

## INTRODUCTION TO COURSE

One week short term course on "STATISTICAL METHODS IN RESEARCH METHODOLOGY" shall be conducted from 4<sup>th</sup> to 8<sup>th</sup> June, 2018 in TEQIP Cell at Jawaharlal Nehru Government Engineering College, Sundernagar (HP) and organized by Punjab Engineering College (Deemed to be University) Chandigarh under TEQIP III. The course is designed to cater to the needs of teachers and research scholars from engineering colleges and practicing engineers from industries.

Developments in Science & Technology continue at an ever increasing pace in the field of manufacturing science, lean manufacturing, JIT Manufacturing, Nano-technology, Design of Thermal Systems etc.

Keeping in perspective the need for original quality research and utilizing modern statistical tools for handling research data in most efficient manner the proposed course aims to provide the resources and know-how for the benefit of the students/faculty pursuing research. The course will not only deal with the basic concepts but also focus on the application of research related problems which the scholars confront during their research work.

This course is designed to impart knowledge on Research Methodology in the context of qualitative and quantitative methods along with training in Statistical packages across the various fields of Engineering and Social Sciences. The course shall enable the researchers to formulate research design, developing conceptual framework, conducting field work and collection of data (Qualitative and Quantitative methods), data processing and management in SPSS, Statistical techniques and interpretation of statistical output, preparation of interview schedule and questionnaires. Participants shall also be imparted knowledge on report writing and submitting project proposals.

The major thrust of the Short Term Course will be on current trends in the Statistical Methods in Research Methodology and shall include the following topics:

- Parametric and Non Parametric Testing
- Regression Analysis
- Design of Experiments & Taguchi Methodology
- Inferential Statistics
- Optimization Techniques
- Introduction of MINITAB/SPSS Software/Design Expert Lab work
- Error Analysis in Experiments
- Research report and Project report preparation

## COURSE FEE

The course fee shall be Rs. 3000/- for sponsored teachers from engineering colleges and scientists from Govt. Organizations. Faculty from JNGEC Sundernagar is exempted from course fee. The course fee shall be Rs. 1500/- for student Research Scholars

Private and Public Sector Industries are welcome to depute their Engineers, Managers, Executives to participate in this course. The sponsoring industries are required to pay a Registration fee of Rs. 5000/- per participant. The course fee of one candidate may be waived off on the sponsorship of Rs. 10,000/- from the industry. The participants will have to make their own arrangements to meet the travel and lodging expenses.

The applications from the candidates should reach the course coordinator by 30<sup>th</sup> April, 2018 duly sponsored by the Head of the Institution/Department. The candidates should have a B.E./B.Tech. in Civil / Mechanical / Electrical / Production / Electronics / Computer Science / Materials & Metallurgical Engineering. However, the candidates with M.E./M.Tech./M.Phil. Degree shall be given preference.

## REGISTRATION FORM

### SHORT TERM COURSE ON

### STATISTICAL METHODS IN RESEARCH METHODOLOGY (Under TEQIP III)

4<sup>th</sup> to 8<sup>th</sup> June, 2018

Registration form should contain the following information

Name \_\_\_\_\_  
Designation \_\_\_\_\_  
Department \_\_\_\_\_  
Institution/Organization \_\_\_\_\_  
Official Address \_\_\_\_\_

Email \_\_\_\_\_ Fax No. \_\_\_\_\_  
Tel. No. \_\_\_\_\_ (O) \_\_\_\_\_ (R)  
Mobile \_\_\_\_\_

Educational Qualifications (Starting from B.E./B.Tech.)

Degree	Branch	Specialization	Year	% Marks / CPI

Experience in years \_\_\_\_\_  
Hostel accommodation required Yes/No  
Payment Details  
Demand Draft No. \_\_\_\_\_ dated \_\_\_\_\_  
Amount in Rs \_\_\_\_\_ Drawn at \_\_\_\_\_

Whether Coll./Instt. AICTE approved \_\_\_\_\_  
Whether Coll./ Instt. is Govt. funded / Aided / Self Financed

Date: \_\_\_\_\_ Signature of the applicant

Sponsored by \_\_\_\_\_  
Designation \_\_\_\_\_  
Organization \_\_\_\_\_

Signature of sponsoring authority with official seal.

All correspondence should be addressed to:

### Course Coordinator

#### Dr. P. S. Satsangi

Professor & Head  
(Principal Coordinator)  
Mechanical Engg. Department,  
Punjab Engineering College  
(Deemed to be University),  
Sector-12, Chandigarh-160012  
Email: [pssatsangi@pec.ac.in](mailto:pssatsangi@pec.ac.in),  
[pssatsangi@yahoo.com](mailto:pssatsangi@yahoo.com)  
Phone: (0172) 2753551(O),  
Mobile: 09814798963  
Fax No. (0172) 2745175

### Co-Coordinator

#### Dr. D. R. Prajapati

Mechanical Engg. Department,  
Punjab Engineering College  
(Deemed to be University),  
Sector-12, Chandigarh-160012  
Email: [prajapatimed@gmail.com](mailto:prajapatimed@gmail.com)  
Phone: (0172) 2753555(O),  
Mobile: 09876166331

### Local Joint Co-Coordinator

#### Mr. Parveen

AP(TE) and TEQIP-III Coordinator  
J.N. Govt. Engg. College  
Sundernagar Distt. Mandi (HP)  
[parveenmastana@rediffmail.com](mailto:parveenmastana@rediffmail.com)  
Mobile: 9418003407

### Mode of Payment

The registration fee should be sent by bank draft payable at the "State Bank of India" (Branch Code 2452), Punjab Engineering College (Deemed to be University) Sector-12, Chandigarh branch and drawn in the favour of Director, Punjab Engineering College (Deemed to be University) Chandigarh.

### About the Punjab Engineering College

Punjab Engineering College (Deemed to be University), Chandigarh formerly known as Maclagan Engineering College Lahore in pre partitioned India, started operating from its Chandigarh premises in the year 1954. In 1994, the National Foundation of Engineers adjudged this college the best technical college in India. Currently the institute is offering eight undergraduate courses and Fourteen postgraduate courses. The institute has a well-developed infrastructure with facilities for all sorts of sports, specialized laboratories, and libraries for various disciplines, hostels, residential complex etc. The institute has been conferred the status of Deemed University in 2004.

### Important Dates

Receipt of Registration by: 30<sup>th</sup> April 2018  
Intimation of Selection by: 10<sup>th</sup> May 2018  
(Through email)

### Course Venue:

J.N. Govt. Engg College  
Sundernagar, Distt. - Mandi (HP)

## SHORT TERM COURSE

ON

## STATISTICAL METHODS IN RESEARCH METHODOLOGY

(Under TEQIP III)

(For Engineering College Teachers,  
Practicing Engineers and Scientists)

**04.06.2018 to 08.06.2018**

AT



**Organized by**



**Mechanical Engineering Department**

**Punjab Engineering College  
(Deemed to be University)  
Sector-12, Chandigarh 160012**

**Phone: 0172 2753551**

**Fax: 0172- 2745175**

**website:www.pec.ac.in**