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**PREFACE**

This document is prepared for B.Tech. (CSE), Students of School of Computer Engg. & Technology who are in the final year of the course and undertaking projects as a partial requirement for fulfillment of Bachelor of Technology degree under the University Dr. Vishwanath Karad MIT World Peace University. Students are required to carry out a final year project which includes functional implementation of their innovative ideas in the form of software programs which may include hardware also. This document is designed for the students for organization of their work with proper scheduling and containing authentication of the work. The project work includes: conduction of various experiments, demonstration or exhibition of the functions, several documents preparations including project report and technical paper writings etc.

During the assessment of the students’ project work various criteria are addressed which includes, finalization of problem statements or project topics, feasibility & scope of the project work, literature survey and results & analysis.

It is expected that all students and Guides show follow the guidelines and manual of the University rules before conducting any student project activities. All students are expected to have exposure to the new software and hardware environments for the requirements of their expected tasks. It is advised to all students to show a positive attitude and follow the ethics laid down by the University throughout this course.

**B.Tech. CapStone Project Course Outline: Stage-I ( Tri-XI )**

Teaching Scheme Examination Scheme Lab: 8 Hrs/Week (Trimester-11) Term Work: 200 Marks

| **Course Code** | CS423 |
| --- | --- |
| **Name of the Course** | Capstone Project: Stage I |
| **Trimester** | Trimester – XI |
| **Course Objectives :**  1. To apply knowledge of mathematics and fundamental concepts to formulate the problem statement 2. Understand the computing requirements to find its solution.  3. Understand key ethical and social issues affecting the problem statement  4. Incorporate SDLC to identify appropriate processes, components and make use modern engineering tools  5. To present orally ideas and concepts clearly in an organized manner | |
| **Course Outcomes :**  1. Survey the Literature to identify the research gap and need of the system.  2. Devise and formulate the problem statement.  3. Gather and analyze the system requirements.  4. Design, model and validate the system architecture.  **5.** Demonstrate ethical work standards and maintain documentation in an organized manner. | |

| **Course outline and policy :**  The Students will involve in groups and each group undertakes one project over the academic year. The project belongs to the area of Computer Science and Engineering comprises of steps such as the analysis, design of a system or sub system.  The students are included to form group of 4 students and all members of the group jointly work towards the implementation of the project. The selection of the project is based on the approval of review committee which may include guide also (Staff-member assigned).  The student project activity has some specific goals to fulfill the ability developments of the students to understand the feasibility of the project, planning project, studying existing systems, tools available to implement the project and state of art software testing procedures and technology with use of case tools.  Every group is required to submit interim project report at the end of the first term. The report should have the following details in it.  Introduction  ∙ Aims and objectives  ∙ Literature survey  ∙ Problem statement  ∙ Project Requirements  ∙ Proposed architecture/ high level design of the project  ∙ Project plan  Each group is assessed by the panel of examiners to evaluate the viability of project and allot the marks. The group will submit at the end of trimester 11:  A. The complete Design of the project.  B. Project report in the form of bound journal complete in all respect – 2 copy for the Institute and 1 copy of each student in the group for certification.  The term work evaluation will be done by the examiners in consultation with the guide. Oral examination will be based on the project work completed by the candidates. The project report must also be presented during the oral examination.  The project report contains the details.  ∙ Problem definition and requirement specification.  ∙ System definition - requirement Analysis.  ∙ System design (dataflow diagrams/ algorithm, UML diagrams).  ∙ Design of Test cases and procedure  ∙ Choice of the Platform to be used  ∙ Conclusions  ∙ Appendix tools used, References.  Documentation will use UML approach with presentation, Category, Use Case, Class Diagrams etc. | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Internal Assessment Marks** | | | | **Total** | **Credits** |
| **Internal Assessment (LCA)** | | | |  |  |
| **Topic Finalization** | **Guide Assessment** | **Mid-Term**  **Review** | **End-Term**  **Review** | **200** | **4** |
| **20** | **80** | **50** | **50** |

1.

