MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY

Banjara Hills, Hyderabad, Telangana

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2016-2017

Contents

Part I
Contents

1. Vision of the Institution

To be part of universal human quest for development and progress by contributing high calibre, ethical and socially responsible engineers who meet the global challenge of building modern society in harmony with nature.

2. Mission of the Institution

- To attain excellence in imparting technical education from undergraduate through doctorate levels by adopting coherent and judiciously coordinated curricular and co-curricular programs.

- To foster partnership with industry and government agencies through collaborative research and consultancy.

- To nurture and strengthen auxiliary soft skills for overall development and improved employability in a multi-cultural work space.

- To develop scientific temper and spirit of enquiry in order to harness the latent innovative talents.

- To develop constructive attitude in students towards the task of nation building and empower them to become future leaders

- To nourish the entrepreneurial instincts of the students and hone their business acumen.

- To involve the students and the faculty in solving local community problems through economical and sustainable solutions.

3. Department Vision

To contribute competent computer science professionals to the global talent pool to meet the constantly evolving societal needs.

4. Department Mission

Mentoring students towards a successful professional career in a global environment through quality education and soft skills in order to meet the evolving societal needs.

5. Programme Education Objectives

1. Graduates will demonstrate technical skills and leadership in their chosen fields of employment by solving real time problems using current techniques and tools.

2. Graduates will communicate effectively as individuals or team members and be successful in the local and global cross cultural working environment.

3. Graduates will demonstrate lifelong learning through continuing education and professional development.

4. Graduates will be successful in providing viable and sustainable solutions within societal, professional, environmental and ethical contexts

6.   Programme Outcomes

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. **Lifelong learning:** Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

7. Programme Specific Outcomes

The graduates will be able to:

PSO1: Demonstrate understanding of the principles and working of the hardware and software aspects of computer systems.

PSO2: Use professional engineering practices, strategies and tactics for the development, operation and maintenance of software

PSO3: Provide effective and efficient real time solutions using acquired knowledge in various domains.

8. Introduction to Mini Project Laboratory

Course Outcomes

On successful completion of this course, students will acquire the ability to:

1. Identify a real world problem and undertake literature survey in order to formulate a solution.

2. Analyze the project and prepare the SRS.

3. Design the various project modules using appropriate tools.

4. Demonstrate knowledge of the project environment through implementation, testing and execution of the design.

5. Demonstrate documentation and presentation of project.

Course Description

The objective of the Mini project laboratory is to create awareness of the real time environment by installing, developing and executing different softwares for implementing a project. Students practice various methods of problem solving and knowledge representation for various programming languages. Students tend to apply a variety of strategies and techniques studied in various courses thereby monitoring the development of the project.

This course trains student to work in small teams with faculty supervision that help them to prepare for final year project. Here more emphasis is given on the design and implementation of real time problems by providing a platform for students to think and practice the skills of analysis and synthesis. It also simulate industrial exposure to the students for improving the employability. It helps the student to learn leadership skills, working together in a team towards a common goal and practice decision making.

Seminars are conducted twice a semester to check the quality and progress of the work done by the students.

Seminars are not intended as a mechanism for transmitting information, It serve as a means for groups of students to obtain a set of common experiences, usually based on a

text, piece of art, etc. Ideally seminar goes beyond the sharing of facts and probes the depths of the subject matter at hand.

Choosing the right project

The project is a chance for student to apply programming knowledge to solve a problem by developing code and doing some group activity.

