**SREE VIDYANIKETHAN ENGINEERING COLLEGE**

SREE SAINATH NAGAR, TIRUPATI – 517 102

# Department of Computer Science and Engineering

Date: 22-03-2021

#### Project Report Guidelines

The following format and guidelines should be adhered by all IV B.Tech. (CSE) students while submitting the project report.

**Format:**

1. Wrapper (color must be sea blue).
2. First page same as cover page in White.
3. Vision and Mission
4. Program Educational Objectives
5. Program Specific Outcomes
6. Program Outcomes
7. Course Outcomes
8. CO-PO Mapping
9. Declaration.
10. Bonafide Certificate.
11. Acknowledgements.
12. Abstract (not more than 200 words).
13. Table of contents.
14. Introduction **(Chapter 1)**
    1. Introduction
    2. Statement of the problem
    3. Objectives
    4. Scope
    5. Applications
    6. Limitations

9. Literature Survey. **(Chapter 2)**

This is a review of established knowledge (literature overview), which is relevant to the main topic. It may include historical review, a critical account of more recent work on exposition of theory and technique used for the practical work.

1. Analysis **(Chapter 3)**
2. Design **(Chapter 4)**
3. Implementation **(Chapter 5)**
4. Execution Procedure and Testing **(Chapter 6)**
5. Results & performance Evaluation **(Chapter 7)**
6. Conclusion and future work **(Chapter 8)**
7. Appendix
   1. Program listing/code
   2. List of Abbreviations/Nomenclature
   3. List of figures
   4. Screen shots
8. References

**Guidelines:**

1. The text should be 1.5 line spaced and only one side of each page should be used.

**Titles:** font size: 14 + Bold, **Sub Titles:** font size: 12 + Bold

contents: 12, in verdana (font type).

1. A4 white paper should be used.
2. A margin of 4cm should be left on left hand side of the page and 2.5 cm on right hand side, top and bottom to allow for trimming and binding, page number should appear fig. no. and table no. if any.
3. The report should be hard bound.
4. The format of certificate should be as per the **Appendix – I.**
5. The cover page/ title page should be as per the sample given in **Appendix – II.**
6. Neatness and clarity is observed in all cases.
7. Unnecessary graphics and decorations should not be used in report presentation.
8. The format of reference should be as per the sample given in **Appendix – III.**
9. The format of Vision, Mission, PEO’s, PSO’s, PO’s, CO’s, CO-PO Mapping should be as per the given in **Appendix – IV**
10. The format of Declaration should be as per the **Appendix – V**
11. The side of the Project report should contain Year/Batch no followed by Title.

Example: 2015-19/CSE – A04 Adaptive on The Fly Compression

1. Each page should include chapter name in the top right most corner and “Dept. of CSE” at bottom left most corner, page numbers at the bottom right most corner.
2. Tables and figures appearing in the project should bear appropriate numbers. The rule for assigning such numbers is illustrated through an example. Thus if as figure in chapter 3, happens to be the fourth then assign 3.4 to that figure. Identical rules apply for tables expect that the word figures are replaced by the word table. If figures or tables appear in appendices then figure 3 in Appendix 2 will be designated as Figure A .2.3
3. Equations appearing in each chapter or appendix should be numbered serially, the numbering commencing a fresh for each chapter or chapter or appendix. Thus for example, an equation appearing in chapter 2, if it happens to be the eight equation in that chapter should be numbered (2.8) while referring to this equation in the body of the project report it should be referred to as Equation (2.8).
4. Double spacing should be used for typing the Certificate, Declaration and Acknowledgement.
5. The last word of any page should not be split using a hyphen.
6. The table of contents should list all material following it as well as any material which precedes it. The title page bonafide Certificate and acknowledgement will not find a place among the items listed in the table of contents but the page numbers of which are in lower case Roman Letters. One and a half spacing should be adopted for typing the matter under this head.
7. **Ethics**
   1. The project work is the presentation of some one else’s work as if it is one’s own. It is regarded as a sever misdemeanor by professional Institutions. This does not mean that the work as after people cannot be incorporated in the report, but any such contribution must be identified and acknowledged.

2. Manipulation of results is regarded as a serious offence. Whether it involves take results or distorting them to fit expectations. Examiners will treat any violations of these rules very harshly and may attract the rejection of the project.

