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### Final Year Project (FYP) Assessment Policy

### FYP 2022-2023

Final year project will be assessed in two phases i.e. FYP-I and FYP-II by advisor, FYP committee and externals. The advisor assesses the project out of 60% marks, whereas FYP committee and external examiners assesses each project out of 40% marks. FYP committee use 20% marks throughout the FYP-I for quality enhancement in consultation with advisors. External examiners have 20% marks to evaluate the project at the end of FYP-I. Final year project evaluation criteria is shown in the Table 1.

Table 1: Project evaluation criteria for CS program

|  |  |  |
| --- | --- | --- |
| **Evaluator(s)** | **FYP-I (7th)** | **FYP-II (8th)** |
| Advisor | 60% | 60% |
| FYP Committee | 20% | 20% |
| Externals | 20% | 20% |

Details of FYP assessment weight for FYP-I and FYP-II are provided in subsequent sections.

## FYP-I Assessment

Assessment criteria for the FYP advisor is provided in the Table 2.

Table 2: Assessment criteria for FYP-I for Advisor

|  |  |  |
| --- | --- | --- |
| **Criteria** | **Marks (60)** | **Assessment Method** |
| Project Proposal | 9 | Rubrics available in **Appendix I** |
| Project Design Document | 15 | Rubrics available in **Appendix II** |
| Project Implementation  *(25% implementation is expected)* | 16 | Rubrics available in **Appendix III** |
| Project Progress | 10 | Rubrics available in **Appendix IV** |
| Internal Evaluation | 10 | Rubrics available in **Appendix XIV** |

FYP committee will be responsible to schedule the deliverables of the FYP and conduct seminars for students. FYP committee will ensure timely submission of the deliverables and will also check that deliverable template is followed. Assessment criteria for the committee is provided in the Table 3.

Table 3: FYP committee's assessment criteria for FYP-I

|  |  |  |
| --- | --- | --- |
| **Criteria** | **Marks (20)** | **Assessment Method** |
| Project Proposal | 5 | Rubrics available in  **Appendix** V |
| Seminar Participation | 5 | Attendance |
| Project Design Document | 10 | Rubrics available in **Appendix VI** |

Externals will evaluate the project at the end of the FYP-I through project presentation/poster. Externals will evaluate the project using the criteria given in the **Appendix VII.**

## FYP-II Assessment

Assessment criteria for the advisor is provided in the Table 4.

Table 4: Advisor's assessment criteria for FYP-II

|  |  |  |
| --- | --- | --- |
| **Criteria** | **Marks(60)** | **Assessment Method** |
| Business Plan, Test design document/ Research paper draft | 9 | Rubrics available in **Appendix VIII** |
| Project Implementation | 19 | Rubrics available in **Appendix IX** |
| Project Progress | 10 | Rubrics available in **Appendix IV** |
| Project Report complete | 12 | Rubrics available in **Appendix X** |
| Internal Evaluation | 10 | Rubrics available in **Appendix XV** |

FYP committee will evaluate the project on the basis of the criteria given in the Table 5.

Table 5: FYP committee's assessment criteria for FYP-II

|  |  |  |
| --- | --- | --- |
| **Criteria** | **Marks (20)** | **Assessment Method** |
| Business Plan, Test design document/ Research paper draft | 5 | Rubrics available in **Appendix XI** |
| Seminar Participation | 5 | Attendance |
| Project Report Document | 10 | Rubrics available in **Appendix XII** |

Externals will evaluate the project at the end of the FYP-II through project presentation. Externals will evaluate the project using the criteria given in the **Appendix XIII.**

# Appendix I

**Rubrics for Project Proposal (Advisor)**

The evaluation criteria of Project Proposal for FYP advisor will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-I (Project Proposal \_ Advisor)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (9)** | **CLO** |
| 1 | Comprehensive related work with clearly identified gaps | 2 | CLO-2 |
| 2 | Problem statement is clearly defined | 2 | CLO-1 |
| 3 | Objectives are mentioned | 1 | CLO-10 |
| 4 | Proposed methodology | 3 | CLO-3 |
| 5 | Tools & technologies | 1 | CLO-5 |

