समस्त सहायलहरूया के अवलाकुनाथ ।
हस्ताक्षर 13/6/18

Faculty Development Programme on Relevance of Statistics in Research Methodology

ABOUT ABV-IIITM GWALIOR

Atal Bihari Vajpayee - Indian Institute of Information Technology & Management Gwalior (ABV-IIITM Gwalior) is India's premier Institute incepted by Ministry of Human Resource and Development (MHRD), Government of India in the year 1997 as a center of excellence in the field of Information Technology and Management. It is foremost Institute providing superior quality higher education in the above areas and is located in the city of Gwalior in the northern part of the state of Madhya Pradesh, India. The Institute activities are aimed at developing a culture of inquiry and research through highly competitive academic environment, and close interaction between Institute and corporate world. Vibrant links with the industry are also active. Institute is ISO 9001:2008 and NAAC 'A' certified. It has also been declared as Institute of National Importance by the Government of India. Institute has secured 22nd Rank by NIRF survey 2016 among Management Institutes across the country.

कार्या. संदी /आ. क.121.
दिनांक 13/06/2018

ABOUT THE FDP

Statistics are such phenomena that every academician or researcher wishes to learn. It has been observed that researchers find difficult to conduct an in-depth analysis in their areas of specialization without a sound knowledge of the scientific process of conducting research. Researchers may consult many books and articles but their inherent inquisitiveness will remain unfulfilled if they lack patience in devoting time to understand Statistics. They must remember that little knowledge is dangerous and devoting time and energy to understand the essence of statistics before executing any type of research is indispensible. Statistics acts as an enabling tool for conducting research. For conducting most of the researches, sampling is the only scientific, viable and pragmatic approach and alternative. There is a need to estimate population characteristics (parameter) from sample statistics. Statistics act upon as a scientific facilitator, for generalizing a result obtained from sample, for population. This workshop provides an opportunity to understand the crux of research methodology in the light of inherent use of statistics in conduction of any type of research. Further, the instructors will be using a step-by-step approach to discuss the applications of MS Excel, Minitab, and SPSS in statistical analysis, thus familiarizing participants with the software programs used in the research world. The focus on interpretation rather than computation develops competencies that will aid participants in their future careers as researchers.

Faculty Development Programme
On
Relevance of Statistics in Research Methodology
(Jul, 14-20, 2018)

APPLICATION FORM

1. **Name:** ……………………………………… ……...

2. **Sex:** Male / Female (please tick)   **Age:**

3. **Category** Faculty / Industry / Full Time Research Scholar

4. **Accommodation:** Required / Not Required

5. **Designation:** …………………………………….

6. **Name of the employer:** …………………… …..

7. **Official mailing address:** …………..……………
   ………………………………………………………..

8. **Telephone No:** …………..………………………..

9. **Mobile No:** …………………………………………

10. **Email:** ……………………...…………………….

11. **Academic Qualifications:** ………..…………….

12. **Specialization:** …………………………............

13. **Experience:** ……………………………………..

14. **Nomination Fee Details:**
    UID Number: & **Date:**

    Name of Bank and Branch: **Amount:**

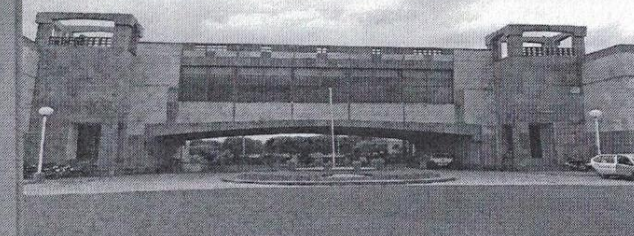   Signature of the Applicant

ABV-Indian Institute of Information Technology and Management, Gwalior

FACULTY DEVELOPMENT PROGRAMME
On
Relevance of Statistics in Research Methodology
(RSRM-2018)
(Jul 14-20, 2018)

Last date for registration:
05 July, 2018

www.iiitm.ac.in

Faculty Development Programme on Relevance of Statistics in Research Methodology

OBJECTIVE:

