CHAPTER 6

DESIGN & DEVELOPMENT OF DEMO PACKAGES

The aim of this chapter to provide basic information about design of demo packages with the help of Macromedia Flash Program, System requirements for this program, along with user manuals created by researcher & feedback taken by researcher has analyzed & presented.

6.1 INTRODUCTION

Present study is based on the Faculty of Science in BAMU. There are 10 Science Departments in the campus of BAMU. All these departments are included in the population. Researcher had analyzed & tabulated the 312 questionnaire filled in by respondents, in that researcher found that respondents were unable to retrieve e-information, accessibility of e-information was poor, therefore they needed training for accessing e-information, using advance search for retrieval of e-information. Hence researcher developed E-Information Literacy demo packages viz.

6.2 MACROMEDIA FLASH

Flash is a program by Macromedia for creating interactive, animated online content. Animated simply means "to have movement" -- Flash content does not have to be a cartoon. It is commonly used to mimic software interface elements such as scroll bars, drop-down menus, buttons, and navigational systems. The term "Flash" has also come to mean the actual files created using Macromedia's program of the same name.

6.1.1 System Requirements

Hardware

Macromedia has tested Macromedia Flash Player 8 extensively on the following minimum hardware configurations:
<table>
<thead>
<tr>
<th>Windows</th>
<th>Macintosh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Pentium® II 450MHz or faster processor (or equivalent)</td>
<td>PowerPC® G3 500MHz or faster processor</td>
</tr>
<tr>
<td>128MB RAM</td>
<td>128MB RAM</td>
</tr>
</tbody>
</table>

- **Operating systems and browsers**

  Flash Player 8 is supported on the following operating systems and browsers:

<table>
<thead>
<tr>
<th>Windows</th>
<th>Browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft® Windows® 98</td>
<td>Microsoft Internet Explorer 5.5, Firefox 1.x, Mozilla 1.x, Netscape 7.x or later, AOL 9, Opera 7.11 or later</td>
</tr>
<tr>
<td>Windows Me</td>
<td>Microsoft Internet Explorer 5.5, Firefox 1.x, Mozilla 1.x, Netscape 7.x or later, AOL 9, Opera 7.11 or later</td>
</tr>
<tr>
<td>Windows 2000</td>
<td>Microsoft Internet Explorer 5.x, Firefox 1.x, Mozilla 1.x, Netscape 7.x or later, CompuServe 7, AOL 9, Opera 7.11 or later</td>
</tr>
<tr>
<td>Windows XP</td>
<td>Microsoft Internet Explorer 6.0, Firefox 1.x, Mozilla 1.x, Netscape 7.x or later, CompuServe 7, AOL 9, Opera 7.11 or later</td>
</tr>
<tr>
<td>Windows Server™ 2003</td>
<td>Microsoft Internet Explorer 6.0, Firefox 1.x, Mozilla 1.x, Netscape 7.x or later, CompuServe 7, AOL 9, Opera 7.11 or later</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Macintosh</th>
<th>Browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mac OS X v.10.1.x, 10.2.x, 10.3.x, or 10.4.x</td>
<td>Microsoft Internet Explorer 5.2, Firefox 1.x, Mozilla 1.x, Netscape 7.x or later, AOL for Mac OS X, Opera 6, Safari 1.x or later</td>
</tr>
</tbody>
</table>

- **Languages**

  Flash Player 8 is available in the following languages for the above operating systems and browsers: Chinese Simplified, Chinese Traditional, English, French, German, Japanese, Italian, Korean, and Spanish.

  Based on training needs of respondents demo packages were developed for tutorial on E-journals, E-books, ETD, OPAC & Subject Gateways by using Windows XP, Internet Explorer (IE) & Macromedia Flash 8 Program with the help
of English Language & Intel Pentium with 1GB RAM Platform. Each of the tutorials / demo packages have 3 parts i.e. Biological Science, Mathematical Science & Pure Sciences, each of the parts cover the strategy for General Search & Advance Search. The General Search covers Journal Homepage, Author Index, Abstract & Full Text in HTML / PDF format, while Advance Search uses Boolean Operators for Searching.

