Work Plan & Research Methodology:

Research Area:
To identify and solve the issues faced by degree level working students of distance education in Mumbai.

Sources of data:
This section will be divided into two parts:

Part I – Survey Method (Fowler, 2009)-

• In this method, the researcher will conduct a general survey with the teaching staff, the parents of students and the overall students in general.

• This section will also include the details of the sample and the procedure of conducting this survey.

Part II- Questionnaire Method (Beckett, 2004)-

• Here the researcher will design a questionnaire based on the main issues and concerns of working students and analyse them via the pre-test method.

• The following sections will be discussed in detail:
  • Desired sample chosen for Questionnaire
  • Selection methods of the Sample
  • Sample Groups for pre-test and post-test methods
  • The Experimental design chosen for this research.

The research methodology will also include the process of data procedure, data collection and the statistical tools used for analysis (Dewberry, 2004).
Research Design:

Two equivalent group experimental methods with pre test – post test design.

The Pre test- Post test Equivalent Group Design (White, 2009):

$R_{01} X_{02} X_{gain} = 02 - 01, 01, 03 = \text{Pre test}$

$R_{03} C_{04} C_{gain} = 04 - 03, 02, 04 = \text{Post test}$

X - Experimental group
C - Control group

The experimental group is treated by an experimental procedure, Method X, while the control group is treated by the usual method, Method C.

Variables—

Independent Variable ---- The model

Dependent variable ------ Performance of Arts and Commerce working students

Controlled Variables------Duration of the course, Syllabus and Environment. Essential Elements of the Centre for Community and Economic Development
**Sample Size:**

**Population:**
The number of students admitted at the degree level for arts and commerce in the YCMOU study centres in western suburbs of Mumbai during the academic year 2010-11 are as follows:-

**Table 1: List of students in academic year 2010-11**

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Names Of Study Centres</th>
<th>Number Of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Arts</strong></td>
</tr>
<tr>
<td>1</td>
<td>Chetna College Bandra (East)</td>
<td>281</td>
</tr>
<tr>
<td>2</td>
<td>R.D.National College, Bandra (West)</td>
<td>32</td>
</tr>
<tr>
<td>3</td>
<td>Anandilal Poddar College, Santacruz (West)</td>
<td>204</td>
</tr>
<tr>
<td>4</td>
<td>Chatrapati Shivaji Vidyalaya, Vile Parle (East)</td>
<td>nil</td>
</tr>
<tr>
<td>5</td>
<td>Srinivas Bagarka College, Andheri (East)</td>
<td>107</td>
</tr>
<tr>
<td>6</td>
<td>Savitribai Phule Jr.College, Andheri (East)</td>
<td>125</td>
</tr>
<tr>
<td>7</td>
<td>Kala Vidyalay &amp; Jr.College, Malad (West)</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>C.U.Shah School &amp; Mumbadevi Jr.College, Kandivili (East)</td>
<td>279</td>
</tr>
<tr>
<td>9</td>
<td>Anudatta Vidyalaya &amp; Jr.College, Kandivali (East)</td>
<td>83</td>
</tr>
<tr>
<td>10</td>
<td>Priyadarshini Night Jr.College, Kandivali (West)</td>
<td>51</td>
</tr>
<tr>
<td>11</td>
<td>Pragati Vidyalaya &amp; Jr.College, Borivli (West)</td>
<td>373</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td>1540</td>
</tr>
</tbody>
</table>

- The number of students registered in the YCMOU Study Centre at Shree Mumbadevi College, Kandivili (East), Mumbai –Centre No. 31319 - (2010-11)
The following table shows the total number of students registered in the YCMOU Study Centre at Shree Mumbadevi College, Kandivli (East), Mumbai – Centre No. 31319 during (2010-11) out of which the researcher intends to study only the working students.

Table 2: Sample of Students

<table>
<thead>
<tr>
<th>Study Centre</th>
<th>Total number of students</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.U. Shah &amp; Mumbadevi Jr. College</td>
<td>0696</td>
</tr>
<tr>
<td>Pragati College</td>
<td>1398</td>
</tr>
<tr>
<td>Total</td>
<td>2094</td>
</tr>
</tbody>
</table>

**Control Group:**

Working students at degree level in YCMOU Study Centre at Pragati College, Gorai, Borivali (W), Mumbai.

**Experimental Group:**

Working students studying at the degree level for Arts & Commerce in YCMOU Study Centre at the Mumbadevi Jr. College, Kandivali (E), Mumbai.

**Sample technique**

The data will be collected in two successive academic years. The pre-test will be conducted at the end of first academic year and the post-test will be conducted at the end of second academic year. T- Test will be used for analysis.
Analysis of Data

Tools:

a) Information Collection Tools:
A structured questionnaire will be prepared by the researcher with the help of experts. The reliability of the questionnaire will be determined by using a pilot study. Questionnaire and interviews will be used to evaluate the problems of the working students. Opinionnaires will be used to check the reliability and relevance of the data.

For Data Collection- To identify the difficulties

(1) Interview - Of students
    Of parents
    Of teachers

(2) Questionnaire - For students

b) Statistical Tools:

1. Statistical mean

2. T-test-Before & After (Mowery, 2011)

3. Microsoft Excel Software.