode: YH@26Ytt

Day 6

Date: Mar 26, 2022 04:50 PM India

https://zoom.us/rec/share/lezmjErkJ5NByiDVA1s6TXXb0bcD47W73D1VKOFdJHx-

sYCqOQzdbUJdlN-vwV5G.s9UFqGiRaQ3Bhm7j

Passcode: tpS9K6&0

Day 7

Date: Mar 28, 2022 04:50 PM India

https://zoom.us/rec/share/YRMwJuWzAPx6QvwxqtswHpG7UUCQqBcsqJM34JiY3s2cmYobc5NK

gj-LBMqJFE11.XZZX8IJXTjRYYXw8

Passcode: 5\$WQ5JW

Brochure Screenshot











7-Day Virtual Professional Development Program on

Decoding Statistics for Data Analysis

organised by

CMS Business School, JAIN (Deemed-to-be University)

in collaboration with

Institute of Analytics (UK)

21st- 28th March 2022 | 05:00 PM - 07:00 PM (IST)

bschool.cms.ac.in

JAIN (Deemed-to-be University)

JAIN (Desmed-to-be University) is a comprehensive and student-focused University that works towards excellence in quality education, research and entrepreneurial development. JAIN (Desmed-to-be Whotersity) has been awarded the Grade Authormy status by the University Crarts Commission (USC) and A ** Crade by the National Assessment and Accreditation Council (NAC). Karnstalas Siste Universities Rating Framework (KSURF), Coverment of Karmstalas has severated JAIN as a \$5 Start Institution in the category of **COUNCIL (NAC)** Karnstalas Siste Universities Rating Framework (RSURF), Coverment of Karmstalas has severated JAIN as a \$5 Start Institution of the Category of **COUNCIL (NAC)** Karnstalas Siste Universities Rating Framework (RSURF), JAIN (Desmed-to-be University) and submitted partner for **Starty in India** (SII) program. It is a member of the prestigious Jain Group of Institution, headquartered in Bengalizur, India**.

CMS Business School, JAIN (Deemed-to-be University)

CMS Business School, an integral part of JAIN (Described-to-Get Drilversity) is India's leading business school with an international perspective. CMS Business School is a place where ideas are born, theories are debated and business is imbibled. Much more than a source of knowledge, it is a catalyst that makes a difference to the career and the personal progress of its students. CMS Business School has been rainked 41 th all India and 18th in South Zone by 'Outlook'. ICARE MBA Rainkings - 2019' Research Survey. CMS Business School was placed in the rank band 76-10for the year 2019 from National Institute of Rainking Framework, Ministry of IRID, Government of India and It has also been awarded "A" - 'Grade, in Kamataka, by CRISL I.The MBA program has a strong foundation in academic research; It is designed to tackle the real world issues faced by international business community brodge.

Institute of Analytics (IoA):

The institute of Analytics (IoA) is the Professional Body for Analytics and Data Science professionals in the UK and International. IoA is a not-formation of the Professional in the UK and International LoA is a not-formation of the Professional Control of the Professional Control of Professio

About the PDP

In today's world of data driven decision-making, many softwares such as SPSS, AMOS, R, Stata, Eviews, Gretl, etc. help one simplify complex statistical analysis, apart from saving time and effort. However, they often leave the curious mind with the following questions:

- wever, mey often reave the curious mino with the following que What are the assumptions behind this test? What is the formula for the test? What is the statistical logic behind this test? And many more

The robustional Development Proprym focuses on allowing participants to learn statistical concepts in Proprim focuses on allowing participants for the super of statistics of concepts of the proprime the robustion and the super of statistics of content in the proprime the super of statistics of content in the proprime the robustion of content in the proprime the robustion and spiciations. Participants are encouraged to from ghet Prive data and queries for discussion and solutions. The online sessions will be delivered on Zoom (secure) platform. To ensure focused learning and promote interactions, this PDP will careful to the first 25 registrations.

The event also seeks a closed-door policy. Such a policy allows only the registered participants and the organisers to be a part of it. This ensures the flow of learning smoothly and allows all the participants to engage in discussions without interruptions.