Students are advised to select an area of specialization by selecting subjects from the previous or current semester of their interest. Students are guided to well-defined and relatively safe projects that provide scope for demonstrating proficiency with a low risk of failure and a high degree of original input and/or technical problem solving. They are instructed to choose the technology and select a problem statement with a new innovation or already solved problem with some enhancement. The students are instructed to use an approach depicted in figure 8.1 for selecting a project.
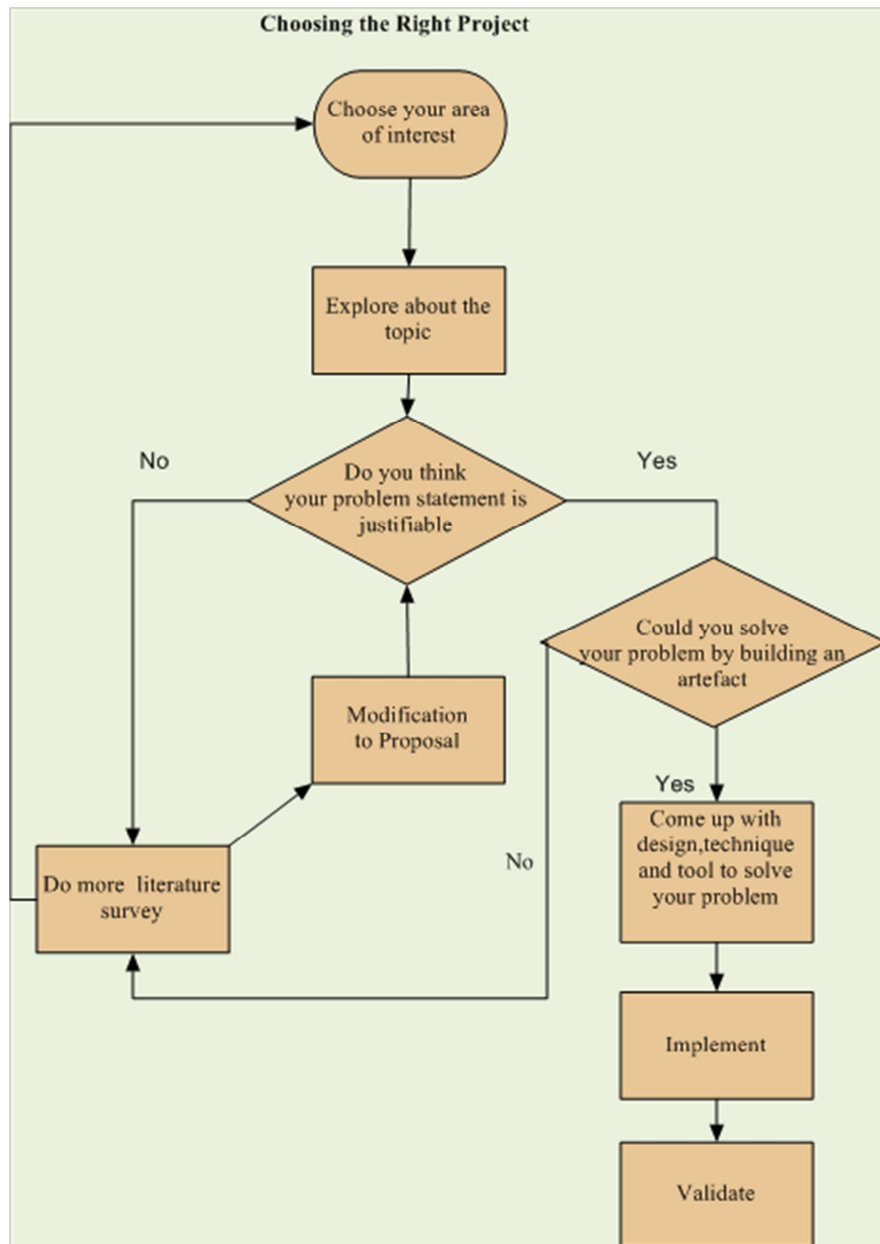
Figure 1: Figure 8.1: Flow chart for choosing a project

The mini projects are approved by the course coordinator from the shortlisted projects that are surveyed by the student. Remember that it is important to balance ambition and realism when making a choice.

A great project would solve a problem in the area of interest of students. Therefore students are instructed to use all the skills that they have learned to build something unprecedented that is as orthogonal as possible to any application they have heard of in the past.

Some of the areas of interest along with the guide names are listed in table 8.2 for reference.

S.No	Name	Designation	Area of Interest
1	Dr. A.A Moiz Qyser	Professor, Head	Software Engineering, Cloud Computing
2	Mr.K.Manmohan Rao	Professor	Data Communication
3	Mrs. Gouri Patil	Associate Professor	Computer Networks, Network Security and Mobile Computing
4	Mrs. Afreen Sultana	Associate Professor and Associate Head	Image processing, and Web Applications
5	Mrs. Fahmina Taranum	Associate Professor	Mobile Computing and Transaction Management
6	Mr. Syed Mohiuddin	Associate Professor	Mobile Computing
7	Mr.Meerja Akhil Jabbar	Associate professor	Data mining,Network security,Cloud Computing
8	Ms. Farheen Iqbal	Associate Professor	C/C++, Web Design, Object Oriented, System Design & Data Structures
9	Mr.Rafi u Zaman	Assocaite Professor	Adhoc Networking
10	Mr. S.M. Akbar Hashmi	Assistant Professor	Distributed Systems
11	Mr. Mohd. Saleem Khan	Assistant Professor	Cloud Computing
12	Mr. J. Srinivas	Assistant Professor	Spatial informatics, Cloud Computing and GIS
13	Ms. Syeda Ambareen Rana	Assistant Professor	Networks, and Object Oriented & System Design
14	Mr. Mohd. Nazeer	Assistant Professor	Cloud Computing, and Java
15	Mr. Meer Arshad Ali	Assistant Professor	Web development, and Distributed systems
16	Mrs. Naimoonisa Begum	Assistant Professor	Java related projects
17	Mr. Ahmed	Assistant Professor	Artificial Intelligence and Algorithms
18	Mr. Mohammed Mahmood Ali	Assistant Professor	Databases, Data Mining, Data warehouse, and Web Based Application
19	Mrs. K. Manjusha	Assistant Professor	Distributed Systems, and Networking
20	Mr. Mohd. Sharfuddin	Assistant Professor	Cloud Computing

