Appendix

Annexure – I : Questionnaire

Research Title: “Design and Evaluation of E-Learning System: A Case Study of MCA Institutes in Maharashtra”

Section ‘A’

Personal Details:

1) Name of Respondent:______________________________________________________________

2) Class: ________ 3) Marks secured in last exam ________ %

4) Age: ______________________

5) Select (✓) gender:  ○ Male  ○ Female

6) Telephone / Mobile Number: ________________________________

7) Email Id: ________________________________

8) Address of Respondent: __________________________________________________________
   ______________________________________________________________________________

9) Please mention your Graduation Degree. ________________________________

10) What was your specialization at Degree Course? ________________

11) Give the name of institute where respondent is pursuing MCA degree:
   ______________________________________________________________________________

12) Give the name of affiliated university: ________________________________

13) Address of institute ________________________________
    ______________________________________________________________________________
14) Contact number of institute: ________________________________

15) Please specify email or website name of institute. ____________

Section ‘B’

Other details:

16) Which type of courses does your institute offer? (Select ✓ any one option)

   a) Regular Courses
   b) Distance Learning Courses
   c) Online Courses
   d) None of these
   e) Any other ________________________________

17) Select ✓ your interested area for subject specialization.

   a) Programming Languages       b) Database Management System
   c) Networking                   d) Web-based Solutions
   e) System Testing               f) System Analysis & Design
   g) Mobile-based Solutions       h) Enterprise Resource Planning

   Please specify any other        ________________________________

18) Indicate the reasons for using IT tools in academics.

   (Select ✓ any one option)

   a) As a part of course curriculum i.e. Laboratory Work
   b) For additional study.
   c) Academic ERP system.

   Specify any other ________________________________
19) Give the ratings for using E-learning tools in the study of MCA subjects?

(Select ✓ any one option)

a) Very frequently
b) On regular basis
c) Sometimes
d) Occasional
e) Never

20) How do you access the E-learning material through?

(Select ✓ any one option)

a) Desktop
b) Laptop
c) Tabs
d) Smartphone

21) What is the frequency of using E-learning tools on hourly basis?

(Select ✓ any one option)

a) Upto 3  b) 3 – 5  c) > 5

22) How do you rate the importance of E-learning Tools in pursuing MCA course?

(Select ✓ any one option)

a) Outstanding  b) Good
c) Poor  d) Average
23) Do you use social networking web sites for E-learning purpose? Yes / No
   If yes please specify ____________________________________________

23) Identify the three subjects required to be included in E-learning Model.
   (Select ✓ any three option)
   a) Programming in C & C++  b) Computer Graphics
   c) Networking                d) Database Management System
   e) Software Engineering      f) Mobile Computing
   g) Discrete Mathematics      h) Probability & Combinations
   i) Operating System         j) Java
   k) Data mining & Data warehousing  l) Enterprise Resource Planning
   m) E-commerce               n) Software Project Management
   o) Dot NET                  p) Computer Organization & Architecture
   q) Data Structures          r) Computer Communication Network
   s) Soft Skill Development   t) Accounting & Management Control

24) Do you agree that E-learning is most effective learning tool?
   (Select ✓ any one option)
   a) Strongly Agree          b) Agree
   c) Can not say              d) Disagree
   e) Strongly Disagree
25) Do you agree that E-learning supports in understanding complex phenomena in simple way?

(Select ✓ any one option)

a) Strongly Agree       b) Agree

c) Can not say           d) Disagree

e) Strongly Disagree

26) Do you agree that E-learning is a costly learning tool?

(Select ✓ any one option)

a) Strongly Agree       b) Agree

c) Can not say           d) Disagree

e) Strongly Disagree

27) Does your institute provide any E-Learning technique / facilities? Yes / No

If yes, select ✓ from followings.

a) Social Networking
b) Email

c) Chat room
d) Video Conferencing
e) Virtual class room
f) Discussion board
g) Bulletin board
h) SCORM (Sharable Content Object Reference Model)
i) Online examination
j) Web portals
28) Select ✓ any three most applicable provisions for E-learning Model from following.
   a) Learning at ease
   b) Flexibility
   c) 24x7 use
   d) Sophistication
   e) Quick access
   f) Repetition
   g) User interface
   h) Interactive
   i) Graphics & animations
   j) Online help
   k) Quick reference

29) Which platform you feel suitable for E-learning? (Select ✓ any one option)
   a) Windows
   b) Open Source (Linux)
   c) Android
   e) Any other _______________

31) What features you would like to have in E-learning Model for MCA course?
   a) Text
   b) Audio/Video support
   c) Animation
   d) Graphics
   e) Power Point Presentation
   f) Notes
   g) E-books
   h) Project support
   i) Programs
   j) Algorithm
   k) Online Examination
   l) Evaluation & feedback
   m) Online Syllabus
   n) Downloading facility
   o) Current Updates
   Any other ________________________
32) Please rank in order of importance the following communication methods to support elements for E-learning. (Select any three options as per rank I, II, III)

   a) Face to face communication
   b) Class room method
   c) Workshop
   d) Seminars
   e) Video conferencing
   f) Web-based tools
   g) Synchronous method (Online interaction)
   h) Asynchronous method (Offline interaction)
   g) Any other method

33) Does your institute encourage for using E-learning tools? Yes / No

   If yes, select ✓ any one option from followings.

