Chapter IV

ANALYSIS OF DATA AND RESULTS OF THE STUDY

The statistical analysis of data\(^1\) which was collected from three different categories of subject has been presented in this chapter.

The subjects for this study were participants of Refresher Course in Physical Education, Resource Person, Director Academic Staff College and additional data was also collected from the Annual Report of UGC. Such as number of beneficiaries, allocation of budget to ASC for conducting Orientation and Refresher Course.

Separate questionnaire for each category of subject were developed with the guidance of experts and the data was collected through using different methods like sending questionnaire by post, personal interview, telephonic calls and through e-mails etc. for quick and prompt response self addressed envelope were also sent with each questionnaire to all subjects.

\(^1\) Data appears in appendices.
Findings

The data was analyze by applying chi-square to each question separately and further the chi-square values were compared and analyze with tabulated value at .05 level of significant.

For better analysis the data was further calculated into percentage and it is also represented with pie diagrams.

Data pertaining to budgetary allocation and course beneficiaries were subjected to year wise percent comparison in terms of increase and decrease in succeeding years.

Graphical comparison of above findings were also made and presented systematically for meaningful inferences.

Further data on information pertaining to infrastructure availability was presented in the form of listing availability and non availability under specific head of facility.

The statistical finding pertaining to chi-square analyses of opinions of course trainee/participants, Resource Persons, Director of ASC’s were presented in table 1 – 7

Pie diagram of each statement in terms of percentage to responses is presented in figure 1 – 57
Descriptive percentage comparison of budgetary allocations year wise is presented in table – 8. Similarly percentage comparison of number of course beneficiaries’ year wise presented in table – 9.

Table No -1

Chi-Square Analysis of Responses of Participant of Refresher Course at ASC (UGC)  
N - 600

<table>
<thead>
<tr>
<th>Statements</th>
<th>No. of Responses</th>
<th>% or Responses</th>
<th>No. of Responses</th>
<th>% of Responses</th>
<th>chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Do you think Refresher Course are essential for in-service teachers/ employees?</td>
<td>512</td>
<td>85.33%</td>
<td>88</td>
<td>14.66%</td>
<td>299.63</td>
</tr>
<tr>
<td>2. Do you think Refresher Course are essential for upgrading the subject knowledge?</td>
<td>565</td>
<td>94.16%</td>
<td>35</td>
<td>5.83%</td>
<td>468.17</td>
</tr>
<tr>
<td>3. Refresher Course should not be made compulsory for promotions.</td>
<td>265</td>
<td>44.16%</td>
<td>335</td>
<td>55.83%</td>
<td>8.17</td>
</tr>
<tr>
<td>4. Are you of the opinion that Refresher Courses are not serving any purpose and they should be done away with.</td>
<td>141</td>
<td>23.50%</td>
<td>459</td>
<td>76.50%</td>
<td>168.54</td>
</tr>
</tbody>
</table>

From the table no. 1 it is clearly evident that for the statement listed 1 to 4. Subjects i.e. participant of Refresher Courses of Physical Education have significantly opined with different options i.e. YES or NO,

For the statement no. 1 “Do you think Refresher Courses are essential for in-service teachers / employees” 85.33% of subjects
has opined as YES and 14.66% has opined as NO. Since the chi-square value is 299.63 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES with 85.33%.

For the statement no. 2 “Do you think Refresher Courses are essential for upgrading the subject knowledge” 94.16% of subjects has opined as YES and 5.83% has opined as NO. Since the chi-square value is 468.17 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES with 94.16%.

For the statement no. 3 “Refresher Courses should not be made compulsory for promotions” 44.16% of subjects has opined as YES and 55.83% has opined as NO. Since the chi-square value is 8.17 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to NO with 55.83%.

For the statement no. 4 “Are you of the opinion that Refresher Courses are not serving any purpose and they should be done away with” 23.5% of subjects has opined as YES and 76.54% has opined as NO. Since the chi-square value is 168.54 which is highly significant and it implies significant diversion of opinion
with significant, majority of opinion converging to NO with 76.54%.

Figure - 1

Do you think Refresher Courses are essential for in-service teachers/employees?

Figure - 2

Do you think Refresher Courses are essential for upgrading the subject knowledge?
Refresher Courses should not be made compulsory for promotions

Figure - 3

Are you of the opinion that Refresher Courses are not serving any purpose and they should be done away with?

Figure - 4
Table No – 2

Chi-Square Analysis of Responses of Participant of Refresher Course at ASC (UGC)  
N - 600

<table>
<thead>
<tr>
<th>Statements</th>
<th>No. of Responses</th>
<th>% of Responses</th>
<th>No. of Responses</th>
<th>% of Responses</th>
<th>No. of Responses</th>
<th>% of Responses</th>
<th>% of Responses</th>
<th>chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Do you think Refresher Courses that you have attended improved your professional competency?</td>
<td>35</td>
<td>5.83%</td>
<td>456</td>
<td>76%</td>
<td>109</td>
<td>18.16%</td>
<td>505.21</td>
<td></td>
</tr>
<tr>
<td>6. Do you think Refresher Course have improved your teaching skills?</td>
<td>124</td>
<td>20.66%</td>
<td>388</td>
<td>64.66%</td>
<td>88</td>
<td>14.66%</td>
<td>268.32</td>
<td></td>
</tr>
<tr>
<td>7. Does course content satisfy your expectation?</td>
<td>88</td>
<td>14.66%</td>
<td>476</td>
<td>79.33%</td>
<td>36</td>
<td>6%</td>
<td>578.08</td>
<td></td>
</tr>
<tr>
<td>8. Are you satisfied with the quality of Resource Person of the course you have attended?</td>
<td>70</td>
<td>11.66%</td>
<td>442</td>
<td>73.66%</td>
<td>88</td>
<td>14.66%</td>
<td>440.04</td>
<td></td>
</tr>
<tr>
<td>9. Are you of the opinion that course/courses you have attended have neglected important areas of this profession?</td>
<td>194</td>
<td>32.66%</td>
<td>265</td>
<td>44.16%</td>
<td>141</td>
<td>23.50%</td>
<td>38.71</td>
<td></td>
</tr>
<tr>
<td>10. Does the course content cover relevant areas &amp; issues of this profession?</td>
<td>17</td>
<td>2.83%</td>
<td>388</td>
<td>64.66%</td>
<td>195</td>
<td>32.50%</td>
<td>344.29</td>
<td></td>
</tr>
<tr>
<td>11. Does the course content prove their practical utility for this profession?</td>
<td>88</td>
<td>14.66%</td>
<td>317</td>
<td>52.83%</td>
<td>195</td>
<td>32.50%</td>
<td>131.28</td>
<td></td>
</tr>
<tr>
<td>12. Are you satisfied with teaching methodology adopted in the programme.</td>
<td>35</td>
<td>5.83%</td>
<td>442</td>
<td>73.66%</td>
<td>123</td>
<td>20.50%</td>
<td>458.59</td>
<td></td>
</tr>
<tr>
<td>Statements</td>
<td>No. of Responses</td>
<td>% of Responses</td>
<td>No. of Responses</td>
<td>% of Responses</td>
<td>No. of Responses</td>
<td>% of Responses</td>
<td>No. of Responses</td>
<td>% of Responses</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------</td>
<td>-----------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>----------------</td>
<td>-----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>13. Are you satisfied with boarding facilities provided at the center of the course?</td>
<td>35</td>
<td>5.83%</td>
<td>247</td>
<td>41.66%</td>
<td>318</td>
<td>53%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. Are you satisfied with course management and day to day programme of the center?</td>
<td>53</td>
<td>8.83%</td>
<td>318</td>
<td>53%</td>
<td>229</td>
<td>38.16%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From the table no. 2 it is clearly evident that for the statement listed 5 to 14 Subjects i.e. participant of Refresher Courses of Physical Education have significantly opined with different options i.e. Not at all, To some extent and To a great extent.

