**Department of Electronics and Communication Engineering**

# Academic Year: 2023 -2024

Major Project

# VIII Sem. ECE (18EC81)

Project Diary

*A summation of all of the daily activities of the project work*

*(Autonomous Scheme - 2018)*

**In house Project / Internship based Project**

**Title:**

**Project carried out at**

***by***

|  |  |
| --- | --- |
| **Name of the students** | **USN** |
|  |  |
|  |  |
|  |  |
|  |  |

***Under the guidance of***

Name of Guide: Name of Guide:

Designation: Designation:

(Internal) (External /Internal)



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**List of Submissions for Major project presentation**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.no** | **Submission** | **Components** | **Target dates** |
| 1 | Synopsis | Identification of Problem, Study of the Existing Systems and Feasibility of Project Proposal, Submission of synopsis | 27/4/2024 |
| 2 | Phase I - Project Synopsis Assessment and Finalization | Objectives and Methodology of the Proposed Work Presentation |
| 3 | Phase II evaluation | Design Methodology, Planning of project work and team structure, Demonstration and presentation | 27/4/2024 |
| Submission of Chapter 1 & 2 draft |
| 4 | Phase III evaluation | Incorporation of suggestions, High Level design, Detail Design, Partial Implementation | 25/05/2024 |
| Submission of Chapter 3 & 4 draft |
| 5 | Phase IV – Final  evaluation | Incorporation of Suggestions, Implementation, Testing, Analysis, Results and Discussion, Conclusion and Future work, Project Demo, Submission of paper to a journal / conference | 31/05/2024 |
| Submission of draft report |
| 6 | Final Project Report | Project Outcome, Format and Completeness, Figures and tables, Aesthetics, Visit to industries by internal guides | 31/05/2024 |
| Submission of report |

**Synopsis of the Project**

**(Project Synopsis approved and signed by the Guide, and committee to be attached / stick here)**

**PROJECT EXECUTION PLAN**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities planned for that week** |
| **1.** | **From Date : To Date:** |  |
| **2.** | **From Date : To Date:** |  |
| **3.** | **From Date: To Date:** |  |
| **4.** | **From Date: To Date:** |  |

**PROJECT EXECUTION PLAN**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities planned for that week** |
| **5.** | **From Date : To Date:** |  |
| **6.** | **From Date : To Date:** |  |
| **7.** | **From Date : To Date:** |  |
| **8.** | **From Date : To Date:** |  |

**PROJECT EXECUTION PLAN**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities planned for that week** |
| **9.** | **From Date : To Date:** |  |
| **10.** | **From Date : To Date:** |  |
| **11.** | **From Date : To Date:** |  |
| **12.** | **From Date : To Date:** |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities planned for that week** |
| **13.** | **From Date : To Date:** |  |
| **14.** | **From Date : To Date:** |  |
| **15.** | **From Date : To Date:** |  |
| **16.** | **From Date : To Date:** |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities planned for that week** |
| **17.** | **From Date : To Date:** |  |
| **18.** | **From Date : To Date:** |  |

**Signature of Internal Guide Signature of the HOD**

**Budget Estimate**

(Expenditure towards tools, Accessories, stipend etc.)

**Project Title**

**Hardware and software tools cost**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Name of the H/W and S/W tool.** | **Specification (in brief)** | **Unit price in** ₹ | **Total Unit/ Quantity required** | **Estimated cost (in** ₹**.)** |
| 1. |  |  |  |  |  |
| 2. |  |  |  |  |  |
| 3. |  |  |  |  |  |
| 4. |  |  |  |  |  |
| **Total Cost** | | | | |  |

**Cost to company w.r.t stipend amount**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Amount in** ₹ **per month** | **No. of Month** | **Total amount in** ₹ |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |

(If any other cost expenditure expected please mention)

## REPORT OF ACTIVITY CARRIED OUT

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **1.** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **2.** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

**REPORT OF ACTIVITY CARRIED OUT**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **1.** | **From Date :**  **To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **2.** | **From Date: To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

**REPORT OF ACTIVITY CARRIED OUT**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week / Date**  **wise plan** | **Activities carried out** |
| **3** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **4** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week / Date wise plan** | **Activities carried out** |
| **5** | **From Date: To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **6** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **7** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **8** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