**B.Tech. CapStone Project Course Outline: Stage-II ( Tri-XII )**

Teaching Scheme Examination Scheme Lab: 12 Hrs/Week (Trimester-12) Term work: 200 Marks Oral: 100 Marks

| **Course Code** | CS433 |
| --- | --- |
| **Name of the Course** | Capstone Project: Stage II |
| **Trimester** | Trimester – XII |
| **Course Objectives :** | |
| **Course Outcomes :**  1. Develop a computer based system using appropriate algorithms to reach an optimum solution.  2. Examine and utilize modern skills, techniques and tools for computing practice leading to lifelong learning.  3. Evaluate, test and analyze developed computer based system.  4. Demonstrate work ethics in teams to effectively manage conflicts.  5. Compose well-supported documentation of the work and inculcate oral defense skills | |

| **Course outline and policy :**  The Student will undertake one project over the academic year, which will involve the analysis, design of a system or sub system in the area of Computer Science and Engineering. The group will submit at the end of Trimester 12.  A. The Workable project.  B. Project report in the form of bound journal complete in all respect – 1 copy for the Institute and 1 copy of each student in the group for certification.  The term work will be accessed by the examiners in consultation with the guide. Oral examination will be based on the project work completed by the candidates. Project report work completed by candidates. Project report must also be presented during the oral examination. The project report contains the details.  1. Problem definition  2. Requirement specification  3. System design details (UML diagrams)  4. System implementation – code documentation – dataflow diagrams/ algorithm, protocols used.  5. Test result and procedure – test report.  6. Platform choice use.  7. Conclusions.  **8.** Appendix tools used, References. | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Internal Assessment Marks** | | | | **Total** | **Credits** |
| **Internal Assessment (LCA)** | | | **External Assessment (LCA)** |  |  |
| **Internal Guide** | **Mid Term**  **Review** | **End-Term**  **Internal**  **Examiner** | **End-Term by External Examiner** | **300** | **6** |
| **100** | **50** | **50** | **100** |

**DO’s & DON’T’s**

**Be punctual**: it is advised to follow time lines because project is mostly lab based activity. Therefore it is essential to perform all experiments in time.

**No plagiarism:** seek help from others instead of using someone’s program as it is.

**Learn from mistakes:** make mistakes during the program developments but at the same time identify the reasons due to which errors occurred and rectify them well in time.

Project Group Information

| **Sr.**  **No** | **PRN**  **No** | **Name of the Student** | **Contact**  **number** | **Email- ID** |
| --- | --- | --- | --- | --- |
| 1 | 1032180112 | Shreyas Khairnar | 7972263340 | k7shreyas@gmail.com |
| 2 | 1032180211 | Gopal Joshi | 9607007231 | gopaljoshi801@gmail.com |
| 3 | 1032180760 | Dhruv Kaliraman | 7030866118 | dhruv26kaliraman@gmail.com |
| 4 | 1032180748 | Abhishek Raj | 9521606562 | abhishekraj1729@gmail.com |

Name of the Internal Guide : Prof. Chitrakant Banchor

Contact details :

Name of the External Guide(If any):……………………………………………… Contact details :…………………………………………………………………

Undertaking by Students

We, the students of Final Year B. Tech. CSE (**Gr.ID**) B83 hereby assure that we will follow all the rules and regulations related to the B.Tech. project activity assigned by MIT World peace University for the academic year 2021 - 2022 .

The Project entitled - Predicting Election Outcomes Using Social Media Data

Will be fully designed/developed by us. Any part of the project’s hardware & software will not be purchased from outside parties for direct use and any part of software shall not be plagiarized. If such things are found by examiner, we are responsible for further consequences.

| **Sr. No** | **Name of the Student ( Panel & PRN )** | **Signature** |
| --- | --- | --- |
| **1** | Shreyas Khairnar (PA70 - 1032180112) |  |
| **2** | Gopal Joshi (PA90 - 1032180211) |  |
| **3** | Dhruv Kaliraman (PA247 - 1032180760) |  |
| **4** | Abhishek Raj (PA244 - 1032180748) |  |

Finalization of Project Title

Proposed Project Title: Predicting Election Outcomes Using Social Media Data

| **Sr.**  **No.** | **Parameters** | **Remark 1** | **Remark 2** |
| --- | --- | --- | --- |
| 1. | Significance/  Applicability |  |  |
| 2. | Originality of Idea |  |  |
| 3. | Innovativeness |  |  |
| 4. | Scope |  |  |
| 5. | Feasibility |  |  |