- To help participants understanding the basics of research through statistics
- To help participants understanding use of statistics in conducting research
- To sensitize participants in developing their understanding to deal with some very basic concepts like hypotheses framing, testing and theoretical model development
- To provide conceptual facilitation in understanding the output generated by statistical softwares
- To provide application oriented knowledge on Multivariate statistical Techniques

FDPs in IIITMG (Related to Data Analysis)

Title of Faculty Development Programme	Dates
Faculty Development Programme on Econometric Methods in Research (EMR'11)	15-17 Apr'11
Faculty Development Programme on Application of Econometrics for Management Research (AEMR'12)	16-22 Jul'12
Faculty Development Programme on Advanced Data Analysis for Management Research (ADAMR'12)	23-29 Jul'12
Faculty Development Programme on Statistics: An Enabling Tool for Understanding Research Methodology (SETURM'12)	27-29 Nov'12
2nd FDP on Multivariate Data Analysis for Management Research (MDAMR'13)	14-20 Jun'13
3rd FDP ON Application of Econometrics for Management Research (AEMR'13)	21-27 Jun'13
Multivariate and ADVANCED Data Analysis in Marketing (MADAM-2013)	27 Sept– 3 Oct'13
Multivariate and ADVANCED Data Analysis in Marketing (MADAM-2015)	14-20 Mar'15
Statistics an Enabling Tool for Understanding Research Methodology (SETURM'16)	18-22 May'16
Multivariate and Advanced Data Analysis for Management & Social Science Research in Marketing	25-30 Jul'16
Statistics and Research Methodology: An Exploration with a Special Focus on Multivariate Statistical Techniques	15-21, Feb'18
Advanced Data Analytics in Marketing and Finance Research- ADAMFR-2018	20-25 Apr'18

FOR WHOM:

The participants to the programs could be the faculty members, research scholars and project leaders who have a strong orientation towards research. Managers in charge of strategic marketing planning, product management, promotion and advertising, and marketing research in companies marketing consumer or industrial products or services could also participate

CONTENTS:

Relevance of Statistics in Research Methodology, Descriptive Statistics-I, Descriptive Statistics-II, Probability, Discrete Probability Distribution, Continuous Probability Distribution, Sampling and Sampling Distribution, Statistical Inference : Estimation for Single Population, Statistical Inference : Hypothesis Testing for Single Populations, Statistical Inference : Hypothesis Testing for Two Populations, Analysis of Variance and Experimental Design- I, Analysis of Variance and Experimental Design- II, Hypothesis Testing for Categorical Data (Chi Square Test), Simple Linear Regression Analysis, Multiple Regression Analysis, Time Series Forecasting and Index Numbers, Non Parametric Statistics, Statistical Decision Theory, Introduction to Research Design, Measurement and Scaling / Questionnaire Design, Exploratory Factor Analysis, Cluster Analysis, Confirmatory Factor Analysis and SEM-I, Confirmatory Factor Analysis and SEM-II

RESOURCE PERSONS

- Prof. S.G. Deshmukh, Director, ABV-IIITM Gwalior.
- Dr. Naval Bajpai, Faculty, ABV-IIITM Gwalior.
- Dr. Vishal Vyas, Faculty, ABV-IIITM Gwalior.
- Dr. Gaurav Agrawal, Faculty, ABV-IIITM Gwalior.

PEDAGOGY:

The programme delivery will have a mix of lectures, demonstrations, interactive sessions, assignments and hands-on training on the latest version of IBM- SPSS and other important statistical soft-wares. Participants are requested to bring their laptop during training for live exercises would be conducted. Study materials will be provided as part of the programme. Participants will be provided with the relevant industry example data sets for the purpose of analysts in order to facilitate the experiential learning.

REGISTRATION PROCESS:

There are only 30 seats vacant for participating in the discussed programme. Interested persons are required to send their nomination through Registration Form in prescribed format at iiitmfdp@gmail.com on and before **05 July, 2018.** Shortlisted participant will be getting information by the organizing Committee. Thereafter, shortlisted participant are required to deposit/ transfer fee in the mentioned accounts only through online Bank transfer.

