Prerequisites: Search intelligence on Internet, technical writing skills and analytical skills.

Course Objective:
To provide an opportunity to the student to do exhaustive study, investigationand experiment on modified approaches in the domain of interest.

Paper No.: 040010507/040020311   [Lectures:0;Tutorial:0;Practical:4]
Subject: Dissertation

Course Outcomes:

The student will be able to,

CO1:   study in-depth area of interest in computer science/technology.

CO2:   analyze solution for theidentified problem.

CO3:   propose a solution for the identified problem.

CO4:   demonstrate the proposed solution.

CO5:   provide a conclusion of the work done which will be valuable extension of the solution of the concerneddomain.

1. **Introduction**

As a partial requirement for the award of the degree of M.C.A./MSc.(CA)at UkaTarsadia University, a dissertation submission will be carried out by students in their 4th and 5th semester of study.

The dissertation provides the students with the opportunity to analyze, design, under-take or conduct an independent piece of innovative work or study related to their area of interest under the guidance of a guide. It required a review of the literature on the subject matter, the investigation/planning and methodology, the results and findings, and concrete recommendations and conclusions which is to be present and discuss concisely and clearly.

2. **Time and Duration:**

    1. A student has to strictly follow the deadlines given from time to time.
    2. For better execution, dissertation work plan shall be prepared by the team and submitted to the dissertation guide within a maximum of 7 days of the start of the dissertation.
    3. In case, of failure to meet the deadlines, a student shall be restricted to appear in Internal/External Dissertation Viva.

3. **Team Constitute and Guide allocation:**
    1. Student shall continue with the same dissertation team as that fixed in the 4th semester.
    2. Student team shall continue their dissertation work on the topic fixed in the 4th semester.
    3. The guiding team shall be the same as that of allocated in the 4th semester.
    4. The change of guide shall be allowed only if that guide is no more associated with the institute.
    5. Re-allocation of the guide with respect to (4) shall be done by Dissertation Co-ordinator after approval by the Director.

4. **Reporting:**

   1. A student shall report about the progress in dissertation work to the dissertation guide atleast once a week.
   2. A student shall submit at least 3 dissertation summary reports to dissertation guide indicating his/her progress.
   3. For any query, a student can approach to the Dissertation Guide and Co-ordinator.
   4. A student shall maintain a log book to help them to plan their own dissertation and to record the outcomes timely. Following is the format of the log book.

   Record of Strategic Meetings with the Guide

Sr. No.	Date	Points Discussed/Suggested	Comments	Students' Signature	Guide's Signature

5. **Evaluation:**

   The weightage of CIE and University examination shall be as per the University regulations.
   Composition of CIE shall be

Assessment Code	Assessment Type	Duration of each	Each of marks	Occurrence	Weightage in CIE of 40 marks	Remark
A1	Presentation and Demonstration	30 mins	30	2	10 X 02 = 20	17-20/08/2015, 23-26/09/2015
A2	Dissertation Progress Report	-	10	3	05 X 03 = 15	30/07/2015, 15/08/2015, 30/09/2015
A3	Log book entries	-	Atleast 20	Atleast 2 in a week	05	

   If any of the submission seems plagiarized, then marks will be set to zero for that respective submission.

   A1 guidelines
   - During presentation, students may use their own laptop for presentation and demonstration of related work.
   - A student shall propose a solution for the problem identified.
   - Solution can be a minor or major modification to existing techniques and/or application of existing technique/methodology/approach in some new area.
   - Student comes with a demonstration, inputs must be given in suggestive mode rather than commenting mode.
   - Each presentation shall not exceed time limit of 30 minutes including Viva.
   - Guide of the dissertation presenting team will remain present at time of evaluation with other panel member(s).
   - After the presentations, panel member shall submit evaluationsheets soft copy and hard copy with signatures of all panel members with in given time to assigned person by RDC committee.
   - RDC committee will provide evaluation sheets in advance.

- Evaluating team members shall decide time and venue for the presentation and shall share the same with student teams.
- Once schedule is finalized by the evaluation panel, students are bound to give presentation within time schedule. No excuse of student is going to be considered at all.
- No make-up work shall be accepted for missed or failed presentation.
- First presentation shall be scheduled during **17th to 20th August, 2015.**
- Marks weighted for Presentation 1:

Parameter	Marks
Contribution in work	05
Literature Review	05
Clarity towards the work	05
Efforts towards the solution	05
Presentation Skill	05
Viva	05

- Second presentation shall be scheduled during **23rd to 26th September, 2015.**
- Marks weighted for Presentation 2:

Parameter	Marks
Contribution in work	05
Efforts towards Solution	05
Clarity of work to be done	05
Inclusion of previous suggestions	05
Presentation Skill	05
Viva	05

- Each report shall comprise of Class, Division, Team number, Students' name, Guide name.
- Marks weighted for Dissertation Progress Report-1:

Parameter	Marks	Remark
Flow/process toward implementation	05	Flow/process toward implementation shall includes: • Propose model and its description. • Platform/ tools/technology/algorithm to be used for implementation. • If test data as well as gold data, if it's applicable.
Viva	05	Viva of each team at the time of report submission by guide.

- Marks weighted for Dissertation Progress Report-2:

Parameter	Marks	Remarks
Partial implementation	05	It shall show the work progress regarding implementation. Partial implementation with analysis of experiments with test data.
Viva	05	Viva of each team at the time of report submission by guide.

- Marks weighted for Dissertation Progress Report-3:

Parameter	Marks	Remarks
Full implementation	05	Full implementation with experiment results and analysis.
Viva	05	Viva of each team at the time of report submission by guide.

