

Mechanical Department

16<sup>th</sup> & 17<sup>th</sup> January , 2015

Research Methodology

SMT. S. R. PATEL ENGINEERING COLLEGE

# FDP Report

## Two Day National Seminar on “ RESEARCH METHODOLOGY ”

### Objectives:

To get the knowledge about the Advances in the field of Research Methodology.

To know the up coming requirements related to research of alternates in different field.

To study the varieties optimization of the system.

### Speakers:

**Dr . B. S. Munjal**  
Head, Structures Systems,  
ISRO, Ahmedabad

**Dr. P. H. Shah**  
Principal  
UVPCE, Ganpat Uni.

**Dr. Dineshkumar**  
Asst. Prof.  
MNIT, Jaipur

**Dr. Gaurav Mishra**  
Professor

DAIICT, Gandhinagar  
**Dr. Vimal Savsani**  
Asst. Prof.

PDPU, Gandhinagar

**Dr. J. M. Prajapati**

Asst. Prof.

M.S. University

**Dr. N. M. Devashryee**

Professor

Nirma University

**Dr. S. P. Purohit**

Professor

Nirma University

**Dr. S. S. Patel**

Head, Chemical Dept.

Nirma University

**Dr. R. N. Patel**

Head, Mech. Dept.

Nirma University

### FDP co-ordinators:

**Dr. Bhavesh Patel**

Asso. Prof.

Ganpat University

### Summary:

Faculty got the good advance knowledge of about Research Methodology the expert explained the following topics.

### Topics :

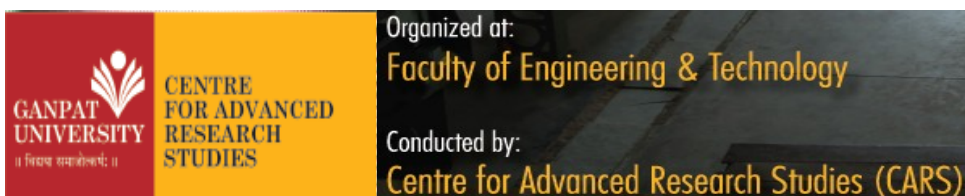
- Importance - Expected Outcome of Research
- Selection of Research Topic
- Emerging Research Areas in Engineering & Technology Nano-Technology,
- Space Technology,
- Smart Materials,
- Sustainable Development
- Mathematical Modeling
- Availability of Research Fund
- Application of Statistical & Probability Methods in Research
- Use of Optimization Methods
- Applications of Numerical Methods
- Tools for Data Analysis
- Resources Available for Research in India

### Participated & Submitted By:

Prof. Harshadkumar C Patel

### DETAIL OF FDP

Research is an integral part of education, as one of important objectives of education is to inculcate ability to explore new ideas and to think independently. Research provides higher order learning opportunities involving analysis, evaluation and synthesis (creation of new knowledge). Devoid of the intellectual stimulation fostered by research, students fall short of invaluable knowledge and self-reliant skills which are useful in many careers and other areas of life. Moreover, these self-learning, problem-solving skills can prove crucial for surviving in today's challenging job market. Also, research is important for creation of knowledge and development of science, technology and overall welfare of society. In order to discuss how this journey of research can be taken up by PG and Ph. D. scholars, guiding in terms motivation for research, prerequisites required for research, methods and techniques of research as well as to provide information regarding financial support available for research from Government bodies as well as Non-Government agencies.



Organized at:

Faculty of Engineering &amp; Technology

Conducted by:

Centre for Advanced Research Studies (CARS)