S.No	Name	Designation	Area of Interest
21	Mr. Zainuddin Naveed	Assistant Professor	Software Engineering
22	Mr. Syed Salman Ali	Assistant Professor	Mobile Adhoc Networks, Databases
23	Mr. Mohd Gouse Baig	Assistant Professor	Network Security
24	Ms. Sridevi K	Assistant Professor	C, C++, Java, DBMS and Microprocessors
25	Mr. Venkat Subba Reddy	Assistant Professor	Software Engineering
26	Mr. Meer Ahmed Ali	Assistant Professor	Wireless Networks, and Cloud Computing
27	Ms. K.S Niraja	Assistant Professor	Computer Networks, Network Security and Mobile Computing
28	Mr. Mohammed Ahmed	Assistant Professor	Network Security, and and Cloud Computing
29	Ms. Krishna Keerti	Assistant Professor	Green Computing in Cloud Computing
30	Ms. Amina Yasmeen	Assistant Professor	Automata Theory, Cloud Computing
31	Mr. G. Rajesham	Assistant Professor	Information Security, Network Security
32	Mr. Mohd. Imran	Assistant Professor	Data mining, Dataware housing,Artificial Intelligence,Information retrievals systems
33	Mr. Khaja Zahooruddin	Assistant Professor	Computer Networks, Data Base Management, Software Engineering
34	Mr. Umar Farooq	Assistant Professor	Wireless Network
35	Mr.Shahbaaz	Assistant Professor	Cloud computing

Table 8.2 Faculty name with their specialization

Project team

The students will divide themselves into multiple teams. A team is ordinarily limited to at most 3 students. Project team can also be created from two different sections of the same class. Regular meetings and discussions amongst members of a team are encouraged. Laboratory attendance is COMPULSORY.

Role of the Course coordinator of the mini-project

- Approving the title of the mini-project.

- Managing the distribution of duties in a project team.

- Holding summary meeting with the students for mini-project progress bi weekly.

- Making decision about completion of the mini-project, scheduling seminars, awarding marks using assessment rubrics and suggesting improvement if needed.

- Adhering to the Assessment plan, preparing assessment matrix and submitting the same to the Programme coordinator.

9.   Assessment Plan

Muffakham Jah College of Engineering and Technology

COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

CLASS: B.E III/IV (CSE) SECTION A & B (SEMESTER: I II)

ACADEMIC YEAR: 2015-16

MINI PROJECT COURSE OUTCOME ASSESSMENT PLAN

FACULTY NAME:

| Course Outcomes	Phase	Week No	Content-(Marks)	No. of Weeks allotted	Marks	Outcome wise weightage
CO1	Phase I	1	Abstract(10)	1	10	20
		2	Survery(10)	1	5	
		3	Survery	1	5	
CO2		4	Analysis(10)	1	5	10
		5	Analysis	1	5	
CO3		6	Design(10)	1	5	10
		7	Design	1	5	
CO4	Phase II	9	Implementation(10)	1	10	40
		10	Implementation	1	10	
		11	Testing(10)	1	10	
		12	Testing	1	10	
CO5	Phase I	8	Seminar - I(5)	1	5	20
	Phase II	13	Seminar - II(10), Report(5)	1	15	

TOTAL SCORE   **100**

SCALED TOTAL   **25**

10. Mini project evaluation system

At the time of the commencement of the semester assessment plan must be prepared by the course coordinator by using the rubric given in figure 8.3 for evaluating marks of mini project laboratory.