6.3 TRAINING WITH DEMO PACKAGE

6.3.1 Identification of the user sample & their familiarity

After analyzing the data collected from 312 respondents from Science departments. It was observed that 211 (67.63%) respondents were unable to retrieve e-information. From the 211 respondents 136 were chosen sample as per Krejcie & Morgan (Krejcie & Morgan, 1970) table for training. All the 136 respondents who were present for training were given feedback questionnaire. Of the 136 respondents 50 respondents returned feedback questionnaire duly filled in giving 36.76% response. The department wise breakup of M.Sc & Ph.D respondents is shown in table 6.3.1.1

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Name of The Department</th>
<th>M.Sc</th>
<th>Ph.D</th>
<th>Total</th>
</tr>
</thead>
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<td>1</td>
<td>Biochemistry</td>
<td>4</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
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<td>4</td>
<td>Chemical Technology</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>Computer Science &amp; IT</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>Environmental Science</td>
<td>4</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Mathematics</td>
<td>3</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>Physics</td>
<td>1</td>
<td>4</td>
<td>5</td>
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<td>Statistics</td>
<td>4</td>
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<td>5</td>
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<td>10</td>
<td>Zoology</td>
<td>2</td>
<td>3</td>
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<tr>
<td>Total</td>
<td></td>
<td>26</td>
<td>24</td>
<td>50</td>
</tr>
</tbody>
</table>

6.3.2 Training of users
With the tutorials on E-journals, E-books, ETD, OPAC & Subject Gateways along with user manual (Appendix – C) respondents were given training.

After the training the feedback questionnaire was distributed to all the participates i.e. M.Sc & Ph.D. Who were the present in the training hall. All the 136 respondents who were present for training were given feedback questionnaire. Of the 136 respondents 50 respondents returned feedback questionnaire duly filled in given 36.76% response. The responses received were analyzed & presented in respect of each tutorial.

6.4 FEED BACK ANALYSIS

The feedback analysis has been further divided under the headings…

- General Information
- Satisfaction Level with Tutorial on E-journals
- Satisfaction Level with Tutorial on E-books
- Satisfaction Level with Tutorial on ETD
- Satisfaction Level with Tutorial on OPAC
- Satisfaction Level with Tutorial on Subject Gateways

6.4.1 General Information

The following table indicates the general information about users i.e. department, gender, class & age group wise distribution of respondents. The analyzed data is presented in table 6.4.1.1

Annotation

It can be noted from the table 6.4.1.1 that
1. Of the total 50 respondents 40.00%, 30.00% & 30.00% respondents’ respectively from Biological, Mathematical & Pure Sciences subjects.
2. Of the total 50 respondents 26 (52.00%) from M.Sc & 24 (48.00%) from Ph.D respondents.
3. Of the total 312 respondents 29 (58.00%) from Male & 21 (42.00%) from Female respondents.

4. Of the total 312 respondents 40 (80.00%) from 22 – 33 age group, while 10 (20.00%) from 34 – 45 age group.

6.4.2 Satisfaction Level with Tutorial on E-journals

Respondents were asked about satisfaction level with using E-journal Tutorial. The responses received have been combine for all parts as well as search strategy of Tutorial on E-journals tabulated in table 6.4.2.1, 6.4.2.2, 6.4.2.3, 6.4.2.4, 6.4.2.5, 6.4.2.6, 6.4.2.7, 6.4.2.8, 6.4.2.9, 6.4.2.10, 6.4.2.11, 6.4.2.12, 6.4.2.13, 6.4.2.14, 6.4.2.15, 6.4.2.16 & 6.4.2.17.

Annotation

- It can be noted from the table 6.4.2.1 that of the 50 respondents 18% to 44%, 14% to 42%, 18% to 40%, 10% to 42% were either occasionally, frequently or highly satisfied regarding Publisher / Journal Homepage, General Search, Advance Search & Back Volumes of Journals respectively with the tutorial on E-journals.

- Satisfaction levels regarding various outcomes of tutorial on e-journals were significantly different (Chi Square Test, alpha 0.05) among the respondents. Satisfaction level regarding General Search was highest (402) followed by Publisher / Journal Homepage (396), Back Volumes of Journals (374), satisfaction level regarding Advance Search was lowest (370).

