**Analysis of feedbacks of students of Semester- Ist of Chem. Tech.**

**Analysis of feedbacks of students of Semester- Istof Chem. Tech. about course curriculum**

In part I students have given the feedback about different aspects of course curriculum such as

1. The course objectives and outcomes were clearly defined, identified
2. Length: Course material were of appropriate length
3. Relevance: Course material were relevant
4. Quality: Course material were of high quality and up to date
5. Organization: Material was well organized
6. The course provides useful inputs
7. The course provides focus on skill development/ employability/ entrepreneurship
8. The course updates understanding in this field

As per their satisfaction in 4 levels:

1. Average
2. Good
3. Excellent
4. Outstanding

Table 1: Subject wise Percentage of grades given by students for course curriculum

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Basic Civil Engineering** | **Organic Chemistry-I** | **Computer Fundamentals and Programming** | **Engineering Graphics** | **Basic Civil Engineering** | **Engineering Mathematics-I** | **Applied Science** |
| **A** | 8 | 33 | 32 | 14 | 75 | 32 | 69 |
| **G** | 38 | 24 | 28 | 14 | 25 | 24 | 31 |
| **E** | 29 | 31 | 32 | 46 | 0 | 29 | 0 |
| **O** | 25 | 13 | 8 | 26 | 0 | 15 | 0 |
| **Total** | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Fig.1: Graphical Representation of Course Curriculum feedback

From the above cluster diagram, it is observed that,

* **Course curriculum feedback: Basic Civil Engineering**
  + **8%**of the students have rated course curriculum of Basic Civil Engineering as Average.
  + **38%**of the students have rated course curriculum of Basic Civil Engineering as Good.
  + **29%**of the students have rated course curriculum of Basic Civil Engineering as Excellent.
  + **25%**of the students have rated course curriculum of Basic Civil Engineering as Outstanding.
* **Course curriculum feedback: Organic Chemistry-I**
  + **33%**of the students have rated course curriculum of Organic Chemistry-I as Average.
  + **24%**of the students have rated course curriculum of Organic Chemistry-Ias Good.
  + **31%**of the students have rated course curriculum of Organic Chemistry-Ias Excellent.
  + **13%**of the students have rated course curriculum of Organic Chemistry-Ias Outstanding.
* **Course curriculum feedback: Computer Fundamentals and Programming**
  + **32%**of the students have rated course curriculum of Computer Fundamentals and Programming as Average.
  + **28%**of the students have rated course curriculum of Computer Fundamentals and Programming as Good.
  + **32%**of the students have rated course curriculum of Computer Fundamentals and Programming as Excellent.
  + **8%**of the students have rated course curriculum of Computer Fundamentals and Programming as Outstanding.
* **Course curriculum feedback: Engineering Graphics**
  + **14%**of the students have rated course curriculum of Engineering Graphics as Average.
  + **14%**of the students have rated course curriculum of Engineering Graphicsas Good.
  + **46%**of the students have rated course curriculum of Engineering Graphicsas Excellent.
  + **26%**of the students have rated course curriculum of Engineering Graphicsas Outstanding.
* **Course curriculum feedback: Basic Civil Engineering**
  + **75%**of the students have rated course curriculum of Basic Civil Engineering as Average.
  + **25%**of the students have rated course curriculum of Basic Civil Engineeringas Good.
  + **0%**of the students have rated course curriculum of Basic Civil Engineeringas Excellent.
  + **0%**of the students have rated course curriculum of Basic Civil Engineeringas Outstanding.
* **Course curriculum feedback: Engineering Mathematics-I**
  + **32%**of the students have rated course curriculum of Engineering Mathematics-I as Average.
  + **24%**of the students have rated course curriculum of Engineering Mathematics-Ias Good.
  + **29%**of the students have rated course curriculum of Engineering Mathematics-Ias Excellent.
  + **15%**of the students have rated course curriculum of Engineering Mathematics-Ias Outstanding.
* **Course curriculum feedback: Applied Science**
  + **69%**of the students have rated course curriculum of Applied Science as Average.
  + **31%**of the students have rated course curriculum of Applied Science as Good.
  + **0%**of the students have rated course curriculum of Applied Science as Excellent.
  + **0%**of the students have rated course curriculum of Applied Science as Outstanding.