For the statement no. 5 “Do you think Refresher Courses that you have attended improved your professional competency?" 5.83% of subjects have opined as Not at all, 76% of subject has opined To some extent and 18.16% of subject has opined as To a great extent. Since the chi-square value is 505.21 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 76% opinion To some extent. For the statement no. 6 “Do you think Refresher
Courses have improved your teaching skills?" 20.66% of subjects have opined as Not at all, 64.66% of subject has opined To some extent and 14.66% of subject has opined as To a great extent. Since the chi-square value is 268.32 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 64.66% opinion To some extent.

For the statement no. 7 "Does course content satisfy your expectation?" 14.66% of subjects have opined as Not at all, 79.33% of subject has opined To some extent and 6% of subject has opined as To a great extent. Since the chi-square value is 578.08 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 79.33% opinion To some extent.

For the statement no. 8 "Are you satisfied with the quality of Resource Persons of the courses you have attended?" 11.66% of subjects have opined as Not at all, 73.66% of subject has opined, To some extent and 14.66% of subject has opined as To a great extent. Since the chi-square value is 440.04 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 73.66% opinion To
some extent. For the statement no. 09 “Are you of the opinion that
course/courses you have attended have neglected important areas
of this profession?” 32.33% of subjects have opined as Not at all,
44.16% of subject has opined To some extent and 23.5% of subject
has opined as To a great extent. Since the chi-square value is 38.71
which is highly significant and it implies significant diversion of
opinions with significant, majority of opinion converging to
44.16% opinion To some extent.

For the statement no. 10 “Does the course content cover
relevant areas & issues of this profession?” 2.83% of subjects have
opined as Not at all, 64.66% of subject has opined To some extent
and 32.50% of subject has opined as To a great extent. Since the
chi-square value is 344.29 which is highly significant and it implies
significant diversion of opinions with significant, majority of
opinion converging to 64.66% opinion To some extent. For the
statement no. 11 “Does the course content prove their practical
utility for this profession” 14.66% of subjects has opined as Not at
all, 52.83% of subject has opined To some extent and 32.5% of
subject has opined as To a great extent. Since the chi-square value
is 131.28 which is highly significant and it implies significant
diversion of opinions with significant, majority of opinion converging to 52.83% opinion To some extent.

For the statement no. 12 “Are you satisfied with the teaching methodology adopted in the Programme?” 5.83% of subjects have opined as Not at all, 73.66% of subject has opined To some extent and 20.5% of subject has opined as To a great extent. Since the chi-square value is 458.59 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 73.66% opinion To some extent.

For the statement no. 13 “Are you satisfied with boarding facilities provided at the center of the course?” 5.83% of subjects have opined as Not at all, 41.66% of subject has opined To some extent and 53% of subject has opined as To a great extent. Since the chi-square value is 216.79 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 53% opinion To a great extent.

For the statement no. 14 “Are you satisfied with course management & day to day Programme of the center?” 8.83% of subjects have opined as Not at all, 53% of subject has opined To some extent and 38.16% of subject has opined as To a great extent. Since the chi-square value is 181.87 which is highly significant and
it implies significant diversion of opinions with significant, majority of opinion converging to 53% opinion To some extent.

**Fig. 15**

Do you think Refresher Courses that you have attended improved your professional competency?

- Not at All: 109
- To Some Extent: 35
- To A Great Extent: 456

**Fig. 6**

Do you think Refresher Courses have improved your teaching skills?

- Not at All: 88
- To Some Extent: 124
- To A Great Extent: 388
Fig. 7

Does course content satisfy your expectation?

- Not at All: 36
- To Some Extent: 88
- To A Great Extent: 476

Fig. 8

Are you satisfied with the quality of Resource Persons of the courses you have attended?

- Not at All: 88
- To Some Extent: 17
- To A Great Extent: 70

442
Are you of the opinion that course/courses you have attended have neglected important areas of this profession?

Fig. 9

Does the course content cover relevant areas & issues of this profession?

Fig. 10
Does the course content prove their practical utility for this profession?

![Pie chart showing the results of a survey question about the practical utility of course content.](image)

Fig. 11

Are you satisfied with the teaching methodology adopted in the programme?

![Pie chart showing the results of a survey question about satisfaction with teaching methodology.](image)

Fig. 12
Are you satisfied with boarding facilities provided at the center of the course?

Fig. 13

Are you satisfied with course management and day to day programme of the center?