**REPORT OF ACTIVITY CARRIED OUT**

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **9** | **From Date: To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **10** | **From Date: To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **11** | **From Date: To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **12** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **13** | **From Date: To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **14** | **From Date: To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **15** | **From Date : To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Week wise plan** | **Activities carried out** |
| **16** | **From Date: To Date:** |  |
| **Guide Remarks:** | |  |
| **Guide Signature with Date:** | |  |

### Project Presentation – Panel Members comments

Phase I Date of Presentation:

Panel Remarks:

Signature of the Panel members

Phase II Date of Presentation:

Panel Remarks:

Signature of the Panel members

Phase III Date of Presentation:

Panel Remarks:

Signature of the Panel members

Phase IV Date of Presentation:

Panel Remarks:

Signature of the Panel members

### Outcome of the Project

Phase V

Mention the outcome of the Project work executed

Signature of the Guide

**Rubrics for all 5 phases**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Review # | Particulars | Agenda | Assessment | Review  Assessment weightage |
| Review -1 | **Project Evaluation I**  (Selection of the topic and formulation of objectives) | Project Synopsis/  Proposal Evaluation | Rubric R1 | 10%  (10) |
| Review -2 | **Project Evaluation II** | Design and development of Project Methodology | Rubric R2 | 25%  (25) |
| Review -3 | **Project Evaluation III** | Execution of the project | Rubric R3 | 25%  (25) |
| Review -4 | **Project Evaluation IV** | Presentation, Demonstration and results discussion | Rubric R4 | 30%  (30) |
| Review -5 | **Project Evaluation V** | Report writing | Rubric R5 | 10%  (10) |
|  | **Total** | | | 100%  (100) |

**Rubric #R1: Project Synopsis/ Proposal- (Project Evaluation Phase-1)**

**Maximum Marks\*: 10 (Conduct for 100 marks and reduce it to 10 marks)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Level of Achievement | | | | | | | |
|  |  | **Excellent (25)** | **Good (20)** | **Average**  **(15)** | **Acceptable**  **(10)** | **Unacceptable**  **(5)** | **Score**  **(100)** |
| a | **Identification**  **of Problem in the program**  **Domain and Detailed Analysis(15)** | Detailed and extensive explanation  of the purpose and  uniqueness of the project | Good  Explanation of the  purpose and relation with the program of study and usefulness | Average  Explanation of the  Purpose and relation with the program of study | Moderate  explanation  of the purpose and  relation with the program of study | Minimal  explanation of  the purpose and relation with the program of study |  |
| b | **Study of the Existing Systems and Feasibility of Project Proposal(25)** | Detailed and extensive explanation of the specifications  and the limitations of the existing systems | Collects a great deal of information and good study of the existing systems; | Moderate study of the  existing systems;  collects some basic  information | Explanation  of the specifications  and the limitations of  the existing systems not very  satisfactory; limited | Minimal explanation of  The specifications  and the limitations of  the existing systems;  incomplete information |  |
|  |  |  |  |  | information |  |
| c | Objectives and Methodology  of the | All objectives of the proposed work are well  defined; Steps to be  followed to solve the  defined problem are | Good justification to the objectives;  Methodology to be | Incomplete justification to the  Objectives proposed; | Only Some objectives of  the proposed work are well | Objectives of the proposed work are  either not |  |
|  | Proposed Work (25) | followed is specified but detailing is  not done | Steps are mentioned  but unclear; without | defined;  Steps to be followed to | identified or not well defined; |
|  |  |  |  | solve the | Incomplete |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | clearly specified |  | justification to objectives | defined problem are not specified  properly | and improper specification |  |
| d | Interdisciplinary Work  (Knowledge, Skills, and Research Base)  (15) | The student demonstrates **deep** understanding of an issue from **multiple** disciplinary perspectives. During the defense, the student provides **rich** synthesis, analysis, and/or creativity from all **three** areas of study. | The student connects examples, facts, or conclusions from all **three areas** of study. During the defense, the student provides **good** synthesis, analysis, and/or creativity from all **three** areas of study. | The student minimally relates examples, facts, or conclusions from all **three areas** of study.  During the defense, the student provides **minimum quality** of synthesis, analysis, and/or creativity. | The student minimally relates examples, facts, or theories **from at least one** area of study. During the defense, the student **lacks depth** of understanding and/or creativity for an issue from multiple perspectives. | The student does **NOT** relate examples, facts, or theories at a basic level. During the defense, the student **fails** to meet minimum Department standards for synthesis and creativity. |  |
| e | **Content** | **Information** | **Information is** | Important information is missing, or there are few supporting details. | **The** |  |  |
|  | **(10)** | **is complete**  **and well** | **complete with**  **basic supporting** | **presentation**  **does not** |
|  |  | **supported by** | **details,** | **include** |
|  |  | **detail,** | **increasing** | **information** |
|  |  | **significantly** | **audience** | **on the major** |
|  |  | **increasing** | **knowledge at** | **points.** |
|  |  | **the** | **least to some** |  |
|  |  | **audience's** | **degree.** |  |
|  |  | **knowledge of** |  |  |
|  |  | **the topic.** |  |  |
| f | **Presentation (10)** | Strong, clear speaking voice easily understood by audience. | Good speaking voice; recovers easily from speaking errors. | Clarity of speech is uneven; delivery is halting. | Control of speaking tone, clarity, and volume is not evident. |  |  |
|  |  | Use of creativity keeps | Creativity apparent, but is not well |  | No evidence of creativity. |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | audience engaged.  Speaker conveys confidence in talking about the topic.  Excellent eye contact with audience throughout presentation.  Use of physical gesture and facial expression conveys energy and enthusiasm. | integrated into presentation.  Speaker is in command of the topic but appears slightly nervous in delivery.  Good eye contact with audience throughout most of the presentation.  Use of physical gesture and facial expression is good, but appears forced or artificial at times. | Limited evidence of creativity.  Speaker is not completely sure of topic but appears nervous or disengaged.  Limited or sporadic eye contact with audience.  Limited or inappropriate use of physical gesture and facial expression. | Speaker is visibly nervous and does not convey interest in the topic.  Speaker does not make eye contact with audience.  Physical gesture and awareness of facial expression are absent. |  |  |