**Criteria 1.**

**Subject: 1**

**Basic Civil Engineering:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 6 | 8.33333 |
| **G** | 27 | 37.5 |
| **E** | 21 | 29.1667 |
| **O** | 18 | 25 |
| **Total** | 72 | 100 |

**Subject: 2**

**Organic Chemistry-I:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 24 | 33.3333 |
| **G** | 17 | 23.6111 |
| **E** | 22 | 30.5556 |
| **O** | 9 | 12.5 |
| **Total** | 72 | 100 |

**Subject: 3**

**Computer Fundamentals and Programming:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 23 | 31.9444 |
| **G** | 20 | 27.7778 |
| **E** | 23 | 31.9444 |
| **O** | 6 | 8.33333 |
| **Total** | 72 | 100 |

**Subject: 4**

**Engineering Graphics:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 10 | 13.8889 |
| **G** | 10 | 13.8889 |
| **E** | 33 | 45.8333 |
| **O** | 19 | 26.3889 |
| **Total** | 72 | 100 |

**Subject: 5**

**Basic Civil Engineering:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 6 | 75 |
| **G** | 2 | 25 |
| **E** | 0 | 0 |
| **O** | 0 | 0 |
| **Total** | 8 | 100 |

**Subject: 6**

**Engineering Mathematics-I:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 23 | 31.9444 |
| **G** | 17 | 23.6111 |
| **E** | 21 | 29.1667 |
| **O** | 11 | 15.2778 |
| **Total** | 72 | 100 |

**Subject: 7**

**Engineering Mathematics-I:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 0 | 0 |
| **G** | 1 | 12.5 |
| **E** | 5 | 62.5 |
| **O** | 2 | 25 |
| **Total** | 8 | 100 |

**Subject: 8**

**Applied Science:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 37 | 66.0714 |
| **G** | 11 | 19.6429 |
| **E** | 4 | 7.14286 |
| **O** | 4 | 7.14286 |
| **Total** | 56 | 100 |

**Subject: 9**

**Applied Science:**

|  |  |  |
| --- | --- | --- |
| **Grade** | **Frequency** | **Percent** |
| **A** | 11 | 68.75 |
| **G** | 5 | 31.25 |
| **E** | 0 | 0 |
| **O** | 0 | 0 |
| **Total** | 16 | 100 |

**Criteria 2.**

**Analysis of student’s feedback about teachers**

In the second part the students have given their feedback about different characteristics of teachers about preparedness for each class, use of ICT tools, fair evaluation, punctuality, overall effectiveness , communication , clarity of concepts, listening skills and time management as per student satisfaction level students have rated in 4 levels:

A-Average

G-Good

E-Excellent

O-Outstanding

**The feedback of students is presented in tabular and graphical form as follows**:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Basic Civil Engineering** | **Organic Chemistry-I** | **Computer Fundamentals and Programming** | **Engineering Graphics** | **Basic Civil Engineering** | **Engineering Mathematics-I** | **Applied Science** |
| **A** | 18 | 20 | 10 | 19 | 100 | 48 | 92 |
| **G** | 22 | 27 | 27 | 15 | 0 | 33 | 8 |
| **E** | 35 | 37 | 45 | 19 | 0 | 12 | 0 |
| **O** | 25 | 16 | 18 | 46 | 0 | 6 | 0 |

**A**

Fig.1: Graphical Representation of teachers feedback by dtudents

* Please write name of the teacher
  + **18%**of the students have rated teacher of Basic Civil Engineering as Average.
  + **22%**of the students have rated teacher of Basic Civil Engineering as Good.
  + **35%**of the students have rated teacher of Basic Civil Engineering as Excellent.
  + **25%**of the students have rated teacher of Basic Civil Engineering as Outstanding.
* Sub 2: Please write name of the teacher
  + **20%**of the students have rated teacher of Organic Chemistry-I as Average.
  + **27%**of the students have rated teacher of Organic Chemistry-I as Good.
  + **37%**of the students have rated teacher of Organic Chemistry-I as Excellent.
  + **16%**of the students have rated teacher of Organic Chemistry-I as Outstanding.
* Sub 3: Please write name of the teacher
  + **10%**of the students have rated teacher of Computer Fundamentals and Programming as Average.
  + **27%**of the students have rated teacher of Computer Fundamentals and Programming as Good.
  + **45%**of the students have rated teacher of Computer Fundamentals and Programming as Excellent.
  + **18%**of the students have rated teacher of Computer Fundamentals and Programming as Outstanding.
* Sub 4: Please write name of the teacher
  + **19%**of the students have rated teacher of Engineering Graphics as Average.
  + **15%**of the students have rated teacher of Engineering Graphics as Good.
  + **19%**of the students have rated teacher of Engineering Graphics as Excellent.
  + **46%**of the students have rated teacher of Engineering Graphics as Outstanding.
* Sub 5: Please write name of the teacher
  + **100%**of the students have rated teacher of Basic Civil Engineering as Average.
  + **0%**of the students have rated teacher of Basic Civil Engineering as Good.
  + **0%**of the students have rated teacher of Basic Civil Engineering as Excellent.
  + **0%**of the students have rated teacher of Basic Civil Engineering as Outstanding.
* Sub 6: Please write name of the teacher
  + **48%**of the students have rated teacher of Engineering Mathematics-I as Average.
  + **33%**of the students have rated teacher of Engineering Mathematics-I as Good.
  + **12%**of the students have rated teacher of Engineering Mathematics-I as Excellent.
  + **6%**of the students have rated teacher of Engineering Mathematics-I as Outstanding.
* Sub 9: Please write name of the teacher
  + **92%**of the students have rated teacher of Applied Science as Average.
  + **8%**of the students have rated teacher of Applied Science as Good.
  + **0%**of the students have rated teacher of Applied Science as Excellent.
  + **0%**of the students have rated course curriculum of Applied Science as Outstanding.