Fig. 14
<table>
<thead>
<tr>
<th>Statements</th>
<th>No. of Responses</th>
<th>% of Responses</th>
<th>% of Responses</th>
<th>% of Responses</th>
<th>Chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td>15. Whether seminar &amp; workshop were part of your course content?</td>
<td>582</td>
<td>97%</td>
<td>18</td>
<td>3%</td>
<td>530.16</td>
</tr>
<tr>
<td>16. Whether Refresher Training were part of your course content?</td>
<td>388</td>
<td>64.66%</td>
<td>212</td>
<td>35.33%</td>
<td>51.63</td>
</tr>
<tr>
<td>17. Did the course you have attended offered training in the use of Teaching Gadgets &amp; Teaching Aids?</td>
<td>457</td>
<td>76.16%</td>
<td>143</td>
<td>23.83%</td>
<td>164.33</td>
</tr>
<tr>
<td>18. Are you satisfied with training of Teaching Gadgets &amp; teaching aids?</td>
<td>423</td>
<td>70.50%</td>
<td>177</td>
<td>29.50%</td>
<td>100.86</td>
</tr>
<tr>
<td>19. Did the course you attended offered computer training?</td>
<td>513</td>
<td>85.50%</td>
<td>87</td>
<td>14.50%</td>
<td>302.46</td>
</tr>
<tr>
<td>20. Are you of the opinion that course content should compulsorily include training of computer education?</td>
<td>513</td>
<td>85.50%</td>
<td>87</td>
<td>14.50%</td>
<td>302.46</td>
</tr>
<tr>
<td>21. Did the course you attended covered practical Teaching &amp; Coaching, relevant to sports and games?</td>
<td>406</td>
<td>67.66%</td>
<td>194</td>
<td>32.33%</td>
<td>74.91</td>
</tr>
</tbody>
</table>

From the table no. 3 it is clearly evident that for the statement listed 15 to 21. Subjects i.e. participant of Refresher Courses of Physical Education have significantly opined with different options i.e. YES or NO.

For the statement no. 15 “Whether seminar & workshop were part of your Course content?” 97% of subjects have opined as YES and 3% has opined as NO. Since the chi-square value is
530.16 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES with 97%.

For the statement no. 16 “Whether Research Training was part of your course content?” 64.66% of subjects have opined as YES and 35.33% has opined as NO. Since the chi-square value is 51.63 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES with 64.66%.

For the statement no. 17 “Did the courses you have attended offered training in the use of teaching Gadgets & teaching Aids?” 76.16% of subjects had opined as YES and 23.83% has opined as NO. Since the chi-square value is 164.33 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES 76.16%.

For the statement no. 18 “Are you satisfied with training of Teaching Gadgets & Teaching Aids?” 70.5% of subjects had opined as YES and 29.5% has opined as NO. Since the chi-square value is 100.86 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES with 70.5%. 
For the statement no. 19 “Did the courses you attended offered computer training?” 85.5% of subjects had opined as YES and 14.5% has opined as NO. Since the chi-square value is 302.46 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES with 85.5%.

For the statement no. 20 “Are you of the opinion that courses content should compulsory include training of computer education?” 85.5% of subjects had opined as YES and 14.5% has opined as NO. Since the chi-square value is 302.46 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES with 85.5%.

For the statement no. 21 “Did the courses you attended covered practical Teaching & Coaching, relevant to sports & games?” 67.66% of subjects had opined as YES and 32.33% has opined as NO. Since the chi-square value is 74.91 which is highly significant and it implies significant diversion of opinion with significant, majority of opinion converging to YES with 67.66%.
Did the course you have attended offered training in the use of Teaching Gadgets & Teaching Aids?

Fig. 17

Are you satisfied with training of Teaching Gadgets & Teaching Aids?

Fig. 18
Did the course you attended offer computer training?

- Yes: 513
- No: 87

Fig. 19

Are you of the opinion that course content should compulsorily include training of computer education?

- Yes: 513
- No: 87

Fig. 20
Did the course you attended covered practical teaching & coaching, relevant to sports & games?

Fig. 21
significant diversion of opinions with significant, majority of opinion converging to 73.5% opinion (b).

Fig. 22

In your opinion the course content should have:

- Graduate & Postgraduate Syllabus: 388
- Thrust area of the discipline: 141
- New & Emerging areas of Discipline: 35
- Research Training: 36
- All Above

Fig. 23

In your opinion the Refresher Courses should lay emphasis on:

- Thrust areas of discipline: 72
- New & emerging areas of discipline: 441
- Research training: 35
- Teaching skills & methodology: 52
### Table No – 4

**Chi-Square Analysis of Responses of Participant of Refresher Course at ASC (UGC)**

**N - 600**

<table>
<thead>
<tr>
<th>Statements</th>
<th>Responses A</th>
<th>Responses B</th>
<th>Responses C</th>
<th>Responses D</th>
<th>Responses E</th>
<th>Chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>%age</td>
<td>No.</td>
<td>%age</td>
<td>No.</td>
<td>%age</td>
</tr>
<tr>
<td>22. In your opinion the course content should have:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Graduate &amp; postgraduate syllabus.</td>
<td>0</td>
<td>0%</td>
<td>141</td>
<td>23.50%</td>
<td>35</td>
<td>5.83%</td>
</tr>
<tr>
<td>(b) Thrust area of the discipline</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(c) New &amp; emerging areas of discipline</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) Research training</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(e) All above.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23. In your opinion of Refresher Courses should lay emphasis on:</td>
<td>35</td>
<td>5.83%</td>
<td>441</td>
<td>73.50%</td>
<td>52</td>
<td>8.66%</td>
</tr>
<tr>
<td>(a) Thrust area of discipline.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(b) New &amp; emerging areas of discipline</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(c) Research training</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) Teaching skills and methodology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
From the table no. 4 it is clearly evident that for the statement no. 22 and 23 Subjects i.e. participant of Refresher Courses of Physical Education have significantly opined with different options i.e. (a), (b), (c), (d) & (e).

For the statement no. 22 “In your opinion the course content should have: (a) Graduate & postgraduate syllabus. (b) Thrust area of the discipline (c) New & emerging areas of discipline (d) Research training (e) All above” 00% of subjects has opined as (a), 23.5% of subject has opined (b), 8.66% of subject has opined as (c), 12% of subject has opined as (d) & 64.66% has opined as (e). Since the chi-square value is 841.21 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 64.66% opinion (e).

