**User Inputs:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Inputs** | **Complexity** |
| 1 | Sign In | Average |
| 2 | Sign Up | High |
| 3 | Create a Course | High |
| 4 | Create a Test | High |
| 5 | Enroll Course | High |
| 6 | QNA Section | Low |
| 7 | Give a Review/Rating | Low |
| 8 | Log Out | Average |

**Internal Logic Files:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Internal Logical Files** | **Complexity** |
| 1 | Profile Photo | Average |
| 2 | Course Image | Low |

**User Outputs:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Outputs** | **Complexity** |
| 1 | View All Course | High |
| 2 | View Teacher Profile | Low |
| 3 | View Enroll Courses | Average |
| 4 | View Result | High |
| 5 | View Profile | Average |

**User Inquiries:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Inquiries** | **Complexity** |
| 1 | Search Course | Low |
| 2 | Edit Course | Average |
| 3 | Edit User Profile | Average |
| 4 | Delete Course | Low |
| 5 | Delete User | Low |

**External Logic Files:**

|  |  |  |
| --- | --- | --- |
| **No.** | **External Logic Files** | **Complexity** |
| 1 | Generate Pdf Certificate | High |

**Project Cost Estimation by Function Point Analysis**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Measurement** | **Count** | **Low** | **Average** | **High** | **FP Count** |
| **Parameters** |  |  |  |  |  |
| **Number of Inputs** | 8 | 2x3=6 | 2x4=8 | 4x6=24 | 38 |
| **Number of Outputs** | 5 | 1x4=4 | 2x5=10 | 2x7=14 | 28 |
| **Number of Inquiries** | 5 | 3x3=9 | 2x4=8 | 0x6=0 | 17 |
| **Number of Internal Logical Files** | 2 | 1x7 | 1x10 | 0x4 | 17 |
| **Number of External Files** | 1 | 0x5 | 0x7 | 1x10 | 10 |

**Total=𝚺FP = 110**

**Function Point Calculation**

|  |  |
| --- | --- |
| Data Communication | **4** |
| Distributed Data | **2** |
| Performance | **5** |
| Heavily Used | **4** |
| Transaction rate | **3** |
| Online Data Entry | **5** |
| End User Efficiency | **3** |
| Online Update | **1** |
| Complex Processing | **3** |
| Reusability | **3** |
| Installation Ease | **2** |
| Operational Ease | **5** |
| Multiple Sites | **1** |
| Facilitate Change | **3** |
| **Total=𝚺Fi** | **44** |

FP est. = 𝚺FP\*[0.65 + 0.01\*(𝚺Fi)]

= 110\*[0.65 + 0.01\*(44)]

= 119.9

Average Productivity = 24 FP per month

Labor Rate = Rs. 19,000

Total Project Cost = FP est. \* (Rate/Productivity)

= 119.9 \*(19,000/24)

= Rs. 94,920

Total Effort = FP est. / productivity

= 119.9 / 24

= 4.99≈ 5 persons per month