**Rubric #R2: (**Design and development of Project Methodology) **(Project Evaluation Phase-II) Maximum Marks\*: 25**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Level of Achievement | | | | | | | |
|  |  | **Excellent (10)** | **Good (8)** | **Average**  **(6)** | **Acceptable**  **(4)** | **Unacceptable (2)** | **Scor e** |
| a | **Knowledge,**  **Skills, and Research Base**  **(05)** | The student  demonstrates **superior** use and integration of theory, research, and best practices in **three** academic disciplines. The project report shows **sophisticated** use and integration of knowledge bases. | The student  demonstrates **high** quality in use and integration of theory, research, and best practices from **three** academic disciplines.  The Project Report shows **strong** knowledge and integration of knowledge bases. | The student  demonstrates **acceptable** use and integration of theory, research, and best practices from at least **two** disciplines.  The Project Report shows **good** knowledge and use of theory bases, but is limited in rigor and/or integrating three academic disciplines. | The student  demonstrates **minimum** use and integration of theory, research, and best practices from **one or two** academic disciplines.  The Project Report meets a **minimum** standard for knowledge and use of theory base.  Lack of rigor is very apparent. | The student  does **NOT demonstrate** minimum use or integration of theory, research, and best practice.  The Project Report **fails** to meet minimum standards for knowledge and use of theory bases. |  |
| b | **Design**  **Methodology (10)** | Division of problem into modules and good selection of computing framework   Appropriat e  Design methodology  and properly justification | Division of problem into modules and  good selection of computing framework   Design methodology  not properly justified | Division of problem into modules but  Inappropriate selection of computing framework   Design  Methodology not defined properly | Partial division of problem Into modules  And inappropriate  Selection of computing framework   Design Methodology | Modular approach not adopted   Design methodology not defined |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | not defined properly |  |  |
| c | **Planning of Project Work and Team Structure (5)** | Time frame properly  specified and being  followed   Appropriat e  distribution of project work | Time frame properly specified and being followed   Distributin g of project  work inappropriate | Time frame properly specified, but not being followed   Distributio n  of project work un-even | Time frame properly  specified, but not  being followed   Un-even  Distribution of project work and no synchronizatio n | Time frame not properly specified   Inappropriat e  distribution of project work |  |
| d | **Demonstratio n and**  **Presentation (5)** |  Objectives achieved as per time frame   Contents of  Presentations are appropriate and well arranged   Proper eye contact with audience and  clear voice with good  spoken language |  Objectives  achieved as per time  frame   Contents of  Presentations are appropriate but not well arranged   Satisfactor y  demonstration, clear voice with good spoken language but  eye contact not proper |  Objectives  achieved as per time frame   Contents of presentations are appropriate  but not well arranged   Presentatio n  Not satisfactory  and average demonstration |  Objectives Not achieved as per time frame   Contents of  presentations are not  appropriate   Eye contact with few people and  Unclear voice |  No objectives  achieved   Contents of presentations are not appropriate and not well delivered   Poor delivery  of presentation |  |