Finalized Project Title - Predicting Election Outcomes Using Social Media

Name and Signature of Reviewer 1

Name and Signature of Reviewer 2

Name and Signature of Reviewer 3

**B.Tech. CapStone Project Schedule**

| **Sr. No** | **Name of the Activity** | **Duration** |
| --- | --- | --- |
| 1. | Project Group Formation: |  |
| 2. | Project Topic Registration |  |
| 3. | Project Topic Finalization |  |
| 4. | Guide Allocation |  |
| 5. | Mid Term Review |  |
| 6. | End Term Review |  |
| 7. | Requirements Gathering and Analysis |  |
| 8. | Project Design (The software Engineering Diagrams) |  |
| 9. | Interim Project Report submission |  |
| 10. | Survey paper publication in consultation with Guide |  |
| 11. | **Evaluation for Trimester-XI** |  |
| 12. | Implementation of Project |  |
| 13. | Mid Term Review |  |
| 14. | End Term Review |  |
| 15. | Project Testing |  |
| 16. | Project Deployment |  |
| 17. | Final Project Report submission |  |
| 18. | Paper publication in consultation with Guide |  |
| 19. | **Evaluation for Trimester-XII** |  |

**Weekly Activity Chart**

Month:December

| **Week No.** | **Activity** | **Activity Completed** | **Students Sign** | **Internal/External sign** |
| --- | --- | --- | --- | --- |
| 1 | Exhaustive search for Final year Topic and Topic Finalization | Narrowed down the topic |  |  |
| 2 | Exhaustive search for Final year Topic and Topic Finalization | Finalized the topic |  |  |
| 3 | Deciding the project timeline | Timeline decided |  |  |
| 4 | Doing literature survey | Read 8 papers and documented the approach,dataset and models used and research gap |  |  |
| 5 | Doing literature Survey | Read 8 papers and documented the approach,dataset and models used and research gap |  |  |

Weekly Activity Chart

Month:January

| **Week No.** | **Activity** | **Activity Completed** | **Students Sign** | **Internal/External sign** |
| --- | --- | --- | --- | --- |
| 1 | Deciding on what data sources to gather relevant data | Sources:Twitter and Facebook finalized |  |  |
| 2 | Made PPTs , Literature Survey and Report for mid term evaluation | Mid term review completed successfully. |  |  |
| 3 | 1st attempt to scrape data from twitter. | Scraped data successfully and saw how data looks |  |  |
| 4 | Started to scrape the actual data for punjab elections | The data was scraped successfully |  |  |

Weekly Activity Chart

Month:February

| **Week No.** | **Activity** | **Activity Completed** | **Students Sign** | **Internal/External sign** |
| --- | --- | --- | --- | --- |
| 1 | Diagrams for the projects (Flow, Block Diagram, System Designs) and PPT was started to be made | Diagrams were completed and PPT was approx completed |  |  |
| 2 | End Term Review | PPT, Synopsis and Report completed |  |  |
| 3 | Gathering Domain Knowledge for Scraping Data | Decided keywords to scrape data on. |  |  |
| 4 | Experimenting with data collection | Did some experiments with various scraping keywords for analysis |  |  |
|  |  |  |  |  |

Weekly Activity Chart

Month: March

| **Week No.** | **Activity** | **Activity Completed** | **Students Sign** | **Internal/External sign** |
| --- | --- | --- | --- | --- |
| 1 | Started the data collection for Delhi 2020 | Collected all the data required for project purpose |  |  |
| 2 | Started data collection for Punjab 2022 and Delhi 2020 | Collected all the data required for project purpose |  |  |
| 3 | Dubai Expo Tour | NA |  |  |
| 4 | Dubai Expo Tour | NA |  |  |
| 5 | Went through documentation for various translators APIs available | Experimented with various translators and finalized googletrans API |  |  |

Weekly Activity Chart

Month: April

| **Week No.** | **Activity** | **Activity Completed** | **Students Sign** | **Internal/External sign** |
| --- | --- | --- | --- | --- |
| 1 | Dataset translation | Translated data for Punjab 2022 |  |  |
| 2 | Dataset translation | Translated data for Delhi elections (some still in progress) |  |  |
| 3 | Went through literature for text data cleaning and pre processing | Finalized the text data cleaning steps and built the preprocessing pipeline |  |  |
| 4 | Went through the literature for similarity detection measure methods in NLP for bias user detection | By comparing different similarity measures finalized fuzzywuzzy library for bias detection |  |  |
| 5 | Going through literature for sentiment analysis with state of the art BERT architecture | Learning fine tuning BERT model for sentiment analysis. |  |  |

Weekly Activity Chart

Month: May

| **Week No.** | **Activity** | **Activity Completed** | **Students Sign** | **Internal/External sign** |
| --- | --- | --- | --- | --- |
| 1 | Going through literature for sentiment analysis with state of the art BERT architecture | Learning fine tuning BERT model for sentiment analysis. |  |  |
| 2 | Applying BERT’s sentiment analysis model to datasets | Completed sentiment analysis of all the datasets for both Punjab Elections 2022 & Delhi 2020 Elections |  |  |
| 3 | Decided the features from the datasets and calculated results | Completed the fully functioning model and calculated results |  |  |
| 4 | Report Preparation | Report Preparation |  |  |

