1. WORK PLAN AND METHODOLOGY:

Experimental method will be used to study the effectiveness of cooperative learning strategies on professional skills and Emotional Intelligence of B.Ed students. In the present study the effectiveness of independent variable on dependent variable has to study so experimental method is useful than any other method.

- **Research design:**
  In this study researcher is going to use 2x2 factorial experimental designs.

2x2 Factorial designs

**Teaching Methods**

<table>
<thead>
<tr>
<th></th>
<th>Cooperative learning strategies</th>
<th>Lecture Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Group 1</td>
<td>Group 2</td>
</tr>
<tr>
<td>B</td>
<td>Group 3</td>
<td>Group 4</td>
</tr>
</tbody>
</table>

- **Sampling techniques:**
  - Non probability sampling technique will be used to select two colleges from Mumbai Region.
  - Simple random sampling technique will be used to select B.Ed students from selected colleges.

- **Research tool :**
  1. Personal data sheet
  2. Achievement test
  3. Emotional intelligence test
  4. Professional skill scale
Procedure of experiment:

Sample selection → Making equivalent groups → Pretest

Experimental group → Teaching through cooperative learning

Control group → Teaching through lecture Method

Post test → Data collection → Findings

Data collection:

Following Data analysis techniques will be used in this study:

A) Descriptive Analysis Techniques
   - Measurement of Central Tendency
   - Measurement of Variance
   - Frequency and Graphs

B) Inferential Analysis Technique
   - ‘t’Test
   - F Test
• ‘r’ Coefficient correlation of Pearson
• ANCOVA (As per need)

Variables of the study:

A) Independent variables
   1. Cooperative learning strategies
      (Think pair share, The Williams, STAD (Student Teams Achievement Divisions))
   2. Lecture method

B) Dependent variables:
   1. Professional skills
   2. Emotional Intelligence

C) Intervening Variables:
   1. Motivation
   2. Anxiety
   3. Fatigue
   4. Interest
   5. Curiosity
   6. Previous knowledge of subject

D) Extraneous Variables:
   1. Family Environment
   2. Social Environment
   3. Political Environment

Significance of Research:

Through this study students will introduced to Emotional Intelligence and professional skills. This study would help the teacher training students to know themselves own and others. Self learning would create an interest among the students and help to develop the value of cooperation among them and develop the sense of unity and destroy the inferiority complex if any. By understanding the importance of Cooperative Learning curriculum constructor and developers will develop curriculum as appropriate to cooperative learning strategies. It will
be useful to introduce these kinds of strategies in the pre-service and in-service teacher training programme and teacher education curriculum will be based on the Emotional intelligence along with the cognitive aspects.