# Appendix II

**Rubrics for Project Design Document (Advisor)**

The evaluation criteria of Project Design document for FYP advisor will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-I (Project Design Document \_ Advisor)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (15)** | **CLO** |
|  | ***Software Project*** |  |  |
| 1 | Requirement Analysis with wireframes | 3 | CLO-3 |
| 2 | Use case Diagram | 3 | CLO-3 |
| 3 | System design i.e. Class Diagram | 3 | CLO-3 |
| 4 | State, sequence and activity diagram | 3 | CLO-3 |
| 5 | Database design i.e. ER Diagram | 3 | CLO-3 |
|  | ***Research Project*** |  |  |
| 1 | Detailed literature review | 4 | CLO-2 |
| 2 | Proposed methodology | 4 | CLO-3 |
| 3 | Data collection techniques | 4 | CLO-3 |
| 4 | Experiment design | 3 | CLO-3 |

# Appendix III

**Rubrics for FYP-I Implementation (Advisor)**

The evaluation criteria of FYP-I Implementation for FYP advisor will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-I (Project Implementation \_ Advisor)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (21)** | **CLO** |
|  | ***Software Project*** |  |  |
| 1 | 25% of identified features are implemented | 12 | CLO-5 |
| 2 | Implementation is aligned with system design i.e. class diagram | 4 | CLO-3 |
|  | ***Research Project*** |  |  |
| 1 | Data Collected | 9 | CLO-3 |
| 2 | Toolkit selection | 4 | CLO-4 |
| 3 | Initial results | 3 | CLO-3 |

# Appendix IV

**Rubrics for Project Progress (Advisor)**

Advisor will monitor project progress twice a month using the performa given below. In FYP-I at least four meetings are expected after synopsis presentation & approval. Each meeting marks will be 2.5 i.e.(2.5\*4=10).

In FYP-II at least four meetings are expected in 8th semester. Each meeting marks will be 2.5 i.e.(2.5\*4=10).

|  |  |
| --- | --- |
| A close up of a sign  Description automatically generated | **University of Engineering and Technology, New Campus**  Department of Computer Science  Final Year Project —Minutes of Meeting  Progress Report |

|  |  |  |  |
| --- | --- | --- | --- |
| SECTION -1  (to be filled by the STUDENT prior to meeting) | | | |
| Title of Project: | | | |
| Name of the Supervisor: | | | |
| Student Roll Number: | Student Name: | | Marks: |
|  |  | |  |
|  |  | |  |
|  |  | |  |
|  |  | |  |
| Date: | | Date of previous meeting: | |
| Work undertaken since last meeting/ Last milestone achieved: | | | |
| Issues/progress you would like to discuss in this meeting: | | | |
| SECTION -2  (to be completed by the SUPERVISOR at the time of meeting) | | | |
| Work student should undertake between now and next meeting (next meeting agenda points): | | | |
| SECTION 3 | | | |
| Date of next meeting: | Student (Team Leader): | | |
| Signatures: |
| Supervisor: | | |

# Appendix V

**Rubrics for Project Proposal (FYP Committee)**

The evaluation criteria of Project Proposal for FYP committee will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-I (Project Proposal \_ FYP Committee)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (5)** | **CLO** |
| 1 | Timely submission of deliverable | 2 | CLO-11 |
| 2 | Proposal template | 3 | CLO-10 |

# Appendix VI

**Rubrics for Project Design Document (FYP Committee)**

The evaluation criteria of Project Design Document for FYP committee will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-I (Project Design Document \_ FYP Committee)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (10)** | **CLO** |
| 1 | Timely submission of deliverable | 5 | CLO-9 |
| 2 | Design document template is followed | 5 | CLO-9 |