**Criteria 3.**

**Analysis of feedbacks of students of Semester- Istof Chem Tech. about Projects/Seminars/ Home assignments/ Tutorials:**

In part III students have given the feedback about Projects/Seminars/ Home assignments/ Tutorials as:

1. Project / Seminar topics are new and interesting
2. Learnt a lot from doing the project / Seminar? Home Assignment
3. The assignment was regularly given and checked
4. Sufficient number of practical’s were conducted

As per student satisfaction level students have rated in 4 levels:

A-Average

G-Good

E-Excellent

O-Outstanding

**The feedback of students about projects/ seminars/ assignments is presented in tabular and graphical form as follows**:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Basic Civil Engineering** | **Organic Chemistry-I** | **Computer Fundamentals and Programming** | **Engineering Graphics** | **Basic Civil Engineering** | **Engineering Mathematics-I** | **Subject 7: Engineering Mathematics-I** | **Subject 8: Applied Science** | **Applied Science** |
| **A** | 17 | 17 | 8 | 28 | 25 | 61 | 75 | 25 | 25 |
| **G** | 19 | 36 | 25 | 36 | 50 | 28 | 25 | 50 | 50 |
| **E** | 42 | 36 | 47 | 11 | 25 | 8 | 0 | 18 | 25 |
| **O** | 22 | 11 | 11 | 25 | 0 | 3 | 0 | 7 | 0 |

* **Projects/ seminars/ assignments Feedback**: Basic Civil Engineering
  + **17%**of the students have rated Projects/ seminars/ assignments of Basic Civil Engineering as Average.
  + **19%**of the students have rated Projects/ seminars/ assignments of Basic Civil Engineering as Good.
  + **42%**of the students have rated Projects/ seminars/ assignments of Basic Civil Engineering as Excellent.
  + **22%**of the students have rated Projects/ seminars/ assignments of Basic Civil Engineering as Outstanding.
* Projects/ seminars/ assignments Feedback 2: Organic Chemistry-I
  + **17%**of the students have rated Projects/ seminars/ assignments of Organic Chemistry-I as Average.
  + **36%**of the students have rated Projects/ seminars/ assignments of Organic Chemistry-I as Good.
  + **36%**of the students have rated Projects/ seminars/ assignments of Organic Chemistry-I as Excellent.
  + **11%**of the students have rated Projects/ seminars/ assignments of Organic Chemistry-I as Outstanding.
* Projects/ seminars/ assignments Feedback: Computer Fundamentals and Programming
  + **8%**of the students have rated Projects/ seminars/ assignments of Computer Fundamentals and Programming as Average.
  + **25%**of the students have rated Projects/ seminars/ assignments of Computer Fundamentals and Programming as Good.
  + **47%**of the students have rated Projects/ seminars/ assignments of Computer Fundamentals and Programming as Excellent.
  + **11%**of the students have rated Projects/ seminars/ assignments of Computer Fundamentals and Programming as Outstanding.
* Projects/ seminars/ assignments Feedback 4: Engineering Graphics
  + **28%**of the students have rated Projects/ seminars/ assignments of Engineering Graphics as Average.
  + **36%**of the students have rated Projects/ seminars/ assignments of Engineering Graphics as Good.
  + **11%**of the students have rated Projects/ seminars/ assignments of Engineering Graphics as Excellent.
  + **25%**of the students have rated Projects/ seminars/ assignments of Engineering Graphics as Outstanding.
* Projects/ seminars/ assignments Feedback 5: Basic Civil Engineering
  + **25%**of the students have rated Projects/ seminars/ assignments of Basic Civil Engineering as Average.
  + **50%**of the students have rated Projects/ seminars/ assignments of Basic Civil Engineering as Good.
  + **25%**of the students have rated Projects/ seminars/ assignments of Basic Civil Engineering as Excellent.
  + **0%**of the students have rated Projects/ seminars/ assignments of Basic Civil Engineering as Outstanding.
* Projects/ seminars/ assignments Feedback 6: Engineering Mathematics-I
  + **61%**of the students have rated Projects/ seminars/ assignments of Engineering Mathematics-I as Average.
  + **28%**of the students have rated Projects/ seminars/ assignments of Engineering Mathematics-I as Good.
  + **8%**of the students have rated Projects/ seminars/ assignments of Engineering Mathematics-I as Excellent.
  + **3%**of the students have rated Projects/ seminars/ assignments of Engineering Mathematics-I as Outstanding.
* **Projects/ seminars/ assignments Feedback 9: Applied Science**
  + **25%**of the students have rated Projects/ seminars/ assignments of Applied Science as Average.
  + **50%**of the students have rated Projects/ seminars/ assignments of Applied Science as Good.
  + **25%**of the students have rated Projects/ seminars/ assignments of Applied Science as Excellent.
  + **0%**of the students have rated Projects/ seminars/ assignments of Applied Science as Outstanding.