Note: If the examiner feels that the dissertation work has not actually being done by the student then he/she can allot zero marks for the same.

5. Report

The dissertation work carried out during the term shall be submitted at the end of the 5thSemester in the form of a dissertation written by the student. The dissertation should be typed and may include relevant diagrams, figures, photographs, illustrations, tables and appendices. The dissertation should consist of preliminaries, main text and references/appendices.No plagiarism is allowed.

A. Preliminaries
The preliminaries should abide by the following order, wherever applicable:

➢ **Title Page**
The title page of the dissertation should be in format given in Annexure I.

➢ **Dissertation Certification Form**
[The form should be signed by programme co-ordinator.]The dissertation certification form should be in format given in Annexure II.

➢ **Declaration of Student as well as Guide Form**
[The form should be duly filled signed by the students and guide.] The declaration of student and guide should be in format given in Annexure III and IV.

➢ **Table of Contents**
The Table of Contents shall list in sequence with page numbers all chapters, sections/headings, sub-sections/headings and other sub-divisions of the dissertation, appendices, etc.

➢ **List of Tables, Figures, Schemes**
Separate lists of each, in the above order, giving number and page reference.

➢ **Abstract**
The abstract constitutes an up to one-page executive summary, which provides a brief outline of the objectives, scope of the dissertation, the methodology used, the main findings and results achieved and any conclusions and recommendations made.

➢ **List of Abbreviations**
This section should list in alphabetical order all abbreviations used in the dissertation.

B. Main Text
The main text of the dissertation should start with an introduction followed by chapters, subdivided into sections and sub-sections. Depending on the scope appropriate chapters may include amongst others:
1. Literature Review,
2. Methodology,
3. Experiments and Analysis
4. Conclusions
5. Future Enhancements
6. "Learning during Dissertation Work", i.e. "Experience of Journey during Dissertation Duration" [Limit up to two paragraphs]

Any table, figure, illustration included in the dissertation should be clearly labeled. The caption should be placed at the top of tables but below figures/illustrations.

C. Guideline for Report Formatting:

- Use A4 size page with 1" margin all sides
- Header should include Dissertation title and footer should contain page number and enrollmentnumbers
- Chapter Name should be of Cambria font, 20 points
- Main Heading should be of Cambria font, 16 points
- Sub Heading should be of Cambria font, 12 points, Italic
- Paragraph should be of Cambria font, 12 points
- Line spacing – 1.5, before - 0, after - 0
- No chapter number for references
- Before chapter 1, give page number in roman letter

D. References/Appendices

The list of references should follow the main text.

1. Documentation Reference Style: IEEE referencing standards shall be followed.

The appendices shall consist of any base material, which would break the flow of the dissertation due to its length or partial irrelevance. Some examples are:

1. Raw data
2. Survey sheets
3. Charts and data tables from books
4. Lengthy mathematical derivations

All appendices should be listed in sequence, i.e. Appendix 1, 2, 3, etc.

E. Physical format and layout

1. Certificate shall be collected from dissertation team during 29th September, 2015.
2. Hard Bound

Title Page:

Shrimad Rajchandra Institute of Management and Computer Application
Uka Tarsadia University

<<TITLE IN CAPITAL LETTERS>>

A Dissertation

Submitted By,

<<Student's Name (Enrollment Number)>>,

<<Student's Name (Enrollment Number)>>

----

in Partial Fulfillment of the Requirements

for 5th Semester of Masters in Computer Applications at

Shrimad Rajchandra Institute of Management and Computer Application,
Uka Tarsadia University,
Bardoli, Surat.

December, 2015.

Guided By,

<<Guide Name>>

Dissertation Certificate:

Shrimad Rajchandra Institute of Management and Computer Application

CERTIFICATE

This is to certify that the Dissertation entitled **<title>** is submitted by **student1 (enrollment no.), student2 (enrollment no.)** as the partial fulfillment for 5th semester of Masters in Computer Applications has been carried out at Shrimad Rajchandra Institute of Management and Computer Application in 2015.

Date :

Place:

Dr. Kalpesh Lad
Programme Coordinator

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Guide Declaration Form:

Shrimad Rajchandra Institute of Management and Computer Application

Guide's Declaration:

I <<Guide Name>> hereby certify that the work entitled <<Dissertation Title>> was prepared by **student name (<<Enrollment Number>>), student name (<<Enrollment Number>>) and student name (<<Enrollment Number>>)** was submitted as a partial fulfillment for the 5th Semester of Masters in Computer Applications, and the aforementioned work, to the best of my knowledge, is the said student's work. The matter embodied in this dissertation is not plagiarized.

Date: <<Signature of Guide>>
Place: <<Guide Name>>

The work entitled "<<Title>>", prepared by above named student(s) is evaluated and approved.

<<Signature of Guide>>   Examiner(s) name with Signature:
<<Guide Name>>   1.

                                                                  2.

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Student Declaration Form:

Shrimad Rajchandra Institute of Management and Computer Application

Students' Declaration:

We student name (<<Enrollment Number>>), student name (<<Enrollment Number>>), student name (<<Enrollment Number>>) hereby declare that the work entitled <<Title>> is our original work. We have not directly copied from any other students' work or from any other sources except where due reference or acknowledgement are made explicitly in the text.

Date:

<div align="right">

<<Student Signature>>
<<Student Name (Enrollment Number)>>

<<Student Signature>>
<<Student Name (Enrollment Number)>>

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