- It can be noted from the table 6.4.2.2 that of the 50 respondents 20% to 40%, 20% to 46.67% & 20% to 53.33% were either occasionally, frequently or highly satisfied regarding the Publisher / Journal Homepage aspect in tutorial on E-journals were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Publisher / Journal Homepage aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction
levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.2.3 that of the 50 respondents 15% to 45%, 6.67% to 80.00% & 20% to 46.67% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on E-journals were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding General Search aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.2.4 that of the 50 respondents 25% to 40%, 6.67% to 46.67% & 20.00% to 26.67% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on E-journals were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Advance Search aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.2.5 that of the 50 respondents 40% to 45%, 13.33% to 40.00% & 6.67% to 40.00% were either occasionally, frequently or highly satisfied regarding the Back Volumes of Journals aspect in tutorial on E-journals were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Back Volumes of Journals aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)
levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.2.6 that of the 50 respondents 26.93% to 34.61% & 20.84% to 54.16% were either occasionally, frequently or highly satisfied regarding the Publisher / Journal Homepage aspect in tutorial on E-journals were from M.Sc & Ph.D respectively.
- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).
- It can be noted from the table 6.4.2.7 that of the 50 respondents 23.07% to 50.00% & 4.16% to 50.00% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on E-journals were from M.Sc & Ph.D respectively.
- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).
- It can be noted from the table 6.4.2.8 that of the 50 respondents 11.54% to 26.92% & 25.00% to 50.00% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on E-journals were from M.Sc & Ph.D respectively.
- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).
- It can be noted from the table 6.4.2.9 that of the 50 respondents 11.54% to 42.30% & 8.34% to 50.00% were either occasionally, frequently or highly satisfied regarding the Back Volumes of Journals aspect in tutorial on E-journals were from M.Sc & Ph.D respectively.
- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).
It can be noted from the table 6.4.2.10 that of the 50 respondents 24.13% to 48.27% & 28.58% to 38.09% were either occasionally, frequently or highly satisfied regarding the Publisher / Journal Homepage aspect in tutorial on E-journals were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.2.11 that of the 50 respondents 17.24% to 44.83% & 9.53% to 52.38% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on E-journals were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.2.12 that of the 50 respondents 20.69% to 27.59% & 14.28% to 52.38% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on E-journals were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.2.13 that of the 50 respondents 10.34% to 34.48% & 9.52% to 61.90% were either occasionally, frequently or highly satisfied regarding the Back Volumes of Journals aspect in tutorial on E-journals were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.2.14 that of the 50 respondents 7.70% to 38.46%, 35.72% to 42.85%, 30.77% to 38.46%, 6.00% to 16.67%, 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the
Publisher / Journal Homepage aspect in tutorial on E-journals were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding Publisher / Journal Homepage aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.2.15 that of the 50 respondents 23.07% to 46.16%, 21.42% to 50.00%, 7.70% to 53.85%, 16.67% to 83.33%, 66.67% to 33.33% & 100.00% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on E-journals were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding General Search aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.2.16 that of the 50 respondents 7.70% to 23.07%, 14.28% to 35.75%, 15.38% to 53.85%, 16.67% to 66.66%, 33.33% to 33.33% & 100.00% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on E-journals were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding Advance Search aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.2.17 that of the 50 respondents 15.38% to 38.46%, 14.28% to 42.86%, 38.46% to 61.54%, 16.67% to 33.33%, 66.67% to 33.33% & 100.00% were either occasionally, frequently or highly satisfied regarding the Back Volumes of Journals aspect in tutorial on E-journals were
from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding Back Volumes of Journals aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

### 6.4.3 Satisfaction Level with Tutorial on E-books

Respondents were asked about satisfaction level with using E-books Tutorial. The responses received have been combine for all parts as well as search strategy of Tutorial on E-books tabulated in table 6.4.3.1, 6.4.3.2, 6.4.3.3, 6.4.3.4, 6.4.3.5, 6.4.3.6, 6.4.3.7, 6.4.3.8, 6.4.3.9, 6.4.3.10, 6.4.3.11, 6.4.3.12 & 6.4.3.13

#### Annotation

- It can be noted from the table 6.4.3.1 that of the 50 respondents 12% to 44%, 10% to 42%, 14% to 40% were either occasionally, frequently or highly satisfied regarding Find Title of E-books, Book Details & Full Text Book respectively with the tutorial on E-books.

