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**Short Term Course**  
**on**  
**Educational Research & Analytics**  
**(26<sup>th</sup> September – 02<sup>nd</sup> October, 2016)**

**Objective:**

This workshop is primarily targeted at Faculty and Research Scholars, either doing or planning to do research in various disciplines. The orientation of this course is towards theoretical, applied, computational as well as field data-based research. This would be a platform for academicians and researchers in science, engineering, management for networking with specialists and practitioners. The primary objective of the programme is to enable the participants to define a research problem, develop suitable methodology for addressing the problem and learn about various tools and techniques to analyze and interpret the data both quantitatively as well as qualitatively.

**Expected Outcome:**

1. Both the students and faculty would be motivated to pursue research.
2. It would enhance their knowledge and skill in applied research methodology.
3. As a student or Professional, statistics would enable them to evaluate, infer, and understand their product, design, situation, service, or a treatment option.
4. They would be exposed to various techniques of large data handling and analysis through various Software like, SPSS & AMOS.
5. Learning about the errors in statistics would make it easier to interpret statistical literature, research article, and the claims made on the basis of statistics.

**Content:**

1. Why should we do research?
2. What is Research and what area its implications?
3. How to conduct a systematic literature review?
4. Use of different database & software in literature review.

5. How to identify a good research problem?
6. How to formulate good research objectives and hypotheses?
7. Population, Sample & Sampling Techniques.
8. Different Research Methods:
  - i) Experimental, ii) Non-experimental, & iii) Quasi-Experimental
9. Introduction to different Research Designs
10. Qualitative Research.
11. Methods & Tools of Research.
12. Common Errors and Biases when using statistics
13. Data Analyses:
  - a) Descriptive : Introduction to statistics
  - b) Inferential: Statistical Techniques
  - c) Computer Data Analysis- MS Excel, SPSS, AMOS
14. Hands on experience in Multivariate Analysis, Factor Analysis, Correlation Analysis, Reliability Analysis, Structural Equation Modeling.
15. How to prepare a good Research Proposal in Educational Research.
16. Educational Assessment & Evaluation.
  - a) Summative, Formative, Diagnostic.
  - b) How to construct a good Test?
  - c) Interpretation of Test results.
17. Action Research in Education

**Method:**

1. Lecture-cum-demonstration
2. Group discussion.
3. Face-to-face Interaction

#### 4. Hands on experience

**Target Participants:** Academicians, Researchers, Data Analysts, Administrators, Executives, R & D Professionals.

Maximum No. of AICTE College Teachers= 30  
Sponsored Participants=20, Total seat= **50**

**Minimum Qualification:** Graduation/ Post- graduation

**Course Fee:** Rs. 20,000 /-for Sponsored Candidates  
Nil for AICTE College Teachers

**Accommodation:** Accommodation will be arranged at one of the IIT Kharagpur Guest House/s. Sponsored participants will have to bear their own expenses.

**Certificate:** The participants will be provided certificates on successful completion of the programme.

#### How to Apply?

Interested participants can fill –up the application form available on IIT Kharagpur Website: apply and send the hard copy (along with the Demand Draft for Sponsored participants) in favour of the “ CEP IIT Kharagpur” payable at Kharagpur, to the coordinator by Speed post.

#### Important Dates:

Last date for receiving Application (along with the DD): **23/09/2016**  
Final Intimation to Participants latest by: **24/09/2016**  
Arrival of Participants at IIT Kharagpur: **25/09/2016**  
Completion of the Course: **02/10/2016**

#### About IIT Kharagpur

Situated about 120 km west of Calcutta, Kharagpur can be reached in about 2.5 hrs from the Howrah railway station of Calcutta. Kharagpur is also connected by direct train services to most major cities of the country. The Institute is about 10 minutes drive (5 km) from the Kharagpur railway station. Private taxi, auto-rickshaw or cycle rickshaw can be hired to reach the Institute. The Centre for Educational Technology is located in the Takshashila building of the Institute.

*Address for Correspondence*

**Dr. Atasi Mohanty, Coordinator**

Center for Educational Technology

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**Application Form**  
Short Term Course on

**Educational Research & Analytics**  
(26<sup>th</sup> Sept. to 02<sup>nd</sup> Oct., 2016)

|  |  |
|--|--|
| 1. Name :                                |  |
| 2. Gender : Male/ Female :               |  |
| 3. Highest academic qualification :      |  |
| 4. Designation :                         |  |
| 5. Name of the Institute / Organization: |  |
| 6. Address :                             |  |
| 7. Phone No. :                           |  |
| 8. Mobile :                              |  |
| 9. E-mail :                              |  |
| 10. DD No. :                             |  |
| 11. Date of Issue :                      |  |
| 12. Issuing Bank :                       |  |
| 13. Accommodation Details:               |  |
| Travel Details :                         |  |
| 14. Date of Arrival :                    |  |
| 15. Arrival Time:                        |  |
| 16. Date of Departure :                  |  |
| 17. Departure Time :                     |  |

I agree to the Terms & Conditions which is given here and I declare that the above information is correct to the best of my knowledge and belief.

Date:

Signature of Applicant