**Rubric #R3 :** Execution of the project **(Project Evaluation Phase-III) Maximum Marks: 25**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Level of Achievement | | | | | | | |
|  |  | **Excellent (10)** | **Good (8)** | **Average**  **(6)** | **Acceptable**  **(4)** | **Unacceptable (2)** | **Score** |
| a | **Incorporation of Suggestions (5)** | Changes are made  as per modifications  suggested during  evaluation  and new innovations added | Changes are made as per  Modifications  Suggested during  Evaluation and good justification | All major changes are made as per  modifications suggested during evaluation | Few changes are made as per  modifications  suggested during  evaluation | Suggestions during midterm evaluation are not incorporated |  |
| b | **Project Demonstration (10)** | All defined Objectives are achieved   Each Module working well and Properly demonstrated   All modules of project are well integrated and system  working is accurate | All defined Objectives are achieved   Each module  Working well and properly  demonstrated   Integration of all modules not done and system  Working is not  very satisfactory | All defined objectives are achieved   Modules are  Working well in  Isolation and  Properly demonstrated   Modules of project  are not properly  integrated | Some of the defined  objectives are achieved   Modules are  Working well in isolation and properly  demonstrated   Modules of project  are not properly  integrated | Defined objectives  are not achieved   Modules are  not in proper working form that  further leads to failure of integrated  system |  |
| c | **Presentation (10)** |  Contents of presentations are appropriate and well |  Contents  Of presentations are |  Contents |  Contents |  Contents of  presentations |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | delivered   Proper Eye contact  With audience and clear  Voice with  Good spoken language | appropriate and well delivered   Clear voice  with good spoken  language but less  eye contact with  audience | Of presentations are  appropriate but not well delivered   Eye contact with few people and unclear voice | Of presentations are  Not appropriate   Eye contact with  Few people And unclear voice | are not appropriate  and not well delivered   Poor delivery of  presentation |  |

