

## REGISTRATION FORM

### Faculty Development Programme On

### Mechanical Design Techniques for Academic and Industrial Environment

Name of the Applicant :  
Designation :  
Name of the Employer :  
Name of the Department :  
Official E-mail Id :  
Applicant's Mobile No. :  
Applicant's E-mail Id :  
Academic Qualifications :  
Specialisation :  
Experience (in Years) :  
Teaching : Industry :

Signature of Applicant with date

Counter signature of Head of Institute with date

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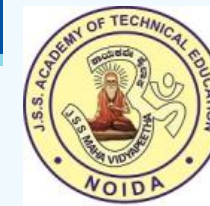
Prof. G. urulingappa M. Patil, Principal, JSSATE, Noida.

### Program Coordinator:

Prof. T.G. Mamatha, HoD (ME)  
Department of Mechanical Engineering, JSSATE, Noida

### Departmental Organizing Committee:

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JSS MAHAVIDYAPEETHA  
JSS ACADEMY OF  
TECHNICAL EDUCATION,  
NOIDA

### Faculty Development Programme On

### Mechanical Design Techniques for Academic and Industrial Environment

8<sup>th</sup> - 19<sup>th</sup> July 2019

Sponsored by  
DR. APJ ABDUL KALAM TECHNICAL  
UNIVERSITY, LUCKNOW



Organized by  
DEPARTMENT OF MECHANICAL  
ENGINEERING JSS ACADEMY OF  
TECHNICAL EDUCATION  
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## INTRODUCTION

**“Knowing is not enough; we must apply. Willing is not enough; we must do.”**

Johnson Von Goethe, German Philosopher

Research is a continuous and dynamic activity that mainly focuses on systematically finding solutions to problems. The purpose of research is to discover answers to questions through the application of scientific procedures. The probability of success of a research project is greatly enhanced when the “beginning” is correctly defined as a precise statement of goals and rationale. Having accomplished this, the sequential steps necessary for writing a research plan and then successfully executing a research project are easier to identify and organize. Hence research design is a crucial factor contributing to the reliability of the results attained. It therefore provides a solid base for the whole research.

Knowledge of applied research tools and methodology along with the use of appropriate software helps in integrating research and practice. It proves the relevance of theory to the real world environment thereby enhancing the validity and applicability of the research findings. In academia, good publications call for more in-depth research with sound analysis of data. Hence the significance of research methodology is paramount for the research process.

The primary aim of this FDP is to provide the participants with the fundamentals of research design and methodology to conduct relevant research that will aid quality decision making and contribute to the body of knowledge in various areas of interest. The FDP aims at developing analytical skills amongst the participants to enable them to tackle myriads of problems in Economics, Finance, Marketing, HR and Social Sciences etc.

## OBJECTIVES OF THE FDP:

- To familiarize the participants with the basics of research design and methodology.
- To enable the participants to understand applicability of different research techniques in different situations
- To provide hands on experience to the participants in analysing and interpreting data using statistical software.
- To provide them with an opportunity to present and discuss their research related issues with the facilitator.

## SCOPE:

- Introduction to research design, its validity, developing and stating research hypothesis, Project proposal writing and project report writing
- Design of data collection forms/research instruments and methods of assessing reliability and validity, Sampling plan, Research design using multi-criteria decision making
- Issues of Scaling, Editing, Tabulating data using statistical software & Descriptive Statistics, How to write a quality research paper
- Data analysis tools and techniques and use of SPSS in data analysis, Bivariate & multivariate data analysis using SPSS

## PEDAGOGY:

Application of concepts will be through discussions, live software training, exercises and lectures.

## RESOURCE PERSONS:

1. **Dr. R.N Subudhi**, Professor, KSOM, KIIT, Bhubaneswar
2. **Dr. Sushant Kumar Tripathy**, Professor, School of Mechanical Engineering, KIIT, Bhubaneswar
3. **Dr. Susil Pattnaik**, Asst.Prof (Com.), P.N College, Khordha
4. **Mr. Anil Kumar Mishra**, Asst. Prof. (Eco), BIITM, Bhubaneswar.

## TARGET AUDIENCE

The participants of the program would be the faculty members and research scholars who have an inherent inclination towards research. The participants may be beginners or they may be in the middle of a research project or at the analysis stage.

## PROGRAMME SCHEDULE:

Day & Date	Timings	Particulars
Day 1 03/07/2015	10:00 am to 11:00 am	Inauguration
	11:30 am to 1:30 pm	Introduction to research design, its validity, developing and stating research hypothesis, Project proposal writing and project report writing
	1:30 pm to 2:30 pm	Lunch Break
	2:30 pm to 4:30 pm	Design of data collection forms/ research instruments and methods of assessing the reliability and validity, Sampling plan, Research design using multi-criteria decision making
Day 2 04/07/2015	10:30 am to 12:30 pm	Issues of Scaling, Editing, tabulating data using statistical software & Descriptive Statistics, How to write a quality research paper
	1:00 pm to 2:00 pm	Lunch Break
	2:00 pm to 4:00 pm	Data analysis tools and techniques and use of SPSS in data analysis, Bivariate & multivariate data analysis using SPSS
	4:00 pm To 5:00 pm	Valediction