# Appendix VII

The evaluation criteria of FYP-I by External evaluator(s) will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-I (Final Presentation\_ External)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (20)** | **CLO** |
| 1 | Ingenuity of idea/ Technology | 4 | CLO-2 |
| 2 | Comprehension of problem and its impact on society. | 4 | CLO-6 |
| 3 | Design process/ Methodology (Research Project) | 4 | CLO-3 |
| 4 | Oral communication | 4 | CLO-7 |
| 5 | Prototype / Data collection | 4 | CLO-3 |

# Appendix VIII

**Rubrics for Test Design Document (Advisor)**

The evaluation criteria of Project Test Design Document for advisor will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-II (Project Test Design Document \_ Advisor)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (9)** | **CLO** |
| 1 | Testing strategy is defined | 3 | CLO-4 |
| 2 | Features to be tested are mentioned clearly | 3 | CLO-3 |
| 3 | Test cases for each feature are mentioned | 3 | CLO-3 |

**Rubrics for Research Paper Draft(Advisor)**

The evaluation criteria of draft research paper for advisor will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-II (Project Test Design Document \_ Advisor)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks(9)** | **CLO** |
| 1 | Training & Testing data and Evaluation Metrics are mentioned clearly | 3 | CLO-3 |
| 2 | Experimental setup is defined | 3 | CLO-3 |
| 3 | Results, discussion and error analysis is described | 3 | CLO-4 |

# Appendix IX

**Rubrics for FYP-II Implementation (Advisor)**

The evaluation criteria of FYP-II implementation for FYP advisor will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-1I (Project Implementation \_ Advisor)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (19)** | **CLO** |
|  | ***Software Project*** |  |  |
| 1 | Proposed features are implemented | 13 | CLO-3 |
| 2 | Implementation is aligned with system design | 6 | CLO-2 |
|  | ***Research Project*** |  |  |
| 1 | Proposed features are implemented | 13 | CLO-3 |
| 2 | Error analysis is carried out | 6 | CLO-2 |

# Appendix X

**Rubrics for Project Report (Advisor)**

The evaluation criteria of FYP Project Report for advisor will be based on the following parameters along with the marks distribution.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-II (Project Report \_ Advisor)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (12)** | **CLO** |
| 1 | Introduction& Abstract | 2 | CLO-1 |
| 2 | Background Study & Requirement Specifications | 2 | CLO-2 |
| 3 | System design | 2 | CLO-3 |
| 4 | Implementation | 2 | CLO-5 |
| 5 | Testing | 2 | CLO-7 |
| 6 | Conclusion | 2 | CLO-12 |

# Appendix XI

**Rubrics for Test Design Document (FYP Committee)**

The evaluation criteria of Test Design Document for FYP committee will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-1I (Test Design Document \_ FYP Committee)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (4)** | **CLO** |
| 1 | Timely submission of deliverable | 2 | CLO-10 |
| 2 | Test Design document template is followed | 2 | CLO-10 |

# Appendix XII

**Rubrics for Project Report (FYP Committee)**

The evaluation criteria of Project Report for FYP committee will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-II (Project Report \_ FYP Committee)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (10)** | **CLO** |
| 1 | Timely submission of deliverable | 3 | CLO-9 |
| 2 | Project Report template is followed | 5 | CLO-10 |
| 3 | Project plagiarism is less than 19% | 2 | CLO-8 |