Fig.8.3 Flowchart depicting the Comprehensive Mini Project Evaluation System
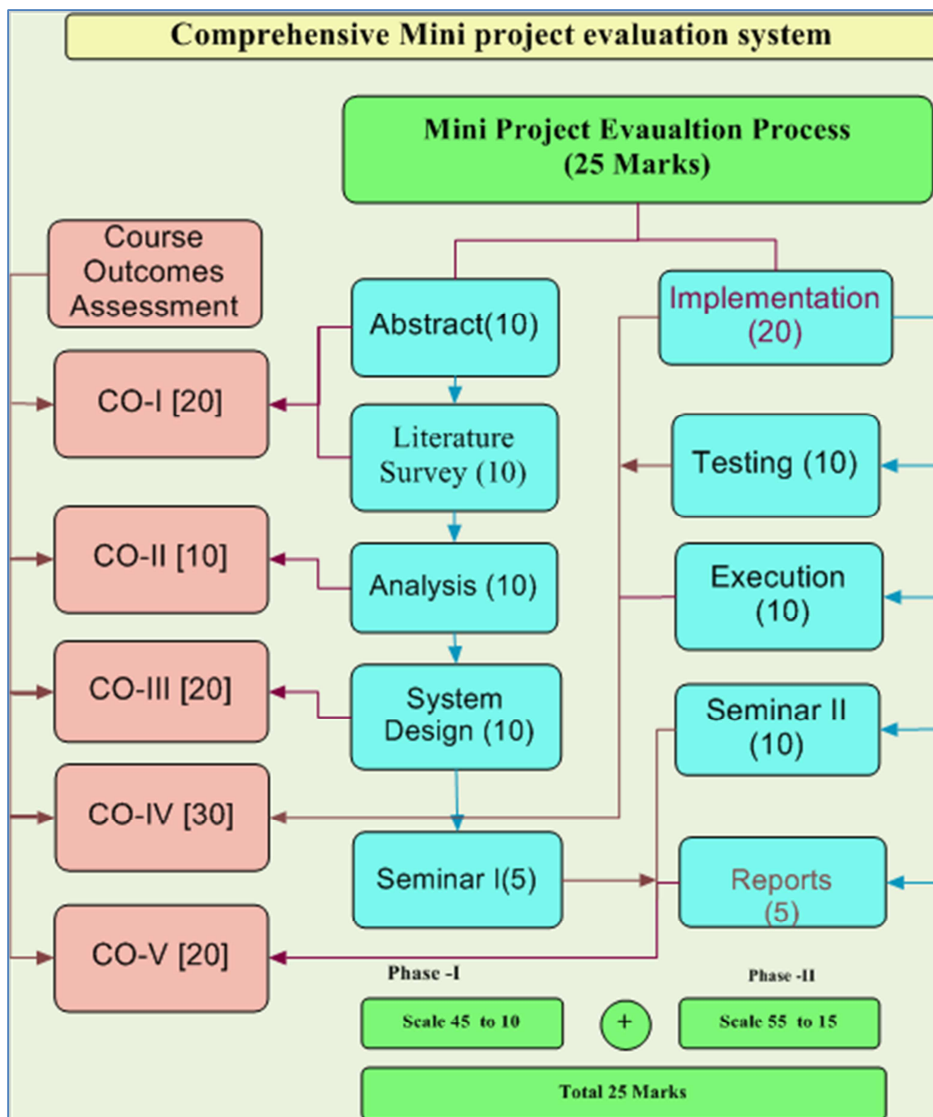
The Guidelines for the Comprehensive Mini Project Evaluation are as follows:

1. The Internal Mini Project marks shall be awarded as per the curriculum in the scheme of instructions provided by OU.

2. Course coordinator is responsible for awarding marks by using the Mini Project assessment rubrics

3. The internal marks of 25 are awarded in the following manner:

   a. Phase I - Maximum Marks 45

   b. Phase II - Maximum Marks 55

4. Phase -I is evaluated for a score of 45 marks by the course coordinator. The rubric parameters of Phase-I are as follows:

   a. Abstract - Maximum Score 10

   b. Literature Survey - Maximum Score 10

   c. Analysis - Maximum Score 10

   d. System Design - Maximum Score 10

   e. Seminar I - Maximum Score 5
      Total - Maximum Score 45
      Scaled Total - Maximum Score 10

5. Phase -II is evaluated for a score of 55 marks by the course coordinator. The rubric parameters of Phase-II are as follows:

   a. Implementation - Maximum Score 20

   b. Testing - Maximum Score 10

   c. Execution - Maximum Score 10

   d. Seminar II - Maximum Score 10

   e. Reports - Maximum Score 5
      Total - Maximum Score 55
      Scaled Total - Maximum Score 15

6. The 25 marks of Mini Project are obtained by summing the scaled down TOTAL of the Phase I and Phase II assessment rubrics.