**Rubric #R4 :** Presentation, Demonstration and results discussion **(Project Evaluation Phase-IV)**

**Maximum Marks\*: 30**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Level of Achievement | | | | | | | |
|  |  | **Excellent (5)** | **Good (4)** | **Average**  **(3)** | **Acceptable**  **(2)** | **Unacceptable**  **(1)** | **Score** |
| a | **Incorporation of Suggestions (05)** | Conclusion tied speech together, and message was memorable. | Conclusion restated thesis statement and summarized the ideas presented. | Average conclusion or conclusion did adequately summarize presentation. | Little conclusion, or conclusion did adequately summarize presentation. | No conclusion, or conclusion did not adequately summarize presentation. |  |
| b | **Project**  **Demonstration (05)** | All defined objectives  Are achieved   Each module Working well and Properly demonstrated   All modules of project are well Integrated and  System working is accurate | All defined objectives are  achieved   Each module working  well and properly  demonstrated   Integration of all modules not done and system Working is not  very satisfactory | All defined objectives are achieved   Modules Are working well in isolation and properly  demonstrated   Modules of project  are not properly  integrated | Some of the defined objectives are achieved   Modules are Working well in  Isolation and Properly demonstrated   Modules Of project are not Properly integrated | Defined objectives  are not achieved   Modules are  not in proper working form that  further leads to failure of integrated  system |  |
| c | **Presentation (05)** |  Contents  Of presentations are  appropriate and |  Contents  Of presentations are appropriate and well  delivered |  Contents  Of presentations are appropriate but |  Contents of  presentations are  not appropriate   Eye contact |  Contents of  presentations are not appropriate |  |
|  |  | well delivered |  Clear | not well | and not well |
|  |  |  Proper | voice | delivered | delivered |
|  |  | Eye contact |  |  Eye contact |  Poor |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | With audience and clear voice with  Good spoken language | with good spoken  language but less  eye contact with  audience | with few people and unclear  voice | with few people and  unclear voice | delivery of presentation |  |
| d | **Thinking and Communication (05)** | The presentation conveys deep and thorough understanding of the topic. | The presentation conveys good understanding of the topic, with some lapses. | The presentation seems to convey only limited understanding of the topic. | The presentation does not express main points clearly, thoroughly, or persuasively. |  |  |
|  |  | The speaker's |  |  |  |
|  |  | main points are logical and persuasive. | The speaker's  main points are clear but are not persuasive. | The main  points are not clearly stated or persuasive. |  |
| e | **Organization, Mechanics,**  **and Vocabulary (05)** | The introduction captures audience attention and gives a clear statement of purpose.  The main part of the presentation is well organized, sequential, and well supported by detail.  The closing provides a thorough summary of all of the major points.  The speaker demonstrates | The introduction states the purpose but does not capture the attention of the audience.  The main part of the presentation is organized and sequential with some supporting details.  The closing provides a basic summary of the most major points.  Vocabulary is appropriate to the topic, with some lapses. | The introduction is unclear or fails to capture audience attention.  The body of the presentation is confusing with limited supporting details.  The closing is unclear or does not include many of the major points.  The speaker's topic related vocabulary is limited. | No introduction is used to capture audience attention.  The body of the presentation needs organization and supporting details.  A suitable closing is missing.  The speaker has not mastered key words and phrases relevant to the topic. |  |  |
|  |  | a rich |  |  |  |
|  |  | vocabulary |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | appropriate to the topic |  |  |  |  |  |
| f | **Analysis/Results Conclusions, and/or Product**  **(05)** | The Project Report and/or product demonstrates **sophisticated** levels of understanding and application of the experience.  The Project Report reflects **superior** learning and/or creativity. | The Project Report and/or product demonstrates **strong** levels of understanding and application of the experience.  The Project Report reflects **solid** learning and/or creativity. | The Project Report and/or product demonstrates **moderate** levels of understanding and application of the experience.  The Project Report reflects **moderate** learning and/or creativity. | The Project Report and/or product demonstrates a **minimum** level of understanding and application of the experience.  The Project Report reflects **basic** understanding but lacks academic rigor. | The Project Report does **NOT**  **demonstrate** a minimum level of understanding and application of the experience.  The Project Report **fails** to meet minimum standards for academic rigor. |  |

**Rubric #R5: Project Report Evaluation (Project Evaluation Phase-V)**

**Maximum Marks: 10 (Conduct for 100 marks and reduce it to 10 marks)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Level of Achievement | | | | | | | |
|  |  | **Excellent (25)** | **Good (20)** | **Average (15)** | **Acceptable (10)** | **Unacceptabl e**  **(5)** | **Scor e**  **100** |
| a | **Project Report(20)** |  Project report  is according to the specified format   Reference s and  citations are appropriate and well mentioned |  Project report  is according to the  specified format   References and citations are appropriate but not  Mentioned well |  Project report  is according to  the specified format but  some mistakes   In-sufficie nt |  Project report is not fully according to the  Specified format   Insufficien t references and citations |  Project report not prepared according to  the specified format   Reference s and citations are not  appropriate |  |
|  |  |  |  | references and |  |  |
|  |  |  |  | citations |  |  |
| b | **Descript** | Complete | Complete | Complete explanation  of the key concepts but  little relevance to literature   Insufficien t description of the technical requirements of the project | All key  Concepts are not Explained and very little relevance to literature   Insufficien t description of the technical requirements of the project | Inappropriate |  |
|  | **ion of**  **Concepts and** | explanation of  the key | Explanation of the key concepts   In-sufficient | Explanation of the key  concepts |
|  | **Technical Details(25)** | concepts   Strong description of the technical | Description of the  Technical requirements of the  Project |  Poor description of  the technical requirements of the project |
|  |  | requirements |  |  |
|  |  | of the project |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| c | **Illustration(1 0)** | **Presentation**  **aids are clearly** | Presentation aids are appropriate to the topic but are not well integrated into the overall presentation. | Presentation aids do not enhance audience understanding or are confusing. | No presentation aids. |  |  |
|  |  | **linked to the** |  |
|  |  | **material,** |  |
|  |  | **well** |  |
|  |  | **executed,** |  |
|  |  | **and** |  |
|  |  | **informative** |  |
|  |  | **to the** |  |
|  |  | **audience.** |  |
| d | **Contribution s and Work Ethic (15)** | *In addition to Proficient criteria:* The group member made up for work left undone by other group members and demonstrates willingness to spend significant time outside of class/school to complete the project. | Group member was prepared to work each day, met due dates by completing assignments/dutie s, and worked hard on the project most of the time. If absent, other group members knew the reason and progress was not significantly impeded. | Group member was often off-task, did not complete assignments or duties, or had attendance problems that significantly impeded progress on project. May have worked hard, but on  relatively |  |  |  |
|  |  |  |  | unimportant |
|  |  |  |  | parts of the |
|  |  |  |  | project. |
| e | **Leadership and Initiative(10)** | *In addition to Proficient*  *criteria:* The | Group members played an active  role in generating | Group member  played a |  |  |  |
|  |  | group | new ideas, took | passive role, |
|  |  | member | initiative in | generating |
|  |  | provided | getting tasks | few new |
|  |  | leadership to | organized and | ideas; tended |
|  |  | the group by | completed, and | to do only |
|  |  | thoughtfully | sought help when | what they |
|  |  | organizing | needed. | were told to |
|  |  | and dividing |  | do by others |
|  |  | the work, |  | or did not |
|  |  | checking on |  | seek help |
|  |  | progress, or |  | when needed. |
|  |  | providing |  |  |
|  |  | focus and |  |  |