Dates: 21"- 28" March 2022

Duration: 14 Hours

_	otalioa contonto	
Day-1 Calculations of Tests of Normality, Skewness, Kurtosis, Sha Kolmogorov Tests		Calculations of Tests of Normality, Skewness, Kurtosis, Shapiro and Kolmogorov Tests
	Day-2	How to check Multivariate Normality
	Day-3	Interaction between Type I and Type II Error and Power of Test
Day-4 Calculations of One Sample t Test, Paired Sample, Independer Test and Chi Square Test		Calculations of One Sample t Test, Paired Sample, Independent Sample t Test and Chi Square Test
	Day-5	ANOVA and Regression, mathematical similarity
Day-6 pp plot and qq plot		
	Day-7	Maximum likelihood estimate and its relevance in parameters

Learning outcome:
First hand practical exposure to descriptive and inferential statistical tools for data analysis

This PDP will be of interest to the beginners and intermediate researchers in exploring descriptive and inferential statistical tools for data analysis. It will also help them in the interpretation for each statistical tool for research paper writing and thesis writing.



Professor CMS Business School JAIN (Deemed-to-be University)

Dr. G.S. Vijaya is currently working as Professor in Decision Science Area. She has worked in various reputed institutions like Srl Jayachamarajandra College of Engineering, Mysore, Birla Institute of Technology, Mengar, Ranchi, Nitte Mensakhi Institute Ortenhology, Bengalce and JANI (Deembach be University). She has worked with Al Yamamah University, Riyadh, Kingdom of Saudi Arabia for six years.

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Dr. Chaya Bagrecha Professor CMS Business School JAIN (Deemed-to-be University)

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She has published more than thirty papers invairus journals and presented more than they papers in National and International conference in terresearch interests are presented more than 60 papers in the diverse are presented more than 60 papers in the composite of the diverse are an extensional conference in the diverse are presented for the diverse are and of the diverse are an extensional property all evidences. The diverse are presented for the diverse are and property all evidences and property all evidences are property and pr



Dr. Rupesh Kumar Sinha

Dr. Rupesh Kumar Sinha has more than 25 years of experience in Management Education and Software industry and at present, he is faculty at CMS Business School, JAIN (Deemed-to-be University) Bangadion: He is a NASSCOM Licensed Master Trainer and Microsoft Certified Professional in Visual Basic, Windows Architecture. He has designed various courses in Analytics, Operations Management, Supply Chain Management at the review ORIA has the Substances School and refuser and the review of MSA in the Substances School and Work of the Software Council and the Council and Co

He worked at the Imperial College, Bangalore as Academic Head for five months, and his role was to give training and developing course on Analytics. He gave training for IBM Analytics courses (IBM Cognos and IBM Watson) in various B-Schools and Engineering colleges. He worked with IFIM Business School, Bangalore for 1 years as HOD of Operations and IT.



Payment Procedure
Registration Fee must be paid by
Demand Draft/Digital Payments

Dr. Chenraj Roychand Chancellor, JAIN (Deemed-to-be University)

Col (Hony). Dr. N. Sundararajan Pro Chancellor, JAIN (Deemed-to-be University)

Professor (Dr.) Raj Singh Vice-Chancellor, JAIN (Deemed-to-be University)

Dr. Easwaran lyerPro Vice-Chancellor, JAIN (Deemed-to-be University)

Advisory Board

Dr. Dinesh Nilkant
Director, CMS Business School, JAIN (Deemed-to-be University)

Dr. Harold Andrew Patrick
Professor & Dean - Academics, CMS Business School, JAIN (Deemed-to-be University)

Dr. Vinod Kumar Murti Country Head - India, Institute of Analytics (IOA), UK

Faculty Development Program Cell

Dr. Madhavi R
Associate Professor
CMS Business School
JAIN (Deemed-to-be University)
+91 9986939254
r.madhavi@jainuniversity.ac.in

*e-certificates will be provided to all the registered participants

Registration link:https://forms.gle/hLJDAD7qaQNbioUy7

Joining link shall be provided after registration



CMS Business School, JANN (Deemed-to-be University)
No.17, Sheshadd Road, Gardhi Nagar, Bengaluru -560009.
P: +91 90 4684 0400 (E bachool@cms.ac.In
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