7. Report: Each Mini Project report is evaluated for a score of 5. Failure to submit the report on or before the date of submission will lead to loss of 5 points on the score of 55.

8. Mini Project shall have 5 course outcomes. Which are assessed by using the following parameters

   • Course Outcome -I

- – Abstract - Maximum Score 10
- – Literature Survey - Maximum Score 10 Total - Maximum Score 20

- • Course Outcome -II

  - – Analysis - Maximum Score 10 Total - Maximum Score 10

- • Course Outcome -III

  - – System Design - Maximum Score 10
    Total - Maximum Score 10

- • Course Outcome -IV

  - – Implementation - Maximum Score 20
  - – Testing - Maximum Score 10
  - – Execution - Maximum Score 10
    Total - Maximum Score 40

- • Course Outcome -V

  - – Seminar I - Maximum Score 5
  - – Seminar II - Maximum Score 10
  - – Reports - Maximum Score 5
    Total - Maximum Score 20

  Final maximum aggregate score of 100 for all five outcomes is scaled down to Maximum scaled total of 25 marks.

9. Course Outcomes 1 to 5 will be assessed based upon the score of Mini Project Assessment rubrics. The rubric for assessment of Course Outcomes is placed in Annexure I.

10. A Mini project committee consisting of Course coordinator, Module Coordinator and HOD will monitor the quality of the projects.

11. If the student fails to give the seminars or the guide refuses to endorse the students work or the work of the candidate is found to be insufficient and plagiarism, Then Mini project Committee will decide the further action .

12. The Course Outcome Assessment Matrix for mini project will be provided by the Programme Coordinator.

11.   Annexure I

11..1   Assessment Sheet

ACADEMIC YEAR :   **SEMESTER: I/II**

COURSE :

NAME :   **ROLL.NO.**

CLASS :   **SECTION :**

BATCH No. :

Week No.	Content-(Marks)	Total No. of Weeks allotted	Date of conduct	Date of evaluation	Marks Obtained	Faculty Signature
1	Abstract(10)	1				
2	Survey(5)	2				
3	Survey(5)					
4	Analysis(10)	2				
5	Design(5)	2				
6	Design (5)					
7	Seminar I(5)	1				
8	Implementation(10)	2				
9	Implementation(10)					
10	Testing (10)	1				
11	Execution(10)	1				
12	Seminar-II(10) Reports(5)	1				

Scale Total Score (Max 100) to 25
= Phase I (scale 45 to 10) + Phase II(scale 55 to 15)

Mini Project Assessment Rubric

CATEGORY (% of Marks)	OUTSTANDING (75-100%)	ACCOMPLISHED (51-75%)	DEVELOPING (26-50%)	BEGINNER (Upto 25%)	CATEGORY (% of Marks)
Abstract					10
Literature Survey		Details described below			10
Analysis of the project					10
System Design					10
Implementation					20
Execution					10
Report					5
Seminars					15

1. **Abstract**
   CATEGORY(% of Marks): Abstract

   OUTSTANDING(75-100 %): Efficiently identifies the problem and the resources used to solve the problem.

   ACCOMPLISHED(51-75 %): Adequately identifies the problem and the resources used to solve the problem..

   DEVELOPING(26-50 %): Just Identifies the problem and the resources used to solve the problem .

   BEGINNER(Upto 25 %): Does not identify the problem and the resources used to solve the problem

   CATEGORY(% of Marks):10

2. **Literature Survey**
   CATEGORY(% of Marks): Literature Survey

   OUTSTANDING(75-100 %): Well defined Approach or technique or formula used to carry out a project using survey.

   ACCOMPLISHED(51-75 %): Adequately Approach or technique or formula is used to carry out a project.

DEVELOPING(26-50 %): Average Approach or technique or formula is used to carry out a project.

BEGINNER(Upto 25 %): No well defined Approach or technique or formula is used to carry out a project.

CATEGORY(% of Marks):10

3. **Analysis of the project**ev

CATEGORY(% of Marks): Analysis is essentially about converting the raw data that your project has collected into useful information

OUTSTANDING(75-100 %): Excellent Developing rough plan is made for Describing analytical work.

Excellent initial descriptive analysis is made to select a tool, Algorithm and technique

Excellent identification of the modules was made.