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|  |  | direction for the project. |  |  |  |  |  |
| f | **Conclusion and**  **Discussion (20)** | Results are presented in  very appropriate  manner   Project work is |  Results are presented in good manner   Project work summary and conclusion not very  appropriate | Results presented are  not much satisfactory   Project work summary and conclusion not Very appropriate   Future extensions in the project are specified |  Results presented  are not much satisfactory   Project work summary and conclusion not very appropriate   Future extensions in the project are not specified |  Results are not  presented properly   Project work  is not |  |
|  |  | Well summarized and concluded |  Future extensions in the project are specified | summarized  and concluded |
|  |  |  Future extensions in |  |  Future  extensions in |
|  |  | the project are well specified |  | the project  are not specified |

**Evaluation by Guide**

**Weightage : 50 %**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Level of Achievement | | | | | | | |
|  |  | **Excellent** | | **Satisfactory** | | **Unsatisfactory** | **Score**  **(40)** |
| a | **Self Motivation and**  **Determination(10)** | Approaches the project with self motivation and follows it through to completion | | Completes the project  But sometimes lacks self motivation | | Lacks self motivation and determination |  |
| b | **Working**  **within a Team(10)** | Collaborates and communicates in a group situation and integrates the views  of others | | Exchanges some views but requires guidance to collaborate with others. | | Makes little or no attempt to collaborate in a group situation |  |
| c | **Technical Knowledge and Awareness related to the**  **Project(20)** | Extensive knowledge  related to the project, collection and study of related literature | | Fair knowledge related to  the project and collection & study of related literature | | Lacks sufficient  Knowledge and collection & study of related literature |  |
| Level of Achievement | | | | | | | |
|  |  | **Excellent**  **(10)** | **Good (8)** | | **Satisfactory**  **(6)** | **Unsatisfactory**  **(2)** | **Score**  **(10)** |
| d | **Regularity(10)** | Reports to the guide  Regularly and consistent in | Not very regular  But consistent in the work | | Reports to the guide | Irregular in attendance and |  |

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|  |  | following the work assigned by the guide |  | but lacks  consistency | inconsistent in  work |  |

**CIE Marks**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl.  No. | USN | Name | I  Phase | II  Phase | III  Phase | IV  Phase | V  Phase | Total (100) |
|  |  |  |  |  |  |  |  |  |
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**Guide’s signature:**

**Panel Member’s signature:**

**Publication Details**

**Write the action points for publishing the work in a reputed journal. This has to be updated in every phase evaluation**

|  |  |
| --- | --- |
| **Phase 1** |  |
| **Phase 2** |  |
| **Phase 1** |  |
| **Phase 2** |  |
| **Phase 5** |  |

**Guide Signature :**

**Details of the published work**

|  |  |
| --- | --- |
| **Title of paper** |  |
| **List of authors** |  |
| **Name of Journal** |  |
| **ISSN Number** |  |
| **Indexing details** |  |
| **Volume, Month, Year** |  |