For the statement no. 23 “In your opinion the Refresher Courses should lay emphasis on: (a) Thrust areas of discipline (b) New & emerging areas of discipline (c) Research training (d) teaching skills & methodology” 5.83% of subjects has opined as (a), 73.5% of subject has opined (b), 8.66% of subject has opined as (c) and 12% of subject has opined as (d). Since the chi-square value is 976.16 which is highly significant and it implies
Table No – 5

Chi-Square Analysis of Responses of Director of Academic Staff Colleges

N – 24

<table>
<thead>
<tr>
<th>Statements</th>
<th>Not at All</th>
<th>To Some Extent</th>
<th>To A Great Extent</th>
<th>chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>%age</td>
<td>No.</td>
<td>%age</td>
</tr>
<tr>
<td>1. Do you consider Refresher Courses are serving its purposes effectively?</td>
<td>0</td>
<td>0%</td>
<td>5</td>
<td>20.83%</td>
</tr>
<tr>
<td>2. Does the outcome/results of Refresher Courses Physical Education of your center justify the amount of resources spent?</td>
<td>0</td>
<td>0%</td>
<td>10</td>
<td>41.66%</td>
</tr>
<tr>
<td>3. Is resource/fund allocation sufficient to meet the requirement of the center?</td>
<td>0</td>
<td>0%</td>
<td>14</td>
<td>58.33%</td>
</tr>
<tr>
<td>4. Do you often face fund shortage problem?</td>
<td>5</td>
<td>20.83%</td>
<td>14</td>
<td>58.33%</td>
</tr>
<tr>
<td>5. Is your center well equipped to run Refresher Courses?</td>
<td>0</td>
<td>0%</td>
<td>5</td>
<td>20.83%</td>
</tr>
<tr>
<td>6. Is infrastructure of your center sufficient to run Academic Staff College Center?</td>
<td>0</td>
<td>0%</td>
<td>10</td>
<td>41.66%</td>
</tr>
<tr>
<td>7. Are you of the opinion that candidates apply for Refresher Courses due to there promotional requirements only?</td>
<td>0</td>
<td>0%</td>
<td>19</td>
<td>79.16%</td>
</tr>
</tbody>
</table>

From the table no. 5 it is clearly evident that for the statement listed 1 to 7. Subjects i.e. Director of Academic Staff College have significant opinion with different options i.e. Not at all, To some extent and To a great extent.
For the statement no. 1 "Do you consider Refresher Courses are serving its purposes effectively?" 00% of subjects has opined as Not at all, 20.83% of subject has opined To some extent and 79.16% of subject has opined as To a great extent. Since the chi-square value is 24.24 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 79.16% opinion To a great extent.

For the statement no. 2 "Does the outcome/results of Refresher Courses Physical Education of your center justify the amount of resources spent?" 00% of subjects has opined as Not at all, 41.66% of subject has opined To some extent and 58.33% of subject has opined as To a great extent. Since the chi-square value is 13.0 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 58.33% opinion To a great extent.

For the statement no. 3 "Is resource/fund allocation sufficient to meet the requirement of the center?" 00% of subjects has opined as Not at all, 58.33% of subject has opined To some extent and 41.66% of subject has opined as To a great extent. Since the chi-square value is 13.0 which is highly significant and it
implies significant diversion of opinions with significant, majority of opinion converging to 58.33% opinion To some extent.

For the statement no. 4 “Do you often face fund shortage problem?” 28.83% of subjects has opined as Not at all 58.33% of subject has opined To some extent and 20.83% of subject has opined as To a great extent. Since the chi-square value is 6.74 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 58.33% opinion To some extent.

For the statement no. 5 “Is your center well equipped to run Refresher Courses?” 00% of subjects has opined as Not at all, 20.83% of subject has opined To some extent and 79.16% of subject has opined as To a great extent. Since the chi-square value is 24.24 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 79.16% opinion To a great extent.

For the statement no. 6 “Is infrastructure of your center sufficient to run ASC center?” 00% of subjects has opined as Not at all, 41.66% of subject has opined to some extent and 58.33% of subject has opined as to a great extent. Since the chi-square value is 13.0 which is highly significant and it implies significant diversion
of opinions with significant, majority of opinion converging to 58.33% opinion To a great extent.

For the statement no. 7 "Are you of the opinion that candidates apply for Refresher Courses due to their promotional requirements only?" 00% of subjects has opined as Not at all, 79.16% of subject has opined To some extent and 20.83% of subject has opined as To a great extent. Since the chi-square value is 24.24 which is highly significant and it implies significant diversion of opinions with significant, majority of opinion converging to 79.16% opinion To some extent.
Fig. 24

Do you consider Refresher Courses are serving its purposes effectively?

- Not at All: 0
- To Some Extent: 5
- To A Great Extent: 19

Fig. 25

Does the outcome/results of Refresher courses Physical Education of your center justify the amount of resource spent?

- Not at All: 0
- To Some Extent: 10
- To A Great Extent: 14
Fig. 26

Is resource/fund allocation sufficient to meet the requirement of the center?

☐ Not at All  ☐ To Some Extent  ☐ To A Great Extent

Fig. 27

Do you often face fund shortage problem?

☐ Not at All  ☐ To Some Extent  ☐ To A Great Extent

☐ Not at All  ☐ To Some Extent  ☐ To A Great Extent
Is your center well equipped to run Refresher Courses?

Fig. 28

Is infrastructure of your center sufficient to run ASC center?

Fig. 29
Are you of the opinion that candidates apply for Refresher Courses due to their promotional requirements only?

Fig. 30
<table>
<thead>
<tr>
<th>Statements</th>
<th>No. of Responses</th>
<th>% of Responses</th>
<th>No. of Responses</th>
<th>% of Responses</th>
<th>chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. Do you agree with the Refresher Course requirement for promotion?</td>
<td>19</td>
<td>79.16%</td>
<td>5</td>
<td>20.83%</td>
<td>5.99</td>
</tr>
<tr>
<td>9. Are the Resource Person arranged of highest available standard?</td>
<td>24</td>
<td>100%</td>
<td>0</td>
<td>0%</td>
<td>24</td>
</tr>
<tr>
<td>10. Do you face the problem of getting services of talented and competent Resource Persons?</td>
<td>10</td>
<td>41.66%</td>
<td>14</td>
<td>58.33%</td>
<td>0.66</td>
</tr>
<tr>
<td>11. Does your center offer Seminars/Workshops as essential part of course?</td>
<td>24</td>
<td>100%</td>
<td>0</td>
<td>0%</td>
<td>24</td>
</tr>
<tr>
<td>12. Do you also offer computer training as part of Refresher Course?</td>
<td>24</td>
<td>100%</td>
<td>0</td>
<td>0%</td>
<td>24</td>
</tr>
<tr>
<td>13. Does your center conduct examination to grade the candidates?</td>
<td>24</td>
<td>100%</td>
<td>0</td>
<td>0%</td>
<td>24</td>
</tr>
<tr>
<td>14. Do you consider examining the candidates essential for the course?</td>
<td>24</td>
<td>100%</td>
<td>0</td>
<td>0%</td>
<td>24</td>
</tr>
<tr>
<td>15. Do you receive sufficient applications for the courses?</td>
<td>14</td>
<td>58.33%</td>
<td>10</td>
<td>41.66%</td>
<td>0.66</td>
</tr>
<tr>
<td>16. Do you follow a transparent system of feedback collection from the candidates?</td>
<td>24</td>
<td>100%</td>
<td>0</td>
<td>0%</td>
<td>24</td>
</tr>
<tr>
<td>17. Is feedback from the candidates used to modify the course strategy?</td>
<td>24</td>
<td>100%</td>
<td>0</td>
<td>0%</td>
<td>24</td>
</tr>
<tr>
<td>18. Does your center provided boarding/lodging facilities to the candidates?</td>
<td>19</td>
<td>79.16%</td>
<td>5</td>
<td>20.83%</td>
<td>8.16</td>
</tr>
<tr>
<td>19. Do you receive financial assistance from agencies other than UGC.</td>
<td>5</td>
<td>20.83%</td>
<td>19</td>
<td>79.16%</td>
<td>8.16</td>
</tr>
<tr>
<td>20. Does your university provide you financial and other support to organize the courses?</td>
<td>19</td>
<td>79.16%</td>
<td>5</td>
<td>20.83%</td>
<td>8.16</td>
</tr>
</tbody>
</table>
From the table no. 6 it is clearly evident that for the statement listed 8 to 20. Subjects i.e. Director of Academic Staff College have significantly opined with different options i.e. YES or NO.