Resource estimation and time schedule is exactly demonstrated.

ACCOMPLISHED(51-75 %): Good Developing rough plan is made for Describing analytical work.

Initial descriptive analysis made to select a tool, Algorithm and technique is good.

Good identification of the modules was made.

Resource estimation and time schedule is appropriately made.

DEVELOPING(26-50 %): Average Developing rough plan is made for Describing analytical work.

Average initial descriptive analysis is made to select a tool, Algorithm and technique

Average identification of the modules was made.

Resource estimation and time schedule is roughly demonstrated.

BEGINNER(Upto 25 %): No Developing rough plan is made for Describing analytical work.

No initial descriptive analysis is made to select a tool, Algorithm and technique.

No identification of the modules was made.

Resource estimation and time schedule is not demonstrated.

CATEGORY(% of Marks):10

4. **System Design**

   CATEGORY(% of Marks): System Design
   OUTSTANDING(75-100 %): Design meets or exceeds desired objectives.

   Excellent proposal for skill development using tools, Project specification, control and monitoring.

   ACCOMPLISHED(51-75 %): Design meets desired objectives to some extent.

   Very Good proposal for skill development using tools, Project specification, control and monitoring.

   DEVELOPING(26-50 %): Design meets desired objectives.

   Good proposal for skill development using tools, Project specification, control and monitoring.

   BEGINNER(Upto 25 %): Design does not meet desired objectives.

   Average proposal for skill development using tools, Project specification, control and monitoring.

   CATEGORY(% of Marks):10

5. **Implementation**

   CATEGORY(% of Marks): Implementation

   OUTSTANDING(75-100 %): Excellent Application development

   ACCOMPLISHED(51-75 %): Very Good Application development

   DEVELOPING(26-50 %): Good Application development

   BEGINNER(Upto 25 %): Application development is not up to the mark.

   CATEGORY(% of Marks): 20

6. **Execution**

   CATEGORY(% of Marks) : Execution

   OUTSTANDING(75-100 %): Conclusions based on achieved results with expected validations.

   ACCOMPLISHED(51-75 %): Sound conclusions reached based on achieve results.

DEVELOPING(26-50 %): Serious deficiencies in support for stated conclusions.

BEGINNER(Upto 25 %): Insightful supported conclusion and recommendations

CATEGORY(% of Marks): 10

7. **Report**

   CATEGORY(% of Marks): Report format is consistent throughout including justification, heading style, font, margins, indentation, citations and references.

   OUTSTANDING(75-100 %): Work follows the required Report format.
   There are no grammatical errors.

   ACCOMPLISHED(51-75 %): Many deviations from required Report format.
   There are few grammatical errors.

   DEVELOPING(26-50 %): Report format is generally consistent.
   There are very few grammatical errors

   BEGINNER(Upto 25 %): Report format is inconsistent.
   There are many grammatical errors.

   CATEGORY(% of Marks):5

8. **Seminars**

   CATEGORY(% of Marks): Seminars

   OUTSTANDING(75-100 %): Speaks clearly and distinctly.

   Excellent presentation

   Excellent content

   Could properly answer 70-100 percent of the questions correctly.

   ACCOMPLISHED(51-75 %): Speaks clearly and distinctly.

   Good presentation

   Good content

   Could properly answer 60 -70 percent of the questions correctly.

   DEVELOPING(26-50 %): Average clarity in presentation

   Average presentation

Average content

Could answer to few questions only.

BEGINNER(Upto 25 %): No Clarity in presentation

Poor presentation

Content not up to the mark.

Could not answer properly to questions.

CATEGORY(% of Marks):15

**MUFFAKHAM JAH COLLEGE OF ENGINEERING AND
TECHNOLOGY
COMPUTER SCIENCE AND ENGINEERING DEPARTMENT**

**MINI PROJECT SEMINAR I
EVALUATION RUBRIC**

PROJECT TITLE :   MAX MARKS : 10

ACADEMIC YEAR :   DATE :

BATCH DETAILS

S. No.	Roll No.	Candidate Name	Course Coordinator (Signature)

Evaluator	S. No.	Rubric Parameter	Max Score	Secured Score	Secured Score	Secured Score
		Roll No.				
Course Coordinator	1	Abstract	5			
	2	Literature Survey	5			
	3	Analysis	5			
	4	Design	5			
	Total		20			
	Scale down total to 10		**10**			

Course Coordinator

MUFFAKHAM JAH COLLEGE OF ENGINEERING AND TECHNOLOGY
COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

MINI PROJECT SEMINAR II
EVALUATION RUBRIC

PROJECT TITLE :   MAX MARKS : 15

ACADEMIC YEAR :   DATE :