1. Before final printing, the students are instructed to submit draft copy to the concerned guide, and coordinators for suggestions and approval.
2. No. of copies to be submitted are no. of Students in the Batch + 3 along with CD
3. For any further clarification refer the previous project reports available in the department library.



**SREE VIDYANIKETHAN ENGINEERING COLLEGE**

(Affiliated to Jawaharlal Nehru Technological University Anantapur)

Sree Sainath Nagar, A. Rangampet, Tirupati – 517 102, Chittoor Dist., A.P.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

CERTIFICATE

This is to certify that the Project Work entitled

“---------------------------------------------------------------------“

is the bonafide work done by

|  |  |
| --- | --- |
| **NAME OF THE STUDENT** | **(ROLL NUMBER)** |
| **NAME OF THE STUDENT** | **(ROLL NUMBER)** |
| **NAME OF THE STUDENT** | **(ROLL NUMBER)** |
| **NAME OF THE STUDENT** | **(ROLL NUMBER)** |

In the Department of Computer Science and Engineering, Sree Vidyanikethan Engineering College, A. Rangampet. is affiliated to JNTUA, Anantapuramu in partial fulfillment of the requirements for the award of Bachelor of Technology in Computer Science and Engineering during 2015-2019.

This is work has been carried out under my guidance and supervision.

The results embodied in this Project report have not been submitted in any University or Organization for the award of any degree or diploma.

**Internal Guide Head**

###### Guide Name Dr. B. Narendra Kumar Rao

Designation Prof & Head

Dept of CSE Dept of CSE

Sree Vidyanikethan Engineering College Sree Vidyanikethan Engineering College

Tirupathi Tirupathi

**INTERNAL EXAMINER EXTERNAL EXAMINER**

“**TITLE**”

A Project Report submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNVERSITY ANANTAPUR.

In Partial Fulfillment of the Requirements for the Award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

BY

|  |  |
| --- | --- |
| **NAME OF THE STUDENT** | **(ROLL NUMBER)** |
| **NAME OF THE STUDENT** | **(ROLL NUMBER)** |
| **NAME OF THE STUDENT** | **(ROLL NUMBER)** |
| **NAME OF THE STUDENT** | **(ROLL NUMBER)** |

Under the Guidance of

**Mr. Guide Name**

Designation

Dept of CSE, SVEC



Department of Computer Science and Engineering

### **SREE VIDYANIKETHAN ENGINEERING COLLEGE**

(Affiliated to JNTUA, Anantapuramu)

Sree Sainath Nagar, Tirupathi – 517 102

2015-201

### References: -

This is a list of external material referred to in the Text. The entries should be numbered in the order in which the references occur. These references are indicated in the text by the use of the number either in superscript3 or bracketed [3] form. This will indicate the complete citation in the reference section. The format of this citation depends on whether it refers to a book or technical paper.

1. Books: The convention here is:

Author, Title (Edition), Publisher, Place of Publications Page number(s); Eg: Aho, ULLMAN, “Compiler Construction”, M.C.Graw Hill, New York, 1978, PP603-606.

1. Technical Paper. The accepted form is:

Author, Title of article, Journal, Volume, Number, date, page no.

###### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

###### VISION AND MISSION

**VISION**

To become a Centre of Excellence in Computer Science and Engineering by imparting high quality education through teaching, training and research.

##### MISSION

The Department of Computer Science and Engineering is established to provide undergraduate and graduate education in the field of Computer Science and Engineering to students with diverse background in foundations of software and hardware through a broad curriculum and strongly focused on developing advanced knowledge to become future leaders.

Create knowledge of advanced concepts, innovative technologies and develop research aptitude for contributing to the needs of industry and society.

Develop professional and soft skills for improved knowledge and employability of students.

Encourage students to engage in life-long learning to create awareness of the contemporary developments in computer science and engineering to become outstanding professionals.

Develop attitude for ethical and social responsibilities in professional practice at regional, National and International levels.

###### Program Educational Objectives (PEO’s)

##### 1. Pursuing higher studies in Computer Science and Engineering and related disciplines

##### 2. Employed in reputed Computer and I.T organizations and Government or have established startup companies.

##### 

##### 3. Able to demonstrate effective communication, engage in team work, exhibit leadership skills, ethical attitude, and achieve professional advancement through continuing education.

