**Balochistan University of Information Technology, Engineering and Management Sciences (BUITEMS)**

**Faculty of Information and Communication Technology (FICT)**

**Rubrics for Problem Based Learning (PBL)**

Subject: \_\_\_\_ \_machine learning\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Department: \_\_\_software engineering\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Semester: \_\_\_\_\_\_\_\_\_\_\_\_5th\_\_\_\_\_\_\_\_ Session: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student name: \_\_\_\_\_\_\_ Muhammad Ibrahim Shah Mudasir irshad Muhammad haris \_\_\_\_\_\_\_\_\_\_\_\_\_ CMS ID : \_56946,55945,56639\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- |
| **Performance Indicator** | **Unsatisfactory** | **Average** | **Good** | **Excellent** | **Score** |
| **Understands the Problem (15 Marks)** | Doesn't understand enough to get started or make progress. | Understands enough to solve part of the problem. | Understands the problem. | Understands the problem and Identifies the approach before starting the problem. |  |
| **0-3** | **4-7** | **8-11** | **12-15** |
| **Uses Information for Problem Solving (10 Marks)** | Used wrong information in trying to solve the problem. | Used not all of the relevant information  in trying to solve the problem. | Used all relevant information in trying to solve the problem. | Used implied information not readily  apparent in trying to solve the problem. |  |
| **0-1** | **2-4** | **5-7** | **8-10** |
| Methodology/Approach  (25 Marks) | Unable to solve the problem or the attempted solution shows inadequate knowledge of engineering, science and mathematics. | Demonstrates the ability to apply some principles of engineering, science and mathematics to solve the problem but not correctly. | Demonstrates the ability to correctly apply principles of engineering, science and mathematics to solve the problem with some guidance. | Demonstrates the ability to correctly apply all the appropriate principles of engineering, science and mathematics to solve the problem. |  |
| 0-5 | 6-11 | 12-18 | 19-25 |
| Results, Analysis and Conclusion  (25 Marks) | Fails to interpret the results, analysis and conclusion. | Demonstrates the results, however, the analysis and conclusion are not provided. | Demonstrates the clear results, analysis and conclusion. | Demonstrates the detailed results, analysis, conclusion and future recommendations. |  |
| 0-5 | 6-11 | 12-18 | 19-25 |
| **Report Writing**  **(10 Marks)** | The document has poor organization and formatting with many grammatical and spelling errors. The appropriate format is not followed. | The document has some organization and formatting with few errors. The appropriate format is followed in few sections of the document. | The document is organized, properly formatted, and error free. The appropriate format is followed. | The document is well organized, properly formatted, and error free. The appropriate format is precisely followed. |  |
| **0-1** | **2-4** | **5-7** | **8-10** |
| **Presentation and Viva** **Voce**  **(15 Marks)** | Presentation slides have poor organization and formatting. Student is not prepared and making no attempts to engage audience. Student cannot answer to questions. | Presentation slides have some organization with appropriate graphics and formatting. Student is somewhat prepared and making limited attempts to engage audience. Student feels difficulty to answer questions. | Presentation slides are organized and properly formatted. Student is prepared and delivers presentation while engaging the audience. Student responds to all questions properly. | Presentation slides are well organized and properly formatted. Student is well prepared and delivers clear and continuous presentation while effectively engaging the audience. Student responds to all questions properly and accurately. |  |
| **0-3** | **4-7** | **8-11** | **12-15** |
| **Total Marks obtained out of 100** | | | | | X |

Marks obtained out of Y = (X/100)×Y ; Y is the total marks of PBL

Instructor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_