For the statement no. 8 “Do you agree with the R.C. requirement for promotion?” 79.16% of subjects have opined as YES and 20.83% has opined as NO. Since the chi-square value is 8.16 which is significant and it implies significant diversion of opinion with significant, majority of opinion converging to 79.16% opinion to YES.

For the statement no. 9 “Are the Resource Persons arranged of highest available standard?” an absolute % i.e. $\frac{24}{24}$ have opined affirmative. The % of yes opinion is 100% with chi-square value 24.

For the statement no. 10 “Do you face the problem of getting services of talented & competent Resource Persons?” 41.66% of subjects have opined as YES and 58.33% has opined as NO. Since the chi-square value is 0.66 which is insignificant and it implies insignificant diversion of opinion converging to 58.33% opinion to NO.
For the statement no. 11 “Does your center offer Seminars/Workshop as essential part of course?” an absolute % i.e. 24/24 have opine affirmative. The % of yes opinion is 100% with chi-square value 24.

For the statement no. 12 “Do you also offer computer training as part of refresher course?” an absolute % i.e. 24/24 have opine affirmative. The % of yes opinion is 100% with chi-square value 24.

For the statement no. 13 “Does your center conduct examination to grade the candidates?” an absolute % i.e. 24/24 have opine affirmative. The % of yes opinion is 100% with chi-square value of 24.

For the statement no. 14 “Do you consider examining the candidates essential for the course?” an absolute % i.e. 24/24 have opine affirmative. The % of yes opinion is 100% with chi-square value 24.

For the statement no. 15 “Do you receive sufficient applications for the courses?” 58.33% of subjects have opined as YES and 41.66% has opined as NO. Since the chi-square value is
0.66 which is insignificant and it implies insignificant diversion of opinion converging to 58.33% opinion to YES.

For the statement no. 16 “Do you follow a transparent system of feedback collection from the candidates?” an absolute % $24/24$ have opined affirmative. The % of yes opinion is 100% with chi-square value 24.

For the statement no. 17 “Is feedback from the candidates used to modify the course strategy?” an absolute % $24/24$ have opined affirmative. The % of yes opinion is 100% with chi-square value 24.

For the statement no. 18 “Does your center provide boarding/lodging facilities to the candidates?” 79.16% of subjects have opined as YES and 20.83% has opined as NO. Since the chi-square value is 8.16 which is significant and it implies significant diversion of opinion with significant, majority of opinion converging to 79.16% opinion to YES.

For the statement no. 19 “Do you receive financial assistance from agencies other than UGC?” 20.83% of subjects have opined as YES and 79.16% has opined as NO. Since the chi-square value is 8.16 which is significant and it implies significant diversion of
opinion with significant, majority of opinion converging to 79.16% opinion to NO.

For the statement no. 20 “Does your university provide you financial & other support to organize the courses?” 79.16% of subjects have opined as YES and 20.83% has opined as NO. Since the chi-square value is 8.16 which is significant and it implies significant diversion of opinion with significant, majority of opinion converging to 79.16% opinion to YES.

---

Do you agree with the R.C. requirement for promotion?

![Pie chart diagram](image)

- Yes
- No

Fig. 31
Are the Resource Persons arranged of highest available standard?

Fig. 32

Do you face the problem of getting services of talented & Competent Resource Persons?

Fig. 33
Does your center offer Seminars / Workshops as essential part of course?

Fig. 34

Do you also offer computer training as part of refresher course?

Fig. 35
Does your center conduct examination to grade the candidates?

Fig. 36

Do you consider examining the candidates essential for the course?

Fig. 37
Fig. 38

Do you receive sufficient applications for the courses?

Fig. 39

Do you follow a transparent system of feedback collection from the candidates?
Is feedback from the candidates used to modify the course strategy?

0

Yes No

24

Fig. 40

Does your center provide boarding / lodging facilities to the candidates?

5

Yes No

19

Fig. 41
Do you receive financial assistance from agencies other than UGC?

Fig. 42

Does your university provide you financial & other support to organize the courses?

Fig. 43
### Table No - 7

**Chi-Square Analysis of Responses of Director of Academic Staff Colleges**  
*N – 24*

<table>
<thead>
<tr>
<th>Statement</th>
<th>Poor</th>
<th>Average</th>
<th>Good</th>
<th>Excellent</th>
<th>Chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>%ag e</td>
<td>No.</td>
<td>%ag e</td>
<td>No.</td>
</tr>
<tr>
<td>21. How do you rate the courses of your center?</td>
<td>00</td>
<td>0%</td>
<td>00</td>
<td>0%</td>
<td>10</td>
</tr>
</tbody>
</table>

From the table no. 7 it is clearly evident that for the statement No.21 subjects i.e. Director of Academic Staff College has significantly opined with different options i.e. (a) Poor, (b) Average, (c) Good, (d) Excellent.

For the statement no. 21 “How do you rate the courses of your center?” 41.66% of subjects has opined as good and 58.33% subjects has opined as excellent and none of the subject has opined with poor since the chi-square value is 13.32, which is significant and it reveals significant diversion of opinion with significant, majority of opinion converging 58.33% with excellent.
How do you rate the courses of your center?