BATCH DETAILS

S. No.	Roll No.	Candidate Name	Course Coordinator (Signature)

Evaluator	S. No.	Rubric Parameter	Max Score	Roll No. Secured Score	Secured Score	Secured Score
Reviewer 1	1	Implementation	20			
	2	Testing	10			
	3	Execution	10			
		Total	40			
		Scale down total to 15	**15**			
Course Coordinator	1	Implementation	20			
	2	Testing	10			
	3	Execution	10			
		Total	40			
		Scale down total to 15	**15**			

Course Coordinator   Reviewer 1

11..2   Syllabus

CS 333

MINI PROJECT

Instruction   3 Periods per week

Sessional   25 Marks

The students are required to carry out mini projects in any of the areas such as Data Structures, Microprocessors and Interfacing, Database Management Systems, Operating Systems, Design and Analysis of Algorithms, and Software Engineering.

Students are required to submit a report on the mini project at the end of the semester.

CS 384

MINI PROJECT

Instruction   3 Periods per week

Sessional   25 Marks

The students are required to carry out mini projects in any of the areas such as Web programming and services. Compiler construction, Object oriented system development and Computer networks.

Students are required to submit a report on the mini project at the end of the semester.

11..3   Guidelines For Preparing Report

The report should be submitted in **A4** size. One copy for each batch. The certificate should consist of batch member names; his/her roll numbers and title of the project.

Paper Typing Format:

- Bond paper (A4 size) should be used for the preparation of the report. Typing should be done on one side of the paper with character font in **size 12** of **Times New Roman**.

- The layout should provide a margin of 1.50 Inches on the left, 1.00 Inches on the top, bottom and right.

- Fresh paragraph should commence after **five spaces. Double-spacing or One and half line spacing** shall be provided though the report.

- The page numbers should be indicated at the top-middle or bottom-middle of the each page.

- Should not underline the heading/subheadings and should not put colons (:) in headings or subheadings.

Binding

- The REPORT shall be properly bound

  ```
  Top:

          Title

          Name and Roll No.

      Bottom:

          Computer Science and Engineering Department

          Muffakham jah college of Engineering and Technology

          (Affiliated to Osmania University)

          Hyderabad

      Year of submission: 2016
  ```

- Two blank papers should be provided at the beginning and at the end.

- The bound side must indicate B.E., name of the candidate and year.

  Second Page

- The second page should contain the following (See the sample format)

  Title

  Mini Project report submitted in partial fulfilment of the requirement for the award of the Mini project of B.E.

  By

  Name of the Candidate

  Roll No.

  Bottom

  Computer Science and Engineering Department

  Muffakham Jah College of Engineering and Technology

  (Affiliated to Osmania University)

  Hyderabad

  Third Page

- The third page should contain a certificate signed by the Course coordinator in the following format and should be on the college letter head. (See the sample format)

  Certificate

```
      This is to certify that the Mini  project report entitled _____
being subitted by Mr/Mrs _____ in partial fulfillment for the work done
in Mini project laboratory is a record of bonafied work carried out by him/her
under my guidance and supervision.
```

The results embodied in this report have not been submitted to any other University or Institute for the award of any Degree or Diploma.

(Course coordinator)

/*NOTE: DO NOT NUMBER THIS PAGE. CERTIFICATE AND DEC-LARATION PAGES ARE NOT NUMBERED BUT BY DEFAULT THEY ARE ROMAN I AND ROMAN II PAGES*/

Fourth Page (if any)

The fourth page may include the Certificate given by Organization or Company where you have done your project. College certificate should precede this certificate.

Fifth Page
The fifth page should contain the declaration by the students (see the sample format)

Sixth Page
The sixth page may include the Acknowledgment

Seventh and Eight Page
In these pages, a table of contents, list of tables, list of figures, and photographs and notation must be provided with numbers and dont give sequence no to references.

Ninth Page
The ninth page should contain an abstract of the Project report. The candidate may emphasize here his contributions.

Important Note:

- All the above pages are to be numbered in Roman numerals of lower case. Ex. i,ii,iii,iv,

- The document pages must be numbered using numbers i.e. 1,2,3

Arrangement of Chapters

The following is suggested format for arranging the project report into various chapters:

1. Introduction This chapter must describe introduction about your project.

2. Literature Survey/Review of Literature

3. Analysis Define the problem, Define the modules and their functionalities

4. System Design Hardware / Software requirements

   The design part must include the following items

   - DFDs in case of Database projects
   - UML diagrams. This UML diagrams must include the following Class Diagrams Interaction diagrams-Sequence and Collaboration diagrams Object Diagrams Use case diagrams ETC.