   a) Very encouraging
   b) Encouraging
   c) Seldom encouraging

34) To what extent do you agree about institutional overall support for E-learning? (Select ✓ any one option)

   a) Outstanding
   b) Good
   c) Average
   d) Poor
35) Please choose ✓ any three of the following key challenges that your institute faces in supporting students in their use of technology.

a. Responding to increasing technical support demands from students.
b. Responding to increasing pedagogical support demands from students.
c. Responding to seminar or workshop organized by other institutes or university.
d. Maintaining current technical infrastructure.
e. Securing adequate funding to handle demand.
f. Maintaining a standard network or platform.
g. Providing 24x7 supports.
h. Upgrading classroom to enable technology.
i. Upgrading of IT tools and techniques required for course.
j. Students lack of knowledge.
k. Lack of adequate e-learning tools
l. Lack of online training

36) What factors would be important to you in choosing E-learning tools?

a) Quality Material
b) Reliability of Technology
c) Quick Accesses
d) Mobility

37) Do you agree that the E-learning improves retention ability of student?

(Select any one ✓ option)
a) Strongly Agree      b) Agree   c) Can not say   d) Disagree
e) Strongly Disagree
38) Do you agree that being MCA students the learning should be completely in e-oriented format? (Select any one option)
   a) Strongly Agree           b) Agree
   c) Cannot say               d) Disagree
   e) Strongly Disagree

39) Do you agree that E-learning tool supports for getting quality education?
   (Select any one option)
   a) Strongly Agree           b) Agree     c) Cannot say
   d) Disagree                 e) Strongly Disagree

40) Do you agree that E-learning is an enabler of higher education?
   (Select any one option)
   a) Strongly Agree           b) Agree
   c) Cannot say               d) Disagree
   e) Strongly Disagree

Date:

Place:                                      Signature of Respondent
Annexure – II : Feedback Form


1) Name of Student: ________________________________

2) Class: ________________________________

3) Gender:  
   1) Male  
   2) Female

4) Institute Name: ________________________________

5) Institute Address: ________________________________

6) Mobile Number: ________________________________

7) Email – ID: ________________________________

8) Rate overall feedback about quality in present developed E-learning Model.
   a) Excellent
   b) Very Good
   c) Average
   d) Not Satisfactory

9) Response about Features in present developed E-learning Model
   Please rate each parameter at a max score of 10.

<table>
<thead>
<tr>
<th>Sno.</th>
<th>Parameter</th>
<th>Score out of 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ease of Learning</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Visual Attractive</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Quality of Course Material</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Quick Access</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Online Examination</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Downloading Facility</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Current Updates</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Screens &amp; Layouts</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Images &amp; Text</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Evaluation Report</td>
<td></td>
</tr>
</tbody>
</table>

Max (100)
10) Do you agree that this E-learning Model will enhance your performance?  
(Select ✓ any one option)

a) Strongly Agree  
b) Agree  
c) Cannot say  
d) Disagree  
e) Strongly Disagree

11) Which subject in the model you have tested in detail? (Select ✓ option )

a) Programming in C & C++  
b) Computer Graphics  
c) Networking  
d) Database Management System  
e) Software Engineering  
f) Mobile Computing  
g) Discrete Mathematics  
h) Probability & Combinations  
i) Operating System  
j) Java  
k) Data mining & Data warehousing  
l) Enterprise Resource Planning  
m) E-commerce  
n) Software Project Management  
o) Dot NET  
p) Computer Organization & Architecture  
q) Data Structures  
r) Computer Communication Network  
s) Soft Skill Development  
t) Accounting & Management Control

12) Remark on following features which you have observed in present developed E-learning Model. (Select ✓ option)

a) Complete study material  
b) All formal support  
c) Prompt evaluation & feedback  
d) Report on mail id

13) Did you try online exam option? Yes / No (Select ✓ any one option )

If yes, rate your view / opinion on the following options.

a) Very Good  
b) Good  
c) Average  
d) Not Satisfactory.
14) Did you find questions are relevant and appropriate of the questions presented in Online Examination?
(Select ✓ any one option)
   a) Strongly Agree
   b) Agree
   c) Cannot say
   d) Disagree
   e) Strongly Disagree

15) Please select ✓ any one option for giving feedback about online exam evaluation report.
   a) Excellent
   b) Very Good
   c) Average
   d) Not Satisfactory
   Any other remark ________________________________

16) Do you agree that E-learning systems are more effective than traditional learning systems? (Select ✓ any one option)
   1) Yes, Fully
   2) Somewhat
   3) Naturally
   4) Not much
   5) Strongly Disagree

17) Do you think that this E-learning model helps in getting more knowledge?
(Select ✓ any one option)
   1) Yes, Fully
   2) Somewhat
   3) Naturally
   4) Not much
   5) Strongly Disagree
18) Would you recommend this E-learning Model to others?
   (Select ✓ any one option)
   a) Yes
   b) Often
   c) Somewhat
   d) No

19) How do you rate the security & privacy in developed E-learning Model?
   (Select ✓ any one option)
   a) Excellent
   b) Very Good
   c) Average
   d) Not Satisfactory

20) Give the opinion about fulfilling overall expectations in present developed E-learning Model.

   (Select ✓ any one option)
   a) Yes, fully
   b) Somewhat
   c) Neutrally
   d) Not much

21) How do you find the quality of information in this E-learning model?
   (Select ✓ any one option)
   a) Excellent
   b) Very Good
   c) Average
   d) Not Satisfactory
22) Any other remark __________________________

______________________________

Date:

Place: __________________________ Signature of Respondent