

GUIDELINES FOR MCA/M.Sc Data Analytics/M.Sc Cyber Security MINI PROJECT - 2021

The candidates are expected to carefully read the instructions given and follow them in the preparation of the project report. Non-compliance with any of these instructions may lead to the rejection of report submitted.

1. PROJECT

- Students are expected to undergo project work individually and submit individual project report in **any one of the three** methods:

- **Industry based Project** : Students are expected to submit a technical report based on an application of computers in any domain/sector. Either they can develop the application software or they may conduct a detailed study on the existing application software. The study in any domain on usage of computer techniques like database technology, networking structures, software engineering concepts by visiting an industry. The domains may include : Banking and Financial Services, Gems and Jewelleries, Agriculture, Telecommunications, Manufacturing, Hospitals, Hospitality Management, Tourism and any other. Care has to be taken that the domain is a **non-computer** domain.
- **Research Project** : A research project need to be carried out at a minor level. Research report containing the background study or literature review, problem identification, methodology, model or prototype, testing, results and discussions need to be submitted. A research paper out of the research work carried out has to be published in a journal. The research paper is a must.
- **Case Study Writing** : Student has to undergo a case writing exercise based on real time experience in an industry. Visit an industry of your choice and write a relevant case that underlines some valid computer application issue within the organization. The issue may be related to any of the phases in the software development life cycle applied to non-computer domain. The domains may include : Banking and Financial Services, Gems and Jewelleries, Agriculture, Telecommunications, Manufacturing, Hospitals, Hospitality Management, Tourism and any other. Care has to be taken that the domain is a **non-computer** domain.

2. REVIEW MEETING

- The students are to report to the guide to present their progress on **9th September 2021** (Thursday) and **7th October 2021** (Thursday).
- The students are expected to make a PowerPoint presentation on their project - objectives, work carried out so far design, development, output expected.
- Attendance for the project review is compulsory.

3. CASE WRITING

Writing cases is a challenging task, but the learning outcomes that stem from their use can be rewarding. The objective is to encourage industry academic interface so that the “real time” scenarios would enable for understanding the practical skills in the class.

Guidelines for the Case writing

- Please write the case in a narrative style. It should include what happened, who was involved, when it happened, why it happened, and how it happened. Details of the specific setting, descriptions of personalities, progressive disclosure of actions and problems or issues that evolve out of the case may be included.
- The case should be based out of a real life scenario from the organisation that you visited.
- A letter from the organisation stating that you visited the concern and interacted with the management should be attached along with the case.
- You may use fictitious names of organisation and persons while describing the case
- The central idea of the case and the supporting facts should be given in the case
- Please make sure that the case submitted should be free of any spelling, grammatical errors.
- The events and the actions of the case should be presented in a logical order
- The case should not exceed Fifteen pages (A4 size, back to back) with 3-5 annexure relevant to the case (Example : Training calendar of the firm, Sample feedback form)
- The case should be submitted both in hard and soft copies
- Proper Acknowledgements and References are to be given

4. PROJECT REPORT PREPARATION

The project report should be minimum of 10 pages and maximum of 15 pages. The format of the report is as follows:

1. Wrapper
2. Copy of the wrapper
3. Declaration by the candidate
4. Certificate
5. Acknowledgement
6. Table of contents
7. Chapters
8. Bibliography(in the alphabetical order of authors)

Instructions for Writing Reports

Formatting

- Project report should be typed / printed in 1.5 line space using A4 size bond papers with a left margin of column 10 and right margin of column 65.
- Table of contents should be in the specified format (Ref. Annexure I)
- Chapter headings should be in Times New Roman font size 16 and centered.
- The section heading and sub section heading be in Times New Roman font size 12, Bold and left aligned.
- The regular text should be in Times New Roman, font size 12.
- A page should not contain more than 25 lines.
- A paragraph should have a minimum of 7 lines.
- All pages should be numbered. The preliminary pages of the thesis (such as title page, acknowledgement, table of contents, etc) should be numbered in lowercase roman numbers

and pages of main text starting with chapter – 1 should be consecutively numbered in Arabic numbers.

- Sections should also be numbered along with the chapter number serially, For example, 3.1,3.2,3.3..... and should be in capital Letters
- It is preferable not to have more than 3 levels of sectioning.

3. Applications in Business

3.1 Banking Applications

3.1.1 Customer Interface

- The entire report should be in third person past participle (e.g. has been, had been). (i.e., I, We should be avoided)
- Avoid small sentences. A sentence need to be atleast one and half lines long.
- If you are writing small sentences, please see to that you combine related sentences using 'and', etc

Figures and Tables

- Every figure and table should be numbered along with the chapter number serially. For example Figure 3.1. Data Flow Diagram
- Naming the figure and Table: The first letter of every word in the figure and Table name should be in capital letter and figure name should be given at bottom of the figure, Table name at the top of the table.
- The figure and table should be referred in the text. For e.g. :Fig. 3.1. Shows the Data Flow Diagram of the system. Data Flow Diagram shows that the data from the inventory files flows to the stock generation report process.
- Figure or table should not cut across a page.
- For References /Bibliography, follow the standard formats as given at <http://www.aresearchguide.com/12biblio.html> or in Annexure I

Binding specifications

- Wrapper of the project report should be white in colour and report should be soft bound.
- Students are expected to submit 2 copies of project report and keep the original copy for their own usage. If they have to submit a copy to the organization then the students are expected to arrange for an additional copy apart from the above.

Certificate

A certificate from the Industry to which they have visited and carried out the study is to be enclosed.

Contents

The contents has to be well organized based on the various phases of the project / case undertaken.

5. BIBLIOGRAPHY

Book

1. BOOKS WITH ONE AUTHOR

Author's last name, Author's first name. Title. Place of publication: publisher, publication date.

Ex: Ricciuti, Edward R. What on Earth is a Capybara? Woodbridge, CT: Blackbirch, 1995.

2. Books with two authors

First Author's last name, First Author's first name, and Second Author's first name Second Author's last name. Title. Place of publication: publisher, publication date.

Ex: Chapman, Gillian and Pam Robson. Exploring Time. Brookfield, CT: Millbrook, 1994.

MAGAZINE OR NEWSPAPER ARTICLE

Author's last name, Author's first name. "Title of article," Name of magazine, date of magazine, page number(s).

Ex: Witkowski, Mary. "Ancient Kivas: Yesterday and Today," Cobblestone, September 1999, pp. 7-9

INTERNET

Author's last name, Author's first name. "Title of Document." (Online) Date the document was

written. URL (visited: Date of visit).

Ex: Salda, Michael. "Cinderella Project." (Online) December, 1997.

<http://www.dept.usm.edu/~engdept/cinderella/cinderella.html> (visited: December 8, 1999).

***** Best Wishes *****

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