- Satisfaction levels regarding various outcomes of tutorial on e-books were significantly different (Chi Square Test, alpha 0.05) among the respondents. Satisfaction level regarding Find Title of E-books was highest (420) followed by Book Details (400), satisfaction level regarding Full Text Book was lowest (382).

- It can be noted from the table 6.4.3.2 that of the 50 respondents 20.00% to 40.00%, 20.00% to 46.67% & 20.00% to 53.33% were either occasionally, frequently or highly satisfied regarding the Find Title of E-books aspect in tutorial on E-books were from Biological Science, Mathematical & Computer Science & Pure Science respectively.
The distribution of satisfaction levels regarding Find Title of E-books aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.3.3 that of the 50 respondents 15.00% to 45.00%, 6.67% to 80.00% & 20.00% to 46.67% were either occasionally, frequently or highly satisfied regarding the Book Details aspect in tutorial on E-books were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

The distribution of satisfaction levels regarding Book Details aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

It can be noted from the table 6.4.3.4 that of the 50 respondents 25.00% to 40.00%, 6.67% to 46.67% & 20.00% to 26.67% were either occasionally, frequently or highly satisfied regarding the Full Text Book aspect in tutorial on E-books were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

The distribution of satisfaction levels regarding Full Text Book aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

It can be noted from the table 6.4.3.5 that of the 50 respondents 23.07% to 42.30% & 33.33% to 66.67% were either occasionally, frequently or highly satisfied regarding the Find Title of E-books aspect in tutorial on E-books were from M.Sc & Ph.D respectively.
No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.3.6 that of the 50 respondents 15.38% to 38.46% & 4.16% to 66.68% were either occasionally, frequently or highly satisfied regarding the Book Details aspect in tutorial on E-books were from M.Sc & Ph.D respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.3.7 that of the 50 respondents 15.38% to 30.76% & 4.16% to 50.00% were either occasionally, frequently or highly satisfied regarding the Full Text Book aspect in tutorial on E-books were from M.Sc & Ph.D respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.3.8 that of the 50 respondents 17.24% to 44.83% & 4.77% to 52.38% were either occasionally, frequently or highly satisfied regarding the Find Title of E-books aspect in tutorial on E-books were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.3.9 that of the 50 respondents 10.34% to 41.37% & 9.54% to 42.85% were either occasionally, frequently or highly satisfied regarding the Book Details aspect in tutorial on E-books were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).
It can be noted from the table 6.4.3.10 that of the 50 respondents 13.80% to 41.37% & 14.28% to 38.09% were either occasionally, frequently or highly satisfied regarding the Full Text Book aspect in tutorial on E-books were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.3.11 that of the 50 respondents 15.39% to 38.46%, 7.14% to 50.00%, 46.15% to 53.85%, 33.33% to 66.67%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Find Title of E-books aspect in tutorial on E-books were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

The distribution of satisfaction levels regarding Find Titles aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.3.12 that of the 50 respondents 15.39% to 23.06%, 7.14% to 57.14%, 7.70% to 61.54%, 16.67% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Book Details aspect in tutorial on E-books were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

The distribution of satisfaction levels regarding Book Details aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.3.13 that of the 50 respondents 7.70% to 46.15%, 14.28% to 35.74%, 7.70% to 53.84%, 16.67% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied
regarding the Full Text Book aspect in tutorial on E-books were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding Full Text Book aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

6.4.4 Satisfaction Level with Tutorial on ETD

Respondents were asked about satisfaction level with using ETD Tutorial. The responses received have been combine for all parts as well as search strategy of Tutorial on ETD tabulated in table 6.4.4.1, 6.4.4.2, 6.4.4.3, 6.4.4.4, 6.4.4.5, 6.4.4.6, 6.4.4.7, 6.4.4.8, 6.4.4.9, 6.4.4.10, 6.4.4.11, 6.4.4.12, 6.4.4.13, 6.4.4.14, 6.4.4.15, 6.4.4.16, 6.4.4.17, 6.4.4.18, 6.4.4.19, 6.4.4.20 & 6.4.4.21.