**B.Tech. CapStone PROJECT (Stage- I) – Mid Term Review**

Class: B.Tech. (CSE) Academic Year: 2021 - 2022 Trimester- XI

**Project Title**: Predicting Election Outcomes Using Social Media Data **Date**:

| **Group**  **No.** | **Project work status** | **Remark** | **Signature** |
| --- | --- | --- | --- |
|  | Literature Survey |  |  |
| Feasibility |  |  |
| Scope |  |  |
| Block Diagram/System arch. |  |  |
| Hardware |  |  |
| Software |  |  |
| Any Other comments |  |  |

Name of Internal Guide: Prof. Chitrakant Banchorr Signature of Internal Guide: Name of Review Committee member Signature of Committee Member

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B.Tech. PROJECT (Stage-I) – End Term Review**

Class: B.Tech. (CSE) Academic Year: 2021 - 2022 Trimester- XI

**Project Title**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**:

| **Group**  **No.** | **Project work status** | **Remark** | **Signature** |
| --- | --- | --- | --- |
|  | Literature Survey |  |  |
| Block Diagram |  |  |
| Hardware |  |  |
| Software |  |  |
| Documentation |  |  |
| Status of survey paper |  |  |
| Steps towards Implementation |  |  |
| Any other comments |  |  |

Name of Internal Guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature of Internal Guide:

Name of Review Committee member

Signature of Committee Member

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**CHECK LIST FOR B.Tech. PROJECT Stage -I SUBMISSION**

1. All project groups should complete the project report in all respect as per the prescribed format.

2. All groups should prepare the soft copy of the project seminar report and get the report checked from the internal guide and then print the hardcopy.

3. All groups should prepare the hard copy of the project interim report in the hardbound form. Each group should prepare 3 hardcopies for submission in the department + each individual group member copy.

4. Each group should submit the hard copy of synopsis.

5. Each group should submit one CD which should include

I. Synopsis

II. Interim Project report

III. Power point presentation based on the Interim Project Report

IV. System Architecture/Block diagrams

V. Coding if any

VI. Reference material

VII. Certificates of Project competition/paper presentation competition

**B.Tech. CapStone Project (Stage-II) – Mid Term**

Class: B.Tech. (CSE) Academic Year: 20 - 20 Trimester- T12 **Project Title**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**:

| **Group No.** | **Project work status** | **Remark** | **Signature** |
| --- | --- | --- | --- |
|  | Hardware |  |  |
| Software |  |  |
| Documentation |  |  |
| Implementation |  |  |
| Testing |  |  |
| Result |  |  |
| Scope for Improvement (if any) |  |  |

Name of Internal Guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature of Internal Guide: Name of Review Committee member Signature of Committee Member

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B.Tech. CapStone Project (Stage-II) – End Term**

Class: B.Tech. (CSE) Academic Year: 20 - 20 Trimester- T12 **Project Title**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**:

| **Group No.** | **Project work status** | **Remark** | **Signature** |
| --- | --- | --- | --- |
|  | Literature Survey |  |  |
| Block Diagram |  |  |
| Hardware |  |  |
| Software |  |  |
| Documentation |  |  |
| Coding |  |  |
| Paper publication status |  |  |
|  |  |  |

Name of Internal Guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature of Internal Guide: Name of External Signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CHECK LIST FOR B.Tech. PROJECT Stage-II SUBMISSION

1. All project groups should complete the project in all respect i.e. hardware and software in time.

2. All groups should prepare the soft copy of the project report and get the report checked from the internal guide and then print the hardcopy.

3. All groups should prepare the hard copy of the project report in the hardbound form. Each group should prepare 3 hardcopies for submission in the department + each individual group member copy.

