**SIX-ELEMENT ANALYSIS (AS-IS)**

**Group 5**

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| **Process** | **System role** | | | | | |
| **Human** | **Non-**  **Computing**  **Hardware** | **Computing**  **Hardware** | **Software** | **Database** | **Network &**  **Communication** |
| **1) Checking**  **CO/PLO**  **Manual or OBE documents** | **A) IUB officials:**  1. Specific IUB department sends request to BAETE to get info on OBE documents.  2. IUB can receives guidelines and feedbacks regarding courses and departments. | **A) Pen, papers:**  All documents are managed by papers.  Pen for taking notes and writing purposes. | **A) Digital devices:**  Such as computers, laptops, phone may be used to store soft copies for the guidelines.  Many other digital devices are used for communication between internal/external parties. | **A) IRAS:**  To access necessary information for different individuals such as faculties, students etc. | **A) Manual database:**  To store all sort of PLO scores which are stored in documents. | **A) WAN, LAN WIFI, BROADBAND:**  Any other communication platform to organize meetings between parties. |
|  | **B) BAETE officials:**  1. BAETE officials can communicate.  2. BAETE officials make the necessary documents on OBE and provide it to university authority  3. BAETE officials can provide feedbacks and guidelines that should be followed by the departments. |  |  |  |  |  |

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| **2)Making course outline and assessment plan** | **A) Department:**  1. After receiving the manual from BAETE department will map CO and PLO for each course and then provide the mapped guideline to faculty.  2. Department may receive an update from faculties if there any change need to do with CO and PLO mapping  **B) Faculty:**  1. Faculties can plan how each of the CO can be used for questions and assessments tests.  2. He/she will check the mapping of CO and PLO.  3. If any change is necessary about the mapping faculty will contact the department.  3. And finally the course outline is created. | **A) Pen, paper:**  Pen, Paper for taking notes and writing purposes. | **A) Computer, Laptop:**  These are used to make or edit softcopies of course outline.  It is also used for storing softcopies of the course outline and curriculum. | **A) MS Word:**  Used for writing soft copies and making changes to them. We can also save softcopies in text format |  | **A) WAN, LAN WIFI, BROADBAND:**  These are the communication platforms to transfer softcopies. |
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| **3) Assessment phase and grading and attendance** | **A) Students:**  1. Initially they participate in a class and sit for certain test on certain date.  2. They may ask to clarify if they have any questions.  3. Once they are done with the exam, they submit their answer script.  4. After checking assessed answer script, student can give a feedback to the faculty if there is any correction needed.  **B) Faculties:**  1. They take attendance, prepare assessment papers (take tests online in any emergency situation).  2. They also invigilate or monitor the test given by the students.  3. They often need to clarify the questions asked by the students.  4. They collect the scripts.  5. Each question is connected to a certain CO.  6. By calculating the CO, PLO scores are also calculated.  7. Show the assessed script to the student.  8. Receive feedback from students about their grades. If any correction is about grades required faculty will do that.  9. Thus the faculties calculate the final grade for the students. | **A) Pen, paper, rubber, pencil:**  1. Paper is supplied to students when the exams are taken in offline.  2. It is also used as an answer sheet.  3. Students need pen, pencil, eraser, ruler to complete the answer script. | **A) Computers, Laptops:**  1. Used to conduct particular test in courses related to computer science.  2. They are used to conduct online classes as well | **A) MS Word, GOOGLE DOC,**  **MS Excel,**  **Google classroom,**  **Google meet:**  1. Google classroom is used for taking classes and conducting exams.  2. Google meet is used for monitoring and gather information about the participants of the exam.  3. MS Word or Google DOCS are used for writing answers.  4. Students submit their answers through the panels in google classroom.  5. MS Excel is used for storing each student marks and final grades.  6. It is also used to evaluate PLO and CO score to store them. | **A) Manual database, CITS:**  1. It is used to keep records of the participants of the test.  2. Used for online classes in case of a crisis situation. | **A) WAN,LAN WIFI,BROADBAND:**  1. Used to allow online examinations to be conducted. |
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| **4) Grade submission and storage** | **A) Faculty:**  1. He/she will upload the grade of the students to the IRAS after log in to IRAS.  2. They also need to submit PLO and CO scores to the department.  3. The admin then avails a form to the faculty and available the changing option.  **B) Department:**  1. They receive OBE mark sheet from the faculties.  2. They then store the hard and soft copies. | **A) Paper:**  Hard copies of the grade submission and PLO and CO scores. | **A) Computer, Laptops:**  1. Use to store soft copies of the score grade in Excel sheets.  2. They are also use to access IRAS. | **A) MS EXCEL:**  It is used to store grades, PLO and CO scores as an Excel Sheet. | **A) Manual database, IRAS:**  1. It is used for faculty to keep records of the students and their grades.  2. IRAS is used for grade submission.  3. It is also used for viewing student’s credit, CGPA and all other information. | **A) WAN, LAN WIFI,BROADBAND:**  Network is used for transferring excel files. |

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| **5) Viewing grades** | **A) Students:**  They can login into IRAS to check their grades.  **B) Department:**  Department can provide OBE mark sheet upon request of IUB officials.  **C) IUB officials:**  IUB officials access the PLO and Co scores through the department. | **A) Paper:**  Hard copies of the grade submission and PLO and CO scores. | **A) Computers, Laptops, Phone:**  They are used for accessing IRAS.  They are used for storing PLO and CO scores, grades of the students. | **A) Browser (Chrome, Mozilla, Opera):**  To access the website of the IRAS. | **A) IRAS:**  IRAS is used by the admin, students and other officials with the id and Password. | **A) WAN, LAN WIFI,BROADBAND:**  Any network to access IRAS from a digital device such as computer, laptop, mobile. |