Annotation

- It can be noted from the table 6.4.4.1 that of the 50 respondents 16% to 46%, 6% to 44%, 22% to 36%, 12% to 42% & 14% to 42% were either occasionally, frequently or highly satisfied regarding Search for ETD, General Search, Advance Search, Theses Details & Full Text of Theses respectively with the tutorial on ETD.

- Satisfaction levels regarding various outcomes of tutorial on ETD were significantly different (Chi Square Test, alpha 0.05) among the respondents. Satisfaction level regarding Search for ETD & General Search was highest (312) followed by Theses Details (304), Full Text of Theses (298), satisfaction level regarding Advance Search was lowest (286).

- It can be noted from the table 6.4.4.2 that of the 50 respondents 20.00% to 45.00%, 20.00% to 40.00% & 6.67% to 53.34% were either occasionally, frequently or highly satisfied regarding the Search for ETD aspect in tutorial on ETD were from Biological Science, Mathematical & Computer Science & Pure Science respectively.
The distribution of satisfaction levels regarding Search for ETD aspect of the
tutorial was found to be uniform among the various subject groups i.e. no
significant difference was found in distribution of satisfaction levels reported
by respondents from Biological, Mathematical & Computer Science, Pure
Science (Chi Square Test, alpha 0.05)

It can be noted from the table 6.4.4.3 that of the 50 respondents 10.00% to
40.00%, 40.00% to 40.00% & 6.67% to 53.33% were either occasionally,
frequently or highly satisfied regarding the General Search aspect in tutorial
on ETD were from Biological Science, Mathematical & Computer Science &
Pure Science respectively.

The distribution of satisfaction levels regarding General Search aspect of the
tutorial was found to be uniform among the various subject groups i.e. no
significant difference was found in distribution of satisfaction levels reported
by respondents from Biological, Mathematical & Computer Science, Pure
Science (Chi Square Test, alpha 0.05)

It can be noted from the table 6.4.4.4 that of the 50 respondents 15.00% to
20.00%, 40.00% to 40.00% & 26.67% to 33.33% were either occasionally,
frequently or highly satisfied regarding the Advance Search aspect in tutorial
on ETD were from Biological Science, Mathematical & Computer Science &
Pure Science respectively.

The distribution of satisfaction levels regarding Advance Search aspect of the
tutorial was found to be uniform among the various subject groups i.e. no
significant difference was found in distribution of satisfaction levels reported
by respondents from Biological, Mathematical & Computer Science, Pure
Science (Chi Square Test, alpha 0.05)

It can be noted from the table 6.4.4.5 that of the 50 respondents 5.00% to
40.00%, 20.00% to 33.33% & 20.00% to 53.33% were either occasionally,
frequently or highly satisfied regarding the Theses Details aspect in tutorial on
ETD were from Biological Science, Mathematical & Computer Science & Pure
Science respectively.
The distribution of satisfaction levels regarding Theses Details aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.4.6 that of the 50 respondents 20.00% to 40.00%, 13.33% to 46.67% & 6.67% to 53.33% were either occasionally, frequently or highly satisfied regarding the Full Text of Theses aspect in tutorial on ETD were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

The distribution of satisfaction levels regarding Full Text of Theses aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