Fig. 44
Table - 8

Chi-Square Analysis of Responses of Resource Persons of Refresher Course of Physical Education
N – 60

<table>
<thead>
<tr>
<th>Statements</th>
<th>Responses Yes</th>
<th>Responses No</th>
<th>chi-square</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>%age</td>
<td>No.</td>
</tr>
<tr>
<td>1. Do you think Refresher Courses are serving a good purpose?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>2. Do you think Refresher Courses are essential to upgrade knowledge of the inservice teachers?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>3. As a Resource Person do you think you have rendered necessary knowledge/information in the field concerning the candidates?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>4. Are you of the opinion that you have justified your duty as per the candidate’s expectation level?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>5. Were you able to provide the latest knowledge/information in the concerned field?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>6. Do you think that the knowledge you rendered was of immense practical value?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>7. Are you of the opinion that normally the Refresher Courses candidates are highly attentive and receptive to Resource Person in the class?</td>
<td>0</td>
<td>0%</td>
<td>60</td>
</tr>
<tr>
<td>8. Do you always keep abreast yourself with latest information/knowledge in the field concerned?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>9. Do face difficulty in procuring resource materials?</td>
<td>15</td>
<td>25%</td>
<td>45</td>
</tr>
<tr>
<td>10. Do you agree that the UGC Refresher Course Scheme should continue?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
<tr>
<td>11. Are you of the opinion that the Refresher Course Centers you have visited were of good standard?</td>
<td>30</td>
<td>50%</td>
<td>30</td>
</tr>
<tr>
<td>12. Are you satisfied with honorarium you received from the Refresher Course Centers?</td>
<td>45</td>
<td>75%</td>
<td>15</td>
</tr>
<tr>
<td>13. Are you satisfied with boarding and lodging facilities provided by Refresher Course Centers?</td>
<td>60</td>
<td>100%</td>
<td>0</td>
</tr>
</tbody>
</table>

From the table no. 8 it is clearly evident that for the statement listed 1 to 13. Subjects i.e. Resource Persons of
Refresher Courses of Physical Education have significant opinion with different options i.e. YES or NO.

For the statement no. 1 “Do you think Refresher Courses are serving a good purpose” an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.

For the statement no. 2 “Do you think Refresher Courses are essential to upgrade knowledge of the in-service teachers?” an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.

For the statement no. 3 “As are Resource person do you think you have rendered necessary knowledge/information in the field concerning the candidates” an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.

For the statement no. 4 “Are you of the opinion that you have justified your duty as per the candidate’s expectation level?” an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.
For the statement no. 5 “Were you able to provide the latest knowledge/information in the concerned field?” an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.

For the statement no. 6 “Do you think that the knowledge you rendered was of immense practical value?” an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.

For the statement no. 7 “Are you of the opinion that normally the Refresher Courses candidates are highly attentive and receptive to Resource Persons in the class?” an absolute % 60/60 have opine with NO. The % of NO opinion is 100% with chi-square value of 60.

For the statement no. 8 “Do you always keep abreast yourself with latest information/knowledge in the field concerned” an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.

For the statement no. 9 “Do face difficulty in procuring resource materials?” 25% of subjects have opined as YES and 75% has opined as NO. Since the chi-square value is 15.00 which is highly significant and it implies overall diversion of opinion
converging to 75% opinion to NO. For the statement no. 10 "Do you agree that the UGC Refresher Course Scheme should continue?" an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.

For the statement no. 11 "Are you of the opinion that the Refresher Course Centers you have visited were of good standard?" 50% of subjects have opined as YES and 50% has opined as NO. Since the chi-square value is 00.00 which is highly insignificant and it implies that there is no specific conversion of the opinion as subjects has opined equally.

For the statement no. 12 "Are you satisfied with honorarium you received from the Refresher Course Centers" 75% of subjects has opined as YES and 25% has opined as NO. Since the chi-square value is 15.00 which is highly significant and it implies overall diversion of opinion converging to 75% opinion to YES.

For the statement no.13 "Are you satisfied with boarding & lodging facilities provided by Refresher Centers?" an absolute % 60/60 have opine in affirmative. The % of YES opinion is 100% with chi-square value of 60.
Fig. 45

Do you think Refresher Courses are serving a good purpose?

Yes □ No □

60

0

Fig. 46

Do you think Refresher Courses are essential to upgrade knowledge of the in-service teachers?

Yes □ No □

60

0
As a resources person do you think you have rendered necessary knowledge / information in the field concerning the candidates?

Fig. 47

Are you of the opinion that you have justified your duty as per the candidate's expectation level?

Fig. 48
Fig. 49

Fig. 50
Are you of the opinion that normally the Refresher Courses candidates are highly attentive and receptive to Resource Persons in the class?

Yes □ No □

Fig. 51

Do you always keep abreast yourself with latest information / knowledge in the field concerned?

Yes □ No □

Fig. 52
Do you face difficulty in procuring resource materials? Are you of the opinion that the Refresher Courses centers you have visited were of good quality?

Fig. 53

Do you agree that the UGC Refresher Course Scheme should continue?

Fig. 54
Are you of the opinion that the Refresher Course Centers you have visited were of good standard?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fig. 55

Are you satisfied with honorarium you received from the Refresher Course Centers?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>45</td>
</tr>
</tbody>
</table>

Fig. 56
Are you satisfied with boarding & lodging facilities provided by Refresher Centers?

Fig. 57
### Table No – 9

**Budgetary Allocations for Academic Staff Colleges from University Grant Commission to Conduct Orientation & Refresher Courses**

(Rs. in Lakhs)

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount Allotted (Rs. in Lakhs)</th>
<th>% of Increase in amount allotted from Previous Year</th>
<th>% of Decrease in amount allotted from Previous Year</th>
<th>Grant Released</th>
<th>% of Increase in Grant Released</th>
<th>% of Decrease in Grant Released</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000-01</td>
<td>1600</td>
<td>-</td>
<td>-</td>
<td>1612.79</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2001-02</td>
<td>1950</td>
<td>21.87%</td>
<td>-</td>
<td>1967.19</td>
<td>21.97%</td>
<td>-</td>
</tr>
<tr>
<td>2002-03</td>
<td>3000</td>
<td>53.84%</td>
<td>-</td>
<td>3017.15</td>
<td>53.38%</td>
<td>-</td>
</tr>
<tr>
<td>2003-04</td>
<td>3000</td>
<td>-</td>
<td>-</td>
<td>2124</td>
<td>-</td>
<td>29.60%</td>
</tr>
<tr>
<td>2004-05</td>
<td>2800</td>
<td>-</td>
<td>6.66%</td>
<td>2468</td>
<td>-</td>
<td>16.19%</td>
</tr>
<tr>
<td>2005-06</td>
<td>2000</td>
<td>-</td>
<td>28.57%</td>
<td>2004</td>
<td>-</td>
<td>18.80%</td>
</tr>
</tbody>
</table>

It is clearly evident from the table No. 9 that the amount which was allotted in the budget had increased in the year 2000-01, 2001-02, 2002-03 and 2005-06, whereas it was decreased in the year 2003-04 and 2004-05.