PARTICIPANTS FEE:

- **Faculty Members (with accommodation)** : Rs.14,000/-
- **Faculty Members (without accommodation)** : Rs.10,000/-
- **Full Time Research Scholar (with accom)** : Rs.11,000/-
- **Full Time Researcher Scholar (without accom)** : Rs.8,000/-
- **Participants from Industry (with accom)** : Rs.20,000/-

Fee can be paid only through Bank transfer to Bank of India ABV-IIITM, Gwalior. Details are as follows:

- Name of the Account: ABV-IIITM, FDP Account.
- Account no. 945210110009380
- IFSCCode: BKID0009462
- Bank: MICR Code 474013003

The participation fee includes Lodging, Working Lunch/ Dinner and requisite course material. Accommodation on twin sharing basis will be provided in the Institute campus.

GLIMPS@iiitmg:

Coordinator:

Dr. Naval Bajpai
nbajpai@iiitm.ac.in
Tel: +751-2449819

For Registration, Boarding and Lodging kindly Contact:
Dr. Jai Prakash Sharma
Administrative Coordinator (iiitmfdp@gmail.com)
Tel-+751-2449801 (M) 09329755313

Schedule for Faculty Development Programme on

Relevance of Statistics in Research Methodology

(Jul 14-20, 2018)

Coordinator: Dr. Naval Bajpai

Date	10:00 AM- 11:30 AM Session -1	11:30—11:45 AM	11:45 AM- 1:15 PM Session -2	1:15-2:15 PM	2:15 PM-3:45 PM Session -3	3:45-4:00 PM	4:15- 5:30 PM Session -4
14/07/18	Registration/ Inauguration & Overview	T E A B R E A K	Relevance of Statistics in Research Methodology: An Introduction *(Porf. SG Deshmukh)*	L U N C H	Descriptive Statistics-I *(Dr. Vishal Vyas)*	T E A B R E A K	Descriptive Statistics-II *(Dr. Naval Bajpai)*
15/07/18	Probability *(Dr. Naval Bajpai)*		Discrete Probability Distribution *(Dr. Naval Bajpai)*		Continuous Probability Distribution *(Dr. Naval Bajpai)*		Sampling and Sampling Distribution *(Dr. Vishal Vyas)*
16/07/18	Statistical Inference : Estimation for Single Population *(Dr. Vishal Vyas)*		Statistical Inference : Hypothesis Testing for Single Populations *(Dr. Naval Bajpai)*		Statistical Inference : Hypothesis Testing for Two Populations *(Dr. Vishal Vyas)*		Analysis of Variance and Experimental Design- I *(Dr. Vishal Vyas)*
17/07/18	Analysis of Variance and Experimental Design- II *(Dr. Vishal Vyas)*		Hypothesis Testing for Categorical Data (Chi Square Test) *(Dr. Naval Bajpai)*		Library & Lab Visit		Library & Lab Visit
18/07/18	Simple Linear Regression Analysis *(Dr. Naval Bajpai)*		Multiple Regression Analysis *(Dr. Naval Bajpai)*		Time Series Forecasting and Index Numbers *(Dr. Vishal Vyas)*		Non Parametric Statistics *(Dr. Vishal Vyas)*
19/07/18	Statistical Decision Theory *(Dr. Naval Bajpai)*		Introduction to Research Design *(Dr. Gaurav Agrawal)*		Measurement and Scaling / Questionnaire Design *(Dr. Gaurav Agrawal)*		Exploratory Factor Analysis *(Dr. Vishal Vyas)*
20/07/18	Cluster Analysis *(Dr. Vishal Vyas)*		Confirmatory Factor Analysis and SEM-I *(Dr. Naval Bajpai)*		Confirmatory Factor Analysis and SEM-II *(Dr. Naval Bajpai)*		Valedictory

Venue: MDP Center, ABV-IIITM Gwalior