It can be noted from the table 6.4.4.7 that of the 50 respondents 19.23% to 42.30% & 4.16% to 50.00% were either occasionally, frequently or highly satisfied regarding the Search for ETD aspect in tutorial on ETD were from M.Sc & Ph.D respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.4.8 that of the 50 respondents 3.85% to 42.30% & 8.32% to 54.16% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on ETD were from M.Sc & Ph.D respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.4.9 that of the 50 respondents 23.07% to 30.76% & 12.50% to 41.68% were either occasionally, frequently or highly
satisfied regarding the Advance Search aspect in tutorial on ETD were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.4.10 that of the 50 respondents 19.24% to 34.62% & 4.16% to 50.00% were either occasionally, frequently or highly satisfied regarding the Theses Details aspect in tutorial on ETD were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.4.11 that of the 50 respondents 19.24% to 38.46% & 8.32% to 45.84% were either occasionally, frequently or highly satisfied regarding the Full Text of Theses aspect in tutorial on ETD were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.4.12 that of the 50 respondents 20.69% to 48.27% & 9.52% to 42.85% were either occasionally, frequently or highly satisfied regarding the Search for ETD aspect in tutorial on ETD were from Male & Female respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.4.13 that of the 50 respondents 10.34% to 41.37% & 33.33% to 52.38% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on ETD were from Male & Female respectively.
No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.4.14 that of the 50 respondents 24.13% to 34.48% & 19.04% to 38.09% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on ETD were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.4.15 that of the 50 respondents 13.80% to 37.93% & 9.54% to 47.62% were either occasionally, frequently or highly satisfied regarding the Theses Details aspect in tutorial on ETD were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.4.16 that of the 50 respondents 17.24% to 41.37% & 9.52% to 42.86% were either occasionally, frequently or highly satisfied regarding the Full Text of Theses aspect in tutorial on ETD were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.4.17 that of the 50 respondents 15.39% to 38.46%, 14.28% to 57.14%, 15.39% to 53.85%, 33.33% to 66.67%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Search for ETD aspect in tutorial on ETD were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

The distribution of satisfaction levels regarding Search for ETD aspect of the tutorial was found to be uniform among the various age groups i.e. no
significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.4.18 that of the 50 respondents 7.70% to 38.46%, 28.58% to 50.00%, 7.70% to 53.85%, 33.33% to 66.67%, 33.33% & 100.00% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on ETD were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding General Search aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.4.19 that of the 50 respondents 23.06% to 38.46%, 14.28% to 42.86%, 30.76% to 69.24%, 16.67% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on ETD were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding Advance Search aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.4.20 that of the 50 respondents 23.06% to 30.76%, 14.28% to 50.00%, 38.46% to 46.15%, 16.67% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Theses Details aspect in tutorial on ETD were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding Theses Details aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported
by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.4.21 that of the 50 respondents 23.06% to 46.15%, 35.72% to 50.00%, 23.06% to 38.46%, 16.67% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Full Text of Theses aspect in tutorial on ETD were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding Full Text of Theses aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

### 6.4.5 Satisfaction Level with Tutorial on OPAC

Respondents were asked about satisfaction level with using OPAC Tutorial. The responses received have been combine for all parts as well as search strategy of Tutorial on OPAC tabulated in table 6.4.5.1, 6.4.5.2, 6.4.5.3, 6.4.5.4, 6.4.5.5, 6.4.5.6, 6.4.5.7, 6.4.5.8, 6.4.5.9, 6.4.5.10, 6.4.5.11, 6.4.5.12, 6.4.5.13, 6.4.5.14, 6.4.5.15, 6.4.5.16, 6.4.5.17, 6.4.5.18, 6.4.5.19, 6.4.5.20 & 6.4.5.21.

**Annotation**

- It can be noted from the table 6.4.5.1 that of the 50 respondents 18% to 42%, 12% to 42%, 10% to 46%, 6% to 50% & 14% to 40% were either occasionally, frequently or highly satisfied regarding Library OPAC, General Search, Advance Search, Book Details & Location respectively with the tutorial on OPAC.

- Satisfaction levels regarding various outcomes of tutorial on OPAC were significantly different (Chi Square Test, alpha 0.05) among the respondents. Satisfaction level regarding General Search was highest (324) followed by
Advance Search (310), Location (294), Library OPAC (292), satisfaction level regarding Book Details was lowest (272).