4. Each group should submit the hard copy of synopsis.

5. Each group should submit one CD which should include

I. Complete demo of the project

II. Final Project report

III. Readme for execution of the project

IV. PPTs of the final presentation

V. Complete code of the Software created

VI. Paper presented

VII. Scan copy of Certificates

VIII. Scan copy of sponsorship letter and completion letter (if applicable) **Final submission should contain:** hardcopy of the project report and above mentioned CD

CONTRIBUTION/ACHIEVEMENTS/ RESEARCH OUTPUT

| **Group**  **No.** | **Project Title** | **Area of**  **Specialization** | **Contribution/ Achievements/ Research**  **Output** | **Publication** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

Name of Internal Guide: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature of Internal Guide:

**For sponsored project Details of meeting between**

**Internal guide and External guide**

**Trimester – T11**

| **S.No.** | **Date** | **Details about discussions** | **Signature** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Trimester – T12**

| **S.No.** | **Date** | **Details about discussions** | **Signature** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Participation in Project competition

| **Sr.No.** | **Name & Place of project competition / Exhibition** | **Date** | **Certificate/Prizes won (if any)** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

(Attach photocopy of certificate/s)

Paper publication / Presentation

| **Sr.No.** | **Name of the organizing**  **society/Journal** | **Date** | **Certificate/Prizes won (if any)** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

(Attach photocopy of certificate/s)

Annexure – A

**Evaluation Metrics for T11**

**Project Lab Assessment Procedure (100Marks)**

| Topic  finalization presentation (20 Mks) | Team Related evaluation criteria  (30Mks) | | | | Project Related evaluation criteria  (50 Mks) | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Regular Reporting, meeting with the**  **guide** | **Team**  **coordination** | **Accountability/**  **Individual**  **contribution** | **Communication**  **skills** | **Domain**  **knowledge** | **Innovative/**  **Research gap**  **identification / Need** | **Scope and**  **objectives** | **System**  **Architecture** | **Project**  **Planning** | **Documentation** |
| **20** | **10** | **10** | **5** | **5** | **5** | **10** | **5** | **10** | **15** | **5** |

Internal- Mid Term Review Evaluation(**50Marks**) + Expert Evaluation **(50Marks)**

| **Internal- Mid Term Review Evaluation(50Mks)** | | | | | | **Expert Evaluation(End Term Review) (50Mks)** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Literature**  **survey** | **Problem**  **statement** | **Research Gap**  **identification/ Need** | **Quality and**  **Analysis** | **Presentation skills** | **Concept clarity** | **Validation of**  **design** | **Presentation skills** | **Innovative** | **Applicability** | **Concept**  **clarity** | **Interim project report** |
| **10** | **5** | **15** | **10** | **5** | **5** | **10** | **10** | **5** | **5** | **5** | **15** |

**Evaluation Metrics for T12**

**Project Lab Assessment Procedure (100Marks)**

| Team Related evaluation criteria  (40Mks) | | | | Project Related evaluation criteria  (60 Mks) | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Regular Reporting, meeting with the**  **guide** | **Team**  **coordination &**  **Ethics** | **Accountability/**  **Individual**  **contribution** | **Communication**  **skills** | **Project Report (35 Mks)** | | | | | **State of the Art**  **Technique** | **Programming**  **and**  **implementation** |
| **20** | **10** | **5** | **5** | **Formatting/**  **Report**  **Compilation**  **10** | **Report Contents**  **10** | **Timely**  **submission**  **5** | **References**  **5** | **Plagiaris**  **m check**  **done or**  **not done**  **5** | **10** | **15** |

Internal- Mid Term Review Evaluation(**50Marks**)

| **Project Evaluation**  **(50Mks)** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Literature survey** | **System Architecture &**  **Design** | **Methodology/Algorithms used** | **Basic details**  **implementation** | **Presentation**  **Skills** | **Question and Answers** |
| **5** | **5** | **10** | **10** | **10** | **10** |

Expert Evaluation By Internal Examiner **(50Marks)**

| **Project Evaluation by Internal (50Mks)** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Applicability** | **Implementation Details** | **Testing & Validation** | **Result Analysis &**  **Performance**  **Evaluation** | **Presentation Skills** | **Publication/Project**  **Exhibitions/Poster**  **Presentation** |
| **5** | **5** | **10** | **10** | **10** | **10** |

Expert Evaluation by External Examiner **(100Marks)**

| **Expert Evaluation by External (End Term Examination) (100Mks)** | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Problem**  **Statement** | **Innovation** | **Applicability** | **Concept**  **clarity** | **Literature**  **Survey** | **System**  **Architecture & Design** | **Methodology**  **/Algorithms**  **used** | **Implementatio n Details** | **Testing &**  **Validation** | **Result**  **analysis** | **Presentatio**  **n skills** | **Question**  **and**  **Answers** | **Black**  **book:**  **project**  **report** |
| **10** | **5** | **5** | **5** | **5** | **10** | **10** | **10** | **10** | **10** | **10** | **5** | **5** |