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| **AIN SHAMS UNIVERSITY**  **FACULTY OF ENGINEERING**  **International Credit Hours Engineering Programs (i.CHEP)** |  |
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| **Cost Estimation Document**  **Software Engineering**  **Participants:**  **Omar Ashraf Mabrouk 19P8102**  **Mahmoud Mohamed Omar 19P5803**  **Hussein Ahmed Hassan Selim 19P9614**  **Abdelrahman Mohamed Salah 19P9131**  **Zakaria Sobhy Abd El-Salam 19P2676**  **Mahmoud Mohamed Seddik 19P3374** | |
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| Course Code  CSE 334 | Course Name  Software Engineering | |
|  | **Semester**  Spring 2021 | **Date of Submission**  11-06-2021 |

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**Cost-estimation**

**Function points**

1. Backup and recovery -> 5

2. Data communication -> 3

3. Distributed processing functions -> 1

4. Is performance critical? -> 1

5. Existing operating environment -> 0

6. On-line data entry -> 5

7. Input transaction built over multiple screens -> 0

8. Master files updated on-line -> 4

9. Complexity of inputs, outputs, files, inquires -> 3

10. Complexity of processing -> 0

11. Code design for re-use -> 4

12. Are conversion/installation included in design? -> 3

13. Multiple installation -> 0

14. Application designed to facilitate change by the user -> 3

Function points total: 32

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| **Measurement parameter** | **count** | **Weighting factor** |  |
| Number of user inputs | 4 | 4 | 16 |
| Number of user outputs | 5 | 5 | 25 |
| Number of user inquires | 8 | 4 | 32 |
| Number of files | 8 | 8 | 64 |
| Number of ext.interfaces | 0 |  |  |
| Count-total | 25 |  | 137 |
| Complexity multiplier |  |  | 1 |
| Function points |  |  | 32 |

Productivity of one person is 10 function points per month.

Team consists of 6 persons, time taken by team of 6 is about 2 months.

Average salary for a person per month for a person is 8000 LE.

Salary for the team of 6 for a duration of 2 months is 96000 LE.

Free IDES are used no cost for licenses for programs.

For a profit of 20 %