Further the data was calculated and the percentage of increase in amount allotted and grant released are shown for better analyses of data.
It is evident from the table that the amount allotted in the session 2001-02 was increased upto 81.87% from previous year i.e. 2000-01 and the total grant released in 2001-02 was also increased upto 21.97% from previous year i.e. 2000-01.

It is evident from the table that the amount allotted in the session 2002-03 was increased upto 52.84% from previous year i.e. 2001-02 and the total grant released in 2002-03 was also increased upto 53.38% from previous year i.e. 2001-02.

It is evident from the table that the amount allotted in the session 2003-04 was same as allotted previous year i.e. 2002-03 and the total grant released in 2003-04 was decreased upto 29.60% from previous year i.e. 2002-03.

It is evident from the table that the amount allotted in the session 2004-05 was decreased upto 6.66% from previous year i.e. 2003-04 and the total grant released in 2004-05 was also decreased upto 16.19% from previous year i.e. 2003-04.

It is evident from the table that the amount allotted in the session 2005-06 was decreased upto 28.57% from previous year i.e. 2004-05 and the total grant released in 2005-06 was also decreased upto 18.80% from previous year i.e. 2004-05. The
Graphical presentation of the grant released is also presented in Figure No. 58.
<table>
<thead>
<tr>
<th>Year</th>
<th>No. of Beneficiaries</th>
<th>% of Increase of Beneficiaries From Previous Year</th>
<th>% of Decrease of Beneficiaries From Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000-01</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2001-02</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2002-03</td>
<td>42,480 (approx.)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2003-04</td>
<td>21,330 (approx)</td>
<td>-</td>
<td>49.78%</td>
</tr>
<tr>
<td>2004-05</td>
<td>33,700 (approx)</td>
<td>57.99%</td>
<td></td>
</tr>
<tr>
<td>2005-06</td>
<td>32,000 (approx)</td>
<td>-</td>
<td>5.04%</td>
</tr>
</tbody>
</table>

The table No. 10 represents the total number of participants (beneficiaries) of Refreshers Course and Orientation Programme from the session 2000-06 the percentage of increased and decreased year wise have been also the represented separately in the table.

The total number of beneficiaries upto the session 2002-03 were 42,480 (approx.) and the total number of beneficiaries in the session 2003-04 were 21,330 (approx.), therefore, the percentage of
decreased in number of beneficiaries from previous year was 49.78%.

It is also evident from the table that in the session 2004-05, total numbers of beneficiaries were 33,700 (approx.), therefore, the percentage of increase in number of beneficiaries from previous year was 57.99%.

It is also evident from the table that in the session 2005-06, total numbers of beneficiaries were 32,000 (approx.), therefore, the percentage of decrease in number of beneficiaries from previous year was 5.04%.
### Table No- 11

**Infrastructure, Facilities Available in Various Academic Staff Colleges**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Academic Staff Colleges</th>
<th>Independent Building</th>
<th>Library Hall</th>
<th>Computer Lab</th>
<th>Rooms for Lodging &amp; boarding for participants</th>
<th>Guest house for resource persons</th>
<th>Mess / Dinning Hall</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ASC, University of Pune</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>2.</td>
<td>ASC, Sri Venkateswara University</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>3.</td>
<td>ASC, JNT University Hyderabad</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>4.</td>
<td>ASC, University of Madras</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Not Available</td>
<td>Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>5.</td>
<td>ASC, University of Bangalore</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
</tbody>
</table>

It is evident from the table – 11 in terms of infrastructure availability except ASC Madras, University other universities namely ASC Pune Universities, ASC Venkateswara University, ASC, JNT University Hyderabad, ASC University of Bangalore and ASC LNIPE, Gwalior have all facility.
Table No- 12

Infrastructure, Facilities Available in Various Academic Staff Colleges

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Academic Staff Colleges</th>
<th>Conference Seminar Hall</th>
<th>Lecture Hall</th>
<th>Play Fields</th>
<th>Sports / Games equipments</th>
<th>Research Equipments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ASC, University of Pune</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>2.</td>
<td>ASC, Sri Venkateswara University</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>3.</td>
<td>ASC, JNT University Hyderabad</td>
<td>Available</td>
<td>Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>4.</td>
<td>ASC, University of Madras</td>
<td>Available</td>
<td>Available</td>
<td>Not Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>5.</td>
<td>ASC, University of Bangalore</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>6.</td>
<td>ASC, LNIPE, Gwalior</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
</tbody>
</table>

It is evident from the table No. 12 that ASC's JNT University is not having Play fields, Sports Equipments and Research Equipments as well as the ASC Madras University is also not having the facility of Play fields. Whereas all other Universities have all required facilities.
### Table No- 13

**Teaching Aid & Books Available in Various Academic Staff Colleges**

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of Academic Staff Colleges</th>
<th>Multimedia / Projector</th>
<th>Overhead Projector</th>
<th>Computers</th>
<th>Penaboard</th>
<th>Research Journal / Periodicals</th>
<th>Books / Reference Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ASC, University of Pune</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>2.</td>
<td>ASC, Sri Venkateswara University</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Available</td>
</tr>
<tr>
<td>3.</td>
<td>ASC, JNT University Hyderabad</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Available</td>
</tr>
<tr>
<td>4.</td>
<td>ASC, University of Madras</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>5.</td>
<td>ASC, University of Bangalore</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
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<td>Available</td>
</tr>
<tr>
<td>6.</td>
<td>ASC, LNIPE, Gwalior</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
</tbody>
</table>

It is evident from the table No. 13 two ASC's namely ASC Sri Venkateswara University and ASC, JNT University is not having Penaboard and Research Journals and Periodicals whereas the other ASC's have all required facilities.