# Appendix XIII

FYP rubrics for the external evaluation are given below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Level** | **Barely acceptable** | **Basic** | **Good** | **Very good** | **CLO** |
| **Points** | **0-0.5 point** | **1 point** | **2 points** | **3 points** |  |
| Ingenuity of Idea/ Use of technology | * Basic concepts used correctly * Lack in use of Technology | * Superficial usage of new concepts * Understanding of technology, with basic understanding | * Minor innovative work * Technology concepts / technique, with good understanding | * Innovative work with research value * New concepts and Technology used frequently and solve technical difficulties; | CLO5 |
| Design Process | * Obvious solution, sketchy functionalities * Less design involved | * Simple, yet mostly complete design and solution * solves the stated problem with usable interface | * Complete solution with significant functionalities * Solve the problem with User-friendly interface | * Provide a design solution to complex problems; * Demonstrated through a working model or experiment | CLO3 |
| Functionality/Features/Testing | * Bare formulation * Bare understanding of the problem, with scarce knowledge of relevant material | * Basic formulation * Basic understanding of the problem, but lack appropriate study of relevant material | * Clear formulation * Good understanding of the problem, with study of relevant material * Good system analysis | * Clear formulation with well-defined scope * Very good understanding of the problem and relevant material | CLO2 |
| Recommend innovation in future work | No Idea | Basic information but no implementation details | Good understanding and know how to implement | Very good understanding and to some extent explored the recommended solution | CLO12 |
| **Level** | **Barely acceptable** | **Basic** | **Good** | **Very good** | **CLO** |
| **Points** | **0-0.5 point** | **1 point** | **1.5 points** | **2 points** |  |
| Comprehension of the larger context of the problem and appreciation of the impact of the proposed solutions to the society at large | * Complete disregard for such issues | * Minor interest in the relationship between society, and their engineering problem. * No effect on proposed solutions | * Significant interest and appreciation of the impact of their solutions to the society at large. * Design impacted to some degree by such considerations | * Deep appreciation of the relationship between society and the engineer * Engineering design fundamentally determined by the impact on society.. | CLO6 |
| Realization of the importance of environment and sustainability | * Complete ignorance about environmentally responsible, sustainable engineering solutions | * Minor interest in environment and sustainable engineering * No effect on engineering design | * Significant interest in environment and sustainable development * Minor impact on engineering design | * Deep appreciation of the importance of environmentally friendly and sustainable engineering solutions * Design fundamentally impacted by these considerations | CLO7 |
| Oral communication | * Presentation does not have a clear organization * Points are vague * Multimedia makes the presentation worse | * Presentation has clear organizational structure * Some points are vague * Reads off the slides | * Presentation has clear organizational structure * Point are mostly clear and logical * Does not read from the slides | * Presentation has a clear organizational structure * Points are logical and lucid. * Engages the audience with his presentation style and effective use of multimedia | CLO11 |
| Documentation | * No Format and No report structure are followed * Frequent errors in spelling and grammar * Barely readable | * Format and report structure are mostly followed * Some errors in spelling and grammar * Readable | * Format and report structure are adequate * A few errors in spelling and grammar * Readable and easy to understand * A few inaccurate or irrelevant points | * Well proofread for format and report structure * Clear, Readable and easy to understand * Graphs and diagrams used appropriately | CLO10 |

# Appendix XIV

The evaluation criteria of FYP-I by internal evaluator(s) will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
| **FYP-I (Final Presentation\_ Internal)** | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (10)** | **CLO** |
| 1 | Ingenuity of idea/ Technology | 2 | CLO-2 |
| 2 | Comprehension of problem and its impact on society. | 2 | CLO-4 |
| 3 | Design process/ Methodology (Research Project) | 2 | CLO-3 |
| 4 | Oral communication | 2 | CLO-7 |
| 5 | Prototype / Data collection | 2 | CLO-3 |

# Appendix XV

**Rubrics for FYP-II Internal Evaluation**

The evaluation criteria of FYP-II implementation for internal evaluation committee will be based on the following parameters along with their marks.

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **Sr. No.** | **Evaluation criteria** | **Marks (10)** | **CLO** |
|  | ***Software Project*** |  |  |
| 1 | Proposed features are implemented | 7 | CLO-4 |
| 2 | Implementation is aligned with system design | 3 | CLO-3 |
|  | ***Research Project*** |  |  |
| 1 | Results are improved through principles | 7 | CLO-5 |
| 2 | Error analysis is carried out | 3 | CLO-4 |