- For database projects, the report must include the following items. E-R Diagrams

5. Implementation

   /* Actual Implementation of the problem should be described in this chapter. */ Explain Implementation by writing an algorithm, pseudocode and executable code (put the screen shots)

6. Results and Discussions (Graphical or statistical analysis) Discuss various test cases (two or three) for black box and white box testing for your project.

7. Conclusions & Future Enhancements / Recommendations References / Bibliography /Appendices (if any)

Arrangement of Paragraph in a Chapter:

- Each paragraph in a chapter should be properly numbered for example, 2.1, 2.2 etc., where first digit represents the Chapter Number and second digit the paragraph number. There is no need to indicate the number for the first paragraph in a chapter.

- Sub-paragraphs, if any indicated as 1.1.1, 1.1.2 etc. i.e. first digit representing the chapter, the second representing the paragraph and third representing the sub-paragraph.

- Dont underline the headings or subheadings or side heading. Instead use the bold letters.

Photographs/Figures and Tables

- The figures, photographs and tables occurring in a chapter may be serially numbered as Fig. 1.1, 1.2 etc., where the first digit represents the chapter, the second digit represents Figure number.

- The photographs may be represented as Photo 1.1, 1.2 etc., the first digit representing chapter and the second digit represents Photograph number.

- The tables may be represented as Table 1.1, 1.2 etc., the first digit representing chapter and the second digit represents table number.

Graphs

The graph should clearly indicate the points, which are used for drawing the curve or curves.

Equations:

- All the equations used in the report should be properly numbered chapter wise [eg. Eq.3.1 or eq.3.1 or 3.1 or (3.1)].

- The equations shown should be clearly referred and identified as Eq. or eq. followed by equation number.

- Repetition of the equations should be avoided. If needed, it may be referred by its number.

- Equations should never be mixed up with main text. It should be shown as separate object and Equation Editor can be used.

Appendices:

- Important programs, derivations, data and any other useful material may be shown in the appendices with proper numbering.

- The appendices should be numbered in capital Roman numbers or capital letters from first chapter to the last chapter in ascending order.

- Using same ascending order numbers, the appendices should be shown with details after the last chapter.

- All the appendices should be referred in the main text.

Bibliography or References:

- References should be numbered from 1st chapter to the last chapter in ascending order and should be shown in square brackets.

- The following format may be used for writing the Bibliography/References. Author Name, Title of the book or paper, Publisher name, year.

The bibliography list should be made strictly in alphabetical order of the name of the authors.

Sample Format of Project Report

A Report

on

<ITLE OF THE PROJECT WORK>

Submitted for partial fulfillment of the requirements for the
Mini project Laboratory

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

BY

<Mr. / Ms. Name of the Student (Roll No.)>

<Mr. / Ms. Name of the Student (Roll No.)>

Under the guidance of

<Name of the Staff>

Professor

Department of CSE

MJCET, Hyderabad.

LOGO of MJCET

Department of Computer Science and Engineering

Muffakham Jah college of Engineering and Technology

Hyderabad -500 034

CERTIFICATES

CERTIFICATE

This is to certify that the project work entitled <**Title Of The Project Work**>

is a bonafide work carried out by <**Mr. / Ms. Name of the Student (Roll No.)**>,

in partial fulfillment of the requirements for the Mini project laboratory of

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND

ENGINEERING by the **OSMANIA UNIVERSITY**, Hyderabad, under our

guidance and supervision.

The results embodied in this report have not been submitted to any other

university or institute for the award of any degree or diploma.

Course coordinator

<**Name of the Staff**>

<Designation>

Department of CSE

MJCET, Hyderabad.

DECLARATION

This is to certify that the work reported in the mini project entitled

<**Title Of The Project Work**> is a record of work done by us in the Department

of Computer Science and Engineering, Muffakham Jah College of Engineering and

Technology, Osmania University. The reports are based on the project work done

entirely by us and not copied from any other source.

<**Mr. / Ms. Name of the Student**>

<**Mr. / Ms. Name of the Student**>

ACKNOWLEDGEMENTS

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Finally, I would like to take this opportunity to thank my family for their support through the work. I sincerely acknowledge and thank all those who gave directly or indirectly their support in completion of this work

(Name of the student)

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