**Guide Signature :**

**Department of Electronics and Communication Engineering**

**PROGRAM OUTCOMES (POs)**

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation for the solution of complex engineering problems.
2. **Problem analysis**: Identify, formulate, research literature, and analyse 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 t h e specified needs with appropriate consideration for public health and safety, and 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 modelling 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 t h e 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. **Life-long learning**: Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

|  |  |
| --- | --- |
| **Course Learning Objectives** | |
| **The students will be able to** | |
| **1** | Acquire the ability to make links across different areas of knowledge and to generate, develop  and evaluate ideas and information so as to apply these skills to the project task. |
| **2** | Acquire the skills to communicate effectively and to present ideas clearly and coherently to a  specific audience in both written and oral forms. |
| **3** | Acquire collaborative skills through working in a team to achieve common goals. |
| **4** | Self-learn, reflect on their learning and take appropriate action to improve it. |
| **5** | Prepare schedules and budgets and keep track of the progress and expenditure. |

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| **Course Outcomes:** | |
| **1** | Apply knowledge of mathematics, science and engineering to solve respective engineering  domain problems. |
| **2** | Design, develop, present and document innovative/multidisciplinary modules for a complete  engineering system. |
| **3** | Use modern engineering tools, software and equipment to solve problem and engage in life-long  learning to follow technological developments. |
| **4** | Function effectively as an individual, or leader in diverse teams, with the understanding of  professional ethics and responsibilities. |

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|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** |  |  |  |  |  |  |  |  |  |  |  |  |
| **CO2** |  |  |  |  |  |  |  |  |  |  |  |  |
| **CO3** |  |  |  |  |  |  |  |  |  |  |  |  |
| **CO4** |  |  |  |  |  |  |  |  |  |  |  |  |

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|  | **PSO1** | **PSO2** | **PSO3** | **PSO4** |
| **CO1** |  |  |  |  |
| **CO2** |  |  |  |  |
| **CO3** |  |  |  |  |
| **CO4** |  |  |  |  |

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

* + **PEO1** To apply concepts of mathematics, science and computing to Electronics and Communication Engineering
  + **PEO2** To design and develop interdisciplinary and innovative systems.
  + **PEO3** To inculcate effective communication skills, team work, ethics, leadership in preparation for a successful career in industry and R & D organizations.

### PROGRAM SPECIFIC OUTCOMES (PSOS)

|  |  |
| --- | --- |
| **PSO** | **Description** |
| **PSO1** | Should be able to clearly understand the concepts and applications in the field of Communication/networking, signal processing, embedded systems and semiconductor technology. |
| **PSO2** | Should be able to associate the learning from the courses related to Microelectronics, Signal processing, Microcomputers, Embedded and Communication Systems to arrive at solutions to real world problems. |
| **PSO3** | Should have the capability to comprehend the technological advancements in the usage of modern design tools to analyze and design subsystems/processes for a variety of applications. |
| **PSO4** | Should possess the skills to communicate in both oral and written forms, the work already done and the future plans with necessary road maps, demonstrating the practice of professional ethics and the concerns for societal and environmental wellbeing. |

**Lead Society: Institute of Electrical and Electronics Engineers (IEEE)**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**VISION**

Imparting quality technical education through interdisciplinary research, innovation and teamwork for developing inclusive & sustainable technology in the area of Electronics and Communication Engineering.

### MISSION

* + To impart quality technical education to produce industry-ready engineers with a research outlook.
  + To train the Electronics & Communication Engineering graduates to meet future global challenges by inculcating a quest for modern technologies in the emerging areas.
  + To create centres of excellence in the field of Electronics & communication Engineering with industrial and university collaborations.
  + To develop entrepreneurial skills among the graduates to create new employment opportunities.

## VISION

Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, with a Focus on Sustainable and Inclusive Technology

## MISSION

To deliver outcome-based Quality education, emphasizing on experiential learning with the state-of-the-art infrastructure.

To create a conducive environment for interdisciplinary research and innovation.

To develop professionals through holistic education focusing on individual growth, discipline, integrity, ethics and social sensitivity.

To nurture industry-institution collaboration leading to competency enhancement and entrepreneurship.

To focus on technologies that are sustainable and inclusive, benefiting all sections of the society.



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**RV COLLEGE OF ENGINEERING®**

**(Autonomous Institution Affiliated to VTU, Belagavi) RV Vidyaniketan Post, Mysuru Road, Bengaluru 560059**