###### Program Specific Outcomes (PSO’s)

##### 1. Demonstrate knowledge in Data structures and Algorithms, Operating Systems, Database Systems, Software Engineering, Programming Languages, Digital systems, Theoretical Computer Science, and Computer Networks. (PO1)

##### 2. Analyze complex engineering problems and identify algorithms for providing solutions (PO2)

##### 3. Provide solutions for complex engineering problems by analysis, interpretation of data, and development of algorithms to meet the desired needs of industry and society. (PO3, PO4)

##### 4. Select and Apply appropriate techniques and tools to complex engineering problems in the domain of computer software and computer based systems (PO5)

###### Program Outcomes (PO’s)

##### 1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems (Engineering knowledge).

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

##### 3. 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 (Design/development of solutions).

##### 4. 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 (Conduct investigations of complex problems).

##### 5. 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 (Modern tool usage)

##### 6. 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 (The engineer and society)

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

##### 8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice (Ethics).

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

##### 10. 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 (Communication).

##### 11. 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 (Project management and finance).

##### 

##### 12. Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change (Life-long learning).

###### Course Outcomes

##### CO1. Knowledge on the project topic (PO1)

##### CO2. Analytical ability exercised in the project work.(PO2)

##### CO3. Design skills applied on the project topic. (PO3)

##### CO4. Ability to investigate and solve complex engineering problems faced during the project work. (PO4)

##### CO5. Ability to apply tools and techniques to complex engineering activities with an understanding of limitations in the project work. (PO5)

##### CO6. Ability to provide solutions as per societal needs with consideration to health, safety, legal and cultural issues considered in the project work. (PO6)

##### CO7. Understanding of the impact of the professional engineering solutions in environmental context and need for sustainable development experienced during the project work. (PO7)

##### CO8. Ability to apply ethics and norms of the engineering practice as applied in the project work.(PO8)

##### CO9. Ability to function effectively as an individual as experienced during the project work. (PO9)

##### CO10. Ability to present views cogently and precisely on the project work. (PO10)

##### CO11. Project management skills as applied in the project work. (PO11)

##### CO12. Ability to engage in life-long leaning as experience during the project work. (PO12)

###### CO-PO Mapping

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** | **PSO3** | **PSO4** |
| **CO1** | 3 |  |  |  |  |  |  |  |  |  |  |  | 3 |  |  |  |
| **CO2** |  | 3 |  |  |  |  |  |  |  |  |  |  |  | 3 |  |  |
| **CO3** |  |  | 3 |  |  |  |  |  |  |  |  |  |  |  | 3 |  |
| **CO4** |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  | 3 |  |
| **CO5** |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  | 3 |
| **CO6** |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |  |
| **CO7** |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |  |
| **CO8** |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |
| **CO9** |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |
| **CO10** |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |
| **CO11** |  |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |
| **CO12** |  |  |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |

##### (Note: 3-High, 2-Medium, 1-Low)

###### DECLARATION

We hereby declare that this project report titled **“Title”** is a genuine project work carried out by us, in **B.Tech *(Computer Science and Engineering)*** degree course of **Jawaharlal Nehru Technological University Anantapur** and has not been submitted to any other course or University for the award of any degree by us.

Signature of the student

1.

2.

3.

4.

**ACKNOWLEDGEMENT**

We are extremely thankful to our beloved Chairman and founder **Dr. M. Mohan Babu** who took keen interest to provide us the infrastructural facilities for carrying out the project work.

We are highly indebted to **Dr. P.C. Krishnamachary**, Principal of Sree Vidyanikethan Engineering College for his valuable support and guidance in all academic matters.

We are very much obliged to **Dr. B. Narendra Kumar Rao,** Professor & Head, Department of CSE, for providing us the guidance and encouragement in completion of this project.

We would like to express our indebtedness to the project coordinator, **Coordinator Name**, designation, Department of CSE for his valuable guidance during the course of project work.

We would like to express our deep sense of gratitude to **Guide Name**, designation, Department of CSE, for the constant support and invaluable guidance provided for the successful completion of the project.

We are also thankful to all the faculty members of CSE Department, who have cooperated in carrying out our project. We would like to thank our parents and friends who have extended their help and encouragement either directly or indirectly in completion of our project work.