**GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA**

**An Autonomous College Under UGC Act [2(f) and 12(B)]**

(Department of Electrical Engineering)

**RUBRICS FOR MINOR PROJECT EVALUATION**

**Rubrics Review**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Review #** | **Agenda** | **Assessment** | **Review Assessment Weightage** | **Over all Weightage** |
| **Review 1** | Project Synopsis/ Proposal Evaluation | Rubric R1 | (9) | (60) |
| **Review 2** | Mid-Term Project Evaluation | Rubric R2 | (12) |
| **Review 3** | End Semester Project Evaluation | Rubric R3 | (18) |
| **Review 4** | Project Report Evaluation | Rubric R4 | (12) |
| **Review 5** | Evaluation by Guide | Rubric R5 | (9) |
| **External Evaluation** | | | (40) | (40) |
| **Total** | | | (100) | (100) |

**Rubric #R1: Project Synopsis/ Proposal Evaluation**

**Maximum Marks\*: 9**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Level of Achievement** | | | | | |
|  |  | **Good (3)** | **Average (2)** | **Poor (1)** | **Score** |
| **a** | **Identification of Problem Domain and Detailed Analysis** | Detailed and extensive explanation of the purpose and need of the project | Average explanation of the purpose and need of the project | Minimal explanation of the purpose and need of the project |  |
| **b** | **Study of the Existing Systems and Feasibility of Project Proposal** | Detailed and extensive explanation of the specifications and the limitations of the existing systems | Moderate study of the existing systems; collects some basic information | Minimal explanation of the specifications and the limitations of the existing systems; incomplete information |  |
| **c** | **Objectives and Methodology of the Proposed Work** | All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified | Incomplete justification to the objectives proposed; Steps are mentioned but unclear; without justification to objectives | Objectives of the proposed work are either not identified or not well defined; Incomplete and improper specification |  |

**Rubric #R2: Mid-term Project Evaluation**

**Maximum Marks\*: 12**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Level of Achievement** | | | | | | |
|  |  | **Excellent (4)** | **Good (3)** | **Average (2)** | **Poor (1)** | **Score** |
| **a** | **Design Methodology** | * Divison of problem into modules and good selection of computing framework * Appropriate design methodology and properly justification | * Divison of problem into modules and good selection of computing framework * Design methodology not properly justified | * Divison of problem into modules but inappropriate selection of computing framework * Design methodology not defined properly | * Modular approach not adopted * Design methodology not defined |  |
| **b** | **Planning of Project Work and Team Structure** | * Time frame properly specified and being followed * Appropriate distribution of project work | * Time frame properly specified and being followed * Distribution of project work inappropriate | * Time frame properly specified, but not being followed * Distribution of project work un-even | * Time frame not properly specified * In-appropriate distribution of project work |  |
| **c** | **Demonstration and Presentation** | * 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 * Satisfactory 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 * Presentation not satisfactory and average demonstration | * No objectives achieved * Contents of presentations are not appropriate and not well delivered * Poor delivery of presentation |  |

**Rubric #R3: End Semester Internal Project Evaluation**

**Maximum Marks\*: 18**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Level of Achievement** | | | | | | |
|  |  | **Excellent (6)** | **Good (4)** | **Average (2)** | **Poor (1)** | **Score** |
| **a** | **Incorporation of Suggestions** | Changes are made as per modifications suggested during mid term evaluation and new innovations added | Changes are made as per modifications suggested during mid term evaluation and good justification | Few changes are made as per modifications suggested during mid term evaluation | Suggestions during mid term evaluation are not incorporated |  |
| **b** | **Project**  **Demonstration** | * 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 veey satisfactory | * 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** | * Contents of presentations are appropriate and well delivered * Proper eye contact with audience and clear voice with good spoken language | * Contents of presentations are appropriate and well delivered * Clear voice with good spoken language but less eye contact with audience | * Contents of presentations are not appropriate * Eye contact with few people and unclear voice | * Contents of presentations are not appropriate and not well delivered * Poor delivery of presentation |  |

**Rubric #R4: Project Report Evaluation**

**Maximum Marks\*: 12**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Level of Achievement** | | | | | | |
|  |  | **Excellent (4)** | **Good (3)** | **Average (2)** | **Poor (1)** | **Score** |
| **a** | **Project Report** | * Project report is according to the specified format * References 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-sufficient references and citations | * Project report not prepared according to the specified format * References and citations are not appropriate |  |
| **b** | **Description of Concepts and Technical Details** | * Complete explanation of the key concepts * Strong description of the technical requirements of the project | * Complete explanation of the key concepts * In-sufficient description of the technical requirements of the project | * Complete explanation of the key concepts but little relevance to literature * In-sufficient description of the technical requirements of the project | * Inapproiate explanation of the key concepts * Poor description of the technical requirements of the project |  |
| **c** | **Conclusion and Discussion** | * Results are presented in very appropriate manner * Project work is well summarized and concluded * Future extensions in the project are well specified | * Results are presented in good manner * 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 specified | * Results are not presented properly * Project work is not summarized and concluded * Future extensions in the project are not specified |  |

**Rubric #R5: Evaluation by Guide**

**Maximum Marks\*: 9**

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| --- | --- | --- | --- | --- | --- |
| **Level of Achievement** | | | | | |
|  |  | **Good (3)** | **Average (2)** | **Poor (1)** | **Score** |
| **a** | **Working within a Team** | 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 |  |
| **b** | **Technical Knowledge and Awareness related to the Project** | Extensive knowledge related to the project | Fair knowledge related to the project | Lacks sufficient knowledge |  |
| **c** | **Regularity** | Reports to the guide regularly and consistent in work | Not very regular but consistent in the work | Irregular in attendance and inconsistent in work |  |