- It can be noted from the table 6.4.5.2 that of the 50 respondents 20.00% to 40.00%, 13.33% to 40.00% & 20.00% to 46.67% were either occasionally, frequently or highly satisfied regarding the Library OPAC aspect in tutorial on OPAC were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Library OPAC aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.5.3 that of the 50 respondents 15.00% to 50.00%, 6.67% to 53.33% & 13.33% to 40.00% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on OPAC were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding General Search aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.5.4 that of the 50 respondents 5.00% to 45.00%, 20.00% to 40.00% & 6.67% to 46.67% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on OPAC were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Advance Search aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported
by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.5.5 that of the 50 respondents 5.00% to 45.00%, 40.00% to 53.33% & 13.33% to 53.33% were either occasionally, frequently or highly satisfied regarding the Book Details aspect in tutorial on OPAC were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Book Details aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.5.6 that of the 50 respondents 10.00% to 40.00%, 20.00% to 40.00% & 13.33% to 40.00% were either occasionally, frequently or highly satisfied regarding the Location aspect in tutorial on OPAC were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Location aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.5.7 that of the 50 respondents 19.24% to 30.76% & 8.32% to 54.16% were either occasionally, frequently or highly satisfied regarding the Library OPAC aspect in tutorial on OPAC were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.5.8 that of the 50 respondents 19.23% to 46.15% & 4.16% to 58.33% were either occasionally, frequently or highly
satisfied regarding the General Search aspect in tutorial on OPAC were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.5.9 that of the 50 respondents 15.40% to 34.60% & 4.16% to 54.16% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on OPAC were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.5.10 that of the 50 respondents 7.70% to 42.30% & 4.16% to 58.33% were either occasionally, frequently or highly satisfied regarding the Book Details aspect in tutorial on OPAC were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.5.11 that of the 50 respondents 15.38% to 38.46% & 12.50% to 45.84% were either occasionally, frequently or highly satisfied regarding the Location aspect in tutorial on OPAC were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.5.12 that of the 50 respondents 17.24% to 34.48% & 19.04% to 52.38% were either occasionally, frequently or highly satisfied regarding the Library OPAC aspect in tutorial on OPAC were from Male & Female respectively.
No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.5.13 that of the 50 respondents 6.88% to 44.83% & 19.04% to 38.09% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on OPAC were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.5.14 that of the 50 respondents 10.34% to 48.27% & 9.52% to 47.62% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on OPAC were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.5.15 that of the 50 respondents 3.44% to 55.17% & 9.52% to 42.85% were either occasionally, frequently or highly satisfied regarding the Book Details aspect in tutorial on OPAC were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.5.16 that of the 50 respondents 10.34% to 41.37% & 19.04% to 47.62% were either occasionally, frequently or highly satisfied regarding the Location aspect in tutorial on OPAC were from Male & Female respectively.

No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).
● It can be noted from the table 6.4.5.17 that of the 50 respondents 23.06%, 14.28% to 42.86%, 7.70% to 46.15%, 16.67% to 66.66%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Library OPAC aspect in tutorial on OPAC were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

● The distribution of satisfaction levels regarding Library OPAC aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

● It can be noted from the table 6.4.5.18 that of the 50 respondents 23.06% to 38.46%, 7.14% to 50.00%, 7.70% to 46.15%, 16.67% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on OPAC were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

● The distribution of satisfaction levels regarding General Search aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

● It can be noted from the table 6.4.5.19 that of the 50 respondents 23.06% to 30.77%, 7.14% to 50.00%, 46.15% to 53.85%, 50.00%, 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on OPAC were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

● The distribution of satisfaction levels regarding Advance Search aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).
It can be noted from the table 6.4.5.20 that of the 50 respondents 23.06% to 46.15%, 14.28% to 50.00%, 7.70% to 46.15%, 33.33% to 66.67%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Book Details aspect in tutorial on OPAC were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

The distribution of satisfaction levels regarding Book Details aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.5.21 that of the 50 respondents 7.70% to 38.46%, 21.42% to 35.72%, 23.06% to 61.54%, 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Location aspect in tutorial on OPAC were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

The distribution of satisfaction levels regarding Location aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

**6.4.6 Satisfaction Level with Tutorial on Subject Gateways**

Respondents were asked about satisfaction level with using Subject Gateways Tutorial. The responses received have been combine for all parts as well as search strategy of Tutorial on Subject Gateways tabulated in table 6.4.6.1, 6.4.6.2, 6.4.6.3, 6.4.6.4, 6.4.6.5, 6.4.6.6, 6.4.6.7, 6.4.6.8, 6.4.6.9, 6.4.6.10, 6.4.6.11, 6.4.6.12 & 6.4.6.13.

**Annotation**

It can be noted from the table 6.4.6.1 that of the 50 respondents 14% to 42%, 4% to 40%, & 10% to 40% were either occasionally, frequently or highly
satisfied regarding Publisher / Journal Homepage, General Search & Advance Search respectively with the tutorial on Subject Gateways.