**Criteria 4.**

**Analysis of feedbacks of students of Semester- Istof Economic about Over All**

As per student satisfaction level students have rated in 4 levels:

A-Average

G-Good

E-Excellent

O-Outstanding

**The feedback of students about Over All assignments is presented in tabular and graphical form as follows**:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Grade** | **Basic Civil Engineering** | **Organic Chemistry-I** | **Computer Fundamentals and Programming** | **Engineering Graphics** | **Basic Civil Engineering** | **Engineering Mathematics-I** | **Applied Science** |
| **A** | 4 | 7 | 4 | 7 | 33 | 56 | 17 |
| **G** | 26 | 37 | 26 | 19 | 0 | 26 | 33 |
| **E** | 37 | 22 | 30 | 33 | 67 | 15 | 33 |
| **O** | 33 | 33 | 41 | 41 | 0 | 4 | 17 |

* Overall Sub 1:
  + **4%**of the students have rated overall Basic Civil Engineering as Average.
  + **20%**of the students have rated overall Basic Civil Engineering as Good.
  + **37%**of the students have rated overall Basic Civil Engineering as Excellent.
  + **33%**of the students have rated overall Basic Civil Engineering as Outstanding.
* Overall Sub 2:
  + **7%**of the students have rated overall Organic Chemistry-I as Average.
  + **37%**of the students have rated overall Organic Chemistry-I as Good.
  + **22%**of the students have rated overall Organic Chemistry-I as Excellent.
  + **33%**of the students have rated overall Organic Chemistry-I as Outstanding.
* Overall Sub 3:
  + **4%**of the students have rated overall Computer Fundamentals and Programming as Average.
  + **26%**of the students have rated overall Computer Fundamentals and Programming as Good.
  + **30%**of the students have rated overall Computer Fundamentals and Programming as Excellent.
  + **41%**of the students have rated overall Computer Fundamentals and Programming as Outstanding.
* Overall Sub 4:
  + **7%**of the students have rated overall Engineering Graphics as Average.
  + **19%**of the students have rated overall Engineering Graphics as Good.
  + **33%**of the students have rated overall Engineering Graphics as Excellent.
  + **41%**of the students have rated overall Engineering Graphics as Outstanding.
* Overall Sub 5:
  + **33%**of the students have rated overall Basic Civil Engineering as Average.
  + **0%**of the students have rated overall Basic Civil Engineering as Good.
  + **67%**of the students have rated overall Basic Civil Engineering as Excellent.
  + **0%**of the students have rated overall Basic Civil Engineering as Outstanding.
* Overall Sub 6:
  + **56%**of the students have rated overall Engineering Mathematics-I as Average.
  + **26%**of the students have rated overall Engineering Mathematics-I as Good.
  + **15%**of the students have rated overall Engineering Mathematics-I as Excellent.
  + **4%**of the students have rated overall Engineering Mathematics-I as Outstanding.
* Overall Sub 7:
  + **17%**of the students have rated overall Applied Science as Average.
  + **33%**of the students have rated overall Applied Science as Good.
  + **33%**of the students have rated overall Applied Science as Excellent.
  + **17%**of the students have rated overall Applied Science as Outstanding.