**Discussion of Findings**

Findings of the study significantly justify the purposes and intentions of research scholars to take up such a noble research work. Findings have significantly revealed to a great extent the existing administrative setup, drawback and inherent strength of UGC Refresher Course planning and implementation.

Further research scholar is of view that the findings have provided better understanding about needs of UGC Refresher Course for Physical Education Teacher/Lecturer and highlighted priority/thrust areas that required follow-up actions.

To summarize in nutshell the idea on which the study was conceptualized, the criterion areas identified for evaluation and the most of purposes planned to investigate in the study have been accomplished to the best satisfaction of research scholar.

The three groups of subjects i.e. Course Participant, Course Director, based on whose critical and divergent opinion the Refresher Course was analyzed in depth.

Involvement of these three subjects groups conforms to product quality analysis in terms of administrator as planner and
producer, Resource Person as service provider, participants as consumer and course as product.

Hence findings of this about U.G.C. Refresher Courses standard and quality etc. are scientific, authentic and true to the fact and should have mass acceptability.

The most basic and fundamental observation inferred from statistical findings reveals - overwhelming majority of course participants strongly agrees and justifies that Refresher Courses are essential for knowledge up-gradation, and the schemes should continue for teachers. A divergent view was observed in terms of making it compulsory by aligning with promotions. However, majority did agree that it should be compulsory and must have promotion conditions as presently exist.

A few percentages opining against compulsory provisions inspite of being agreeing that U.G.C. Refresher Courses are essential for knowledge up-gradation of teacher is might be due to personal inconvenience.

In this connection Research Scholar is of view that considering of present scenario and worth of the program,
implementation with compulsory service promotion condition is best way to ensure maximum participation.

Opinions of participants further reveals quite a significant majority modestly agreeing or accepting that U.G.C. Refresher Course they attended have improved their teaching skills and professional competency. Course content were satisfactory in modest way in terms of covering relevant and important issues and areas of profession.

Participant were also of view that they modestly agree to fact that Resource Persons were of good standard, their teaching methodology, quality of boarding facility at the centre and day to day program were of satisfactory level.

Majority agreeing only to modest level establishes the fact that U.G.C. Refresher Course for Physical Education were though satisfactory it still have great scope to improve in terms of -

- Quality of Resource Persons
- Professional touch of content of course
- Methodology of program
- Practical relevance of course content
- Boarding facility etc.
Further participants have suggested with majority opining that course content should emphasis on new and emerging areas of graduate and post-graduate syllabus, thrust areas, research training etc.

In this regard Research Scholar would like to comment that such view justifies the urge of knowledge up-gradation and research scholar would also like to bring these suggestions to policy planner and A.S.C. Directors.

In addition to above overwhelming majority opined that they are satisfied with training of use of teaching gadgets and use of computer. Majority also suggested computer training should be regular part of course content.

Above observation implies that from the point of training in teaching gadgets and Aids and computer training U.G.C. Refresher Course have risen up to expectations of participants.

Analysis of ASC Director's opinion revealed vindication of many of participant's observations. Based on Director's opinions following observations were inferred.

- Refresher Courses are effectively serving its purposes.
- The outcome of Refresher Courses of Physical Education justifies amount of resource spent on it.

- Fund allocation amounts are modest to meet the requirement of center.

- Fund shortage problem does exist with modest to great frequency.

- Existing infrastructure is just enough to run as ASC Center.

Majority of Director's are also of opinion that Lecturer/Sports Officer to attend U.G.C. Refresher Course due to promotional requirements.

Above observations implies that Refresher Course are worth continuing inspite of having frequent fund/resources problem A.S.C's are efficiently managing U.G.C. Courses. Infrastructures with A.S.C. are just manageable to run courses. There is urgent need to add to facilities and infrastructure.

It is evident from the view of Directors that the U.G.C. Refresher Course being made compulsory requirement for promotion justifies the policy to ensure participation.
Further from analysis of Directors diverse opinion it is also evident that -

UGC Refresher Courses in Physical Education in terms of having Seminar/Workshop, computer training, examination, grading, feed back mechanism, follow up on feed back, it have strictly followed U.G.C. laid guideline and maintained standard.

An opinion also shows divergent views in availability of quality Resource Person though majority opined best available Resource Person was involved.

A just majority 58.3% opined having no problem in getting service of quality Resource Person. While 41.6% which is also significant percentage opined having problem of getting service of quality Resource Persons.

This implies that significant numbers of A.S.C's availing service of quality Resource Persons are big problem. There by the quality of refresher courses is bound to get affected. This has been vindicated by participants of courses also.

Statistical analysis of opinions of Resource Persons overwhelming establishes the worth and need of Refresher Courses
for Physical Education, Lecturers/Officers for continuous up-
gradation of knowledge.

On their own assessment about themselves Resource Persons
have overwhelming justified that -

- They render latest knowledge of the field.
- They fulfill candidate's expectations.
- They keep themselves abreast with latest information of
  the field.
- What they provide is of immense practical value.
- Participants are not receptive to what they teach.
- They are satisfied with honorarium, accommodation and
  standard of A.S.C. they have visited.

The most significant inferences that can be drawn from
above is on their self rating Resource Person have graded
themselves extremely knowledgeable and capable, but - the
admission that - participants are not attentive may point to the fact
that Resource Persons were not able to involve or sustained the
interest and attention of participants. Thus is in other word might
imply that it is failure of their teaching methodology or participants
did not find some thing of their interest in teaching of Resource
Person. Hence the quality of Resource Person remains a question.
Comparison of Budgetary Allocation year-wise reveals between 2000 to 2005, grants allocation and released year-wise have been different.

While year 2001 and 2002 showed a minimum of 21.87% and 53.84% increase from previous year indicating significant financial support. These two years also shows actual fund release higher than allocated amounts.

In year 2003 out of allotted amount 3000 Lac only 2124 Lac was released in actual term. An almost 29% decrease. Similarly in the year 2004 allotted amount was 2800 Lac and out of which 2468 was released. Which stands at 16.1% less. Again in the year 2005 allotted amount was 2000 Lac which was 28.5% less than previous year.

This shows erratic financial assistance from U.G.C. leading to conclusions that fund crunches expressed by ASC Directors very well justifies.

**Discussion of Hypotheses**

Based on the findings of the study the hypothesis formulated earlier that the study will significant reveals the drawback melodies and inefficiency factor in course implementation is accepted.

Further, the hypotheses that study will reveal worth of refresher courses for professional development in Physical Education is also accepted. In addition to this the third hypothesis that standard of refresher course will be known is also accepted.