- Satisfaction levels regarding various outcomes of tutorial on e-journals were significantly different (Chi Square Test, alpha 0.05) among the respondents. Satisfaction level regarding Publisher / Journal Homepage was highest (310) followed by General Search (290), satisfaction level regarding Advance Search was lowest (282).

- It can be noted from the table 6.4.6.2 that of the 50 respondents 15.00% to 45.00%, 20.00% to 40.00% & 6.67% to 46.67% were either occasionally, frequently or highly satisfied regarding the Publisher / Journal Homepage aspect in tutorial on Subject Gateways were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Publisher / Journal Homepage aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.6.3 that of the 50 respondents 5.00% to 40.00%, 40.00% to 40.00% & 6.67% to 40.00% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on Subject Gateways were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding General Search aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05)

- It can be noted from the table 6.4.6.4 that of the 50 respondents 10.00% to 45.00%, 13.33% to 40.00% & 6.67% to 33.33% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial
on Subject Gateways were from Biological Science, Mathematical & Computer Science & Pure Science respectively.

- The distribution of satisfaction levels regarding Advance Search aspect of the tutorial was found to be uniform among the various subject groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from Biological, Mathematical & Computer Science, Pure Science (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.6.5 that of the 50 respondents 23.07% to 42.30% & 4.16% to 54.16% were either occasionally, frequently or highly satisfied regarding the Publisher / Journal Homepage aspect in tutorial on Subject Gateways were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.6.6 that of the 50 respondents 7.70% to 30.76% & 41.68% to 50.00% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on Subject Gateways were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.6.7 that of the 50 respondents 15.38% to 34.62% & 4.16% to 45.84% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on Subject Gateways were from M.Sc & Ph.D respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from M.Sc & Ph.D Students (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.6.8 that of the 50 respondents 20.69% to 48.27% & 4.77% to 57.14% were either occasionally, frequently or highly
satisfied regarding the Publisher / Journal Homepage aspect in tutorial on Subject Gateways were from Male & Female respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.6.9 that of the 50 respondents 3.44% to 37.94% & 4.77% to 42.85% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on Subject Gateways were from Male & Female respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.6.10 that of the 50 respondents 17.24% to 41.37% & 38.09% to 47.62% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on Subject Gateways were from Male & Female respectively.

- No significant difference was found in distribution of satisfaction levels reported by respondents from both gender i.e. Males & Females (Chi Square Test, alpha 0.05).

- It can be noted from the table 6.4.6.11 that of the 50 respondents 15.39% to 38.46%, 14.28% to 50.00%, 38.46% to 61.54%, 16.67% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Publisher / Journal Homepage aspect in tutorial on Subject Gateways were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

- The distribution of satisfaction levels regarding Publisher / Journal Homepage aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).
It can be noted from the table 6.4.6.12 that of the 50 respondents 7.70% to 23.06%, 7.14% to 35.72%, 46.15% to 53.85%, 33.33% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the General Search aspect in tutorial on Subject Gateways were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

The distribution of satisfaction levels regarding General Search aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

It can be noted from the table 6.4.6.13 that of the 50 respondents 7.70% to 75.85%, 28.58%, 46.15% to 53.85%, 33.33% to 50.00%, 33.33% to 66.67% & 100.00% were either occasionally, frequently or highly satisfied regarding the Advance Search aspect in tutorial on Subject Gateways were from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age group respectively.

The distribution of satisfaction levels regarding Advance Search aspect of the tutorial was found to be uniform among the various age groups i.e. no significant difference was found in distribution of satisfaction levels reported by respondents from 22 – 25, 26 – 29, 30 – 33, 34 – 37, 38 – 41 & 42 – 45 age groups were significantly different (Chi Square Test, alpha 0.05).

6.4 Conclusion

Present chapter is based on design & development of demo packages. It has covered the Macromedia Flash program, E-Information Literacy Tutorials, User Manuals & Feedback analysis presented in tabular form. The data collected from the respondents through the questionnaire was tabulated and analyzed. Results & findings of present study are covered in Chapter 7.
REFERENCES