LAB Manual

PART A

(PART A : TO BE REFFERED BY STUDENTS)

**Experiment No.05**

**A.1 Aim:**

Implement a program to estimate the cost of a project.

Prepare cost estimation for selected problems.

**A.2 Prerequisite:**

* Project Goals
* Target Audience
* Types of software
* Size of the project
* Development team size

**A.3 Outcome:**

**After successful completion of this experiment students will be able to:**

1. Estimate the productivity
2. Estimate the cost of each functionality of a project

**A.4 Theory:**

The Function Point Analysis technique is used to analyze the functionality delivered by software and Unadjusted Function Point (UFP) is the unit of measurement.

### ****Objectives of FPA:****

* The objective of FPA is to measure the functionality that the user requests and receives.
* The objective of FPA is to measure software development and maintenance independently of the technology used for implementation.
* It should be simple enough to minimize the overhead of the measurement process.
* It should be a consistent measure among various projects and organizations.

**A.5 Procedure/Algorithm:**

* Count the number of functions of each proposed type.
* Compute the Unadjusted Function Points(UFP).
* Find Total Degree of Influence (TDI).
* Compute Value Adjustment Factor (VAF).

VAF = (TDI \* 0.01) + 0.65

* Find the Function Point Count (FPC).

FPC = UFP \* VAF

PART B

(PART B : TO BE COMPLETED BY STUDENTS)

***(Students must submit the soft copy as per following segments within two hours of the practical. The soft copy must be uploaded on the Blackboard or emailed to the concerned lab in charge faculties at the end of the practical in case there is no Black board access available)***

|  |  |
| --- | --- |
| Roll No. | Name: |
| Class : | Batch : |
| Date of Experiment: | Date of Submission |
| Grade : |  |

**B.1 Answers of Task to be written by student:**

***(Paste your answers completed during the 2 hours of practical in the lab here)***

**B.2 Observations and learning:**

***(Students are expected to comment on the output obtained with clear observations and learning for each task/ sub part assigned)***

**B.3 Conclusion:**

*(****Students must write the conclusion as per the attainment of individual outcome listed above and learning/observation noted in section B.3)***