**Analysis of feedbacks of students of Semester- II, M.Sc. Chemistry, 2017-2018**

**Analysis of feedbacks of students 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:
9. Average
10. Good
11. Excellent
12. Outstanding

The students graded the about course curriculum as follows:

Table 1: Frequencies of grades given by students for course curriculum

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Pharmaceutical & Forensic Analysis | Nano Chemistry | PhotoInorganic Chemistry | Polymer Chemistry | Analytical Method Development & Validation | Environmental Analysis & Monitoring | Food, Fertilizer & Pesticides Analysis | Medicinal Chemistry | Organic Synthesis : Retrosynthetic Approach | Chemistry of Natural Products | Heterocyclic Chemistry |
| A | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 9 | 0 | 0 | 0 |
| G | 16 | 23 | 22 | 40 | 30 | 8 | 3 | 34 | 13 | 31 | 34 |
| E | 25 | 29 | 48 | 41 | 72 | 26 | 31 | 102 | 80 | 64 | 124 |
| O | 95 | 36 | 18 | 12 | 113 | 94 | 78 | 47 | 51 | 17 | 122 |
| Total | 136 | 88 | 88 | 96 | 216 | 128 | 112 | 192 | 144 | 112 | 280 |

Table 2: Percentage of grades given by students for course curriculum

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Pharmaceutical & Forensic Analysis | Nano Chemistry | PhotoInorganic Chemistry | Polymer Chemistry | Analytical Method Development & Validation | Environmental Analysis & Monitoring | Food, Fertilizer & Pesticides Analysis | Medicinal Chemistry | Organic Synthesis : Retrosynthetic Approach | Chemistry of Natural Products |
| A | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 0 | 0 |
| G | 12 | 26 | 25 | 42 | 14 | 6 | 3 | 18 | 9 | 23 |
| E | 18 | 33 | 55 | 43 | 33 | 20 | 28 | 53 | 56 | 44 |
| O | 70 | 41 | 20 | 13 | 52 | 73 | 70 | 24 | 35 | 33 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

 Fig. 1: Graphical representation of grades given to course curriculum by students

**Course Curriculum Feedback: Pharmaceutical & Forensic Analysis**

* 18% of the students have rated course curriculum of Pharmaceutical & Forensic Analysis as Excellent
* 70**%** of the students have rated course curriculum of Pharmaceutical & Forensic Analysis as outstanding
* 12% of the students have rated course curriculum of Pharmaceutical & Forensic Analysis as good
* None of the students have rated course curriculum of Pharmaceutical & Forensic Analysis as average

**Course Curriculum Feedback: Nano Chemistry**

* 33**%** of the students have rated course curriculum of Nano Chemistry as Excellent
* 41**%** of the students have rated course curriculum of Nano Chemistry as outstanding
* 26**%** of the students have rated course curriculum of Nano Chemistry as good
* None of the students have rated course curriculum of Nano Chemistry as average

**Course Curriculum Feedback: PhotoInorganic Chemistry**

* 55**%** of the students have rated course curriculum of PhotoInorganic Chemistry as Excellent
* 20**%** of the students have rated course curriculum of PhotoInorganic Chemistry as outstanding
* 25% of the students have rated course curriculum of PhotoInorganic Chemistry as good
* None of the students have rated course curriculum of PhotoInorganic Chemistry as average

**Course Curriculum Feedback: Polymer Chemistry**

* 43**%** of the students have rated course curriculum of Polymer Chemistry as Excellent
* 13**%** of the students have rated course curriculum of Polymer Chemistry as outstanding
* 25% of the students have rated course curriculum of Polymer Chemistry as good
* 0% of the students have rated course curriculum of Polymer Chemistry as average

**Course Curriculum Feedback: Analytical Method Development & Validation**

* 33**%** of the students have rated course curriculum of Analytical Method Development & Validation as Excellent
* 52**%** of the students have rated course curriculum of Analytical Method Development & Validation as outstanding
* 14**%** of the students have rated course curriculum of Analytical Method Development & Validation as good
* 0% of the students have rated course curriculum of Analytical Method Development & Validation as average

**Course Curriculum Feedback: Environmental Analysis & Monitoring**

* 20**%** of the students have rated course curriculum of Environmental Analysis & Monitoringas Excellent
* 73**%** of the students have rated course curriculum of Environmental Analysis & Monitoringas outstanding
* 6% of the students have rated course curriculum of Environmental Analysis & Monitoringas good
* 0% of the students have rated course curriculum of Environmental Analysis & Monitoringas average

**Course Curriculum Feedback:** Food, Fertilizer & Pesticides Analysis

* 28**%** of the students have rated course curriculum of Food, Fertilizer & Pesticides Analysis as Excellent
* 70**%** of the students have rated course curriculum of Food, Fertilizer & Pesticides Analysis as outstanding
* 3% of the students have rated course curriculum of Food, Fertilizer & Pesticides Analysis as good
* 0% of the students have rated course curriculum of Food, Fertilizer & Pesticides Analysis as average

**Course Curriculum Feedback:** Medicinal Chemistry

* 53**%** of the students have rated course curriculum of Medicinal Chemistry as Excellent
* 24**%** of the students have rated course curriculum of Medicinal Chemistry as outstanding
* 18% of the students have rated course curriculum of Medicinal Chemistry as good
* 5% of the students have rated course curriculum of Medicinal Chemistry as average

**Course Curriculum Feedback:** Organic Synthesis : Retrosynthetic Approach

* 56**%** of the students have rated course curriculum of Organic Synthesis : Retrosynthetic Approach as Excellent
* 35**%** of the students have rated course curriculum of Organic Synthesis : Retrosynthetic Approach as outstanding
* 9% of the students have rated course curriculum of Organic Synthesis : Retrosynthetic Approachas good
* 0% of the students have rated course curriculum of Organic Synthesis : Retrosynthetic Approachas average

**Course Curriculum Feedback: Chemistry of Natural Products**

* 48**%** of the students have rated course curriculum of Chemistry of Natural Productsas Excellent
* 39**%** of the students have rated course curriculum of Chemistry of Natural Productsas outstanding
* 12% of the students have rated course curriculum of Chemistry of Natural Productsas good
* 1% of the students have rated course curriculum of Chemistry of Natural Productsas average

**Course Curriculum Feedback:** Heterocyclic Chemistry

* 44**%** of the students have rated course curriculum of Heterocyclic Chemistry as Excellent
* 44**%** of the students have rated course curriculum of Heterocyclic Chemistry as outstanding
* 12% of the students have rated course curriculum of Heterocyclic Chemistry as good
* 0% of the students have rated course curriculum of Heterocyclic Chemistry as average

**Analysis of students 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 given by students of teachers in tabular and graphical form as follows**:

Table 3: Frequencies of grades given by students for performance of teachers

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Pharmaceutical & Forensic Analysis | Nano Chemistry | PhotoInorganic Chemistry | Polymer Chemistry | Analytical Method Development & Validation | Environmental Analysis & Monitoring | Food, Fertilizer & Pesticides Analysis | Medicinal Chemistry | Organic Synthesis : Retrosynthetic Approach | Chemistry of Natural Products | Heterocyclic Chemistry |
| A | 0 | 4 | 0 | 13 | 3 | 0 | 0 | 12 | 0 | 0 | 0 |
| G | 26 | 29 | 21 | 48 | 36 | 12 | 12 | 41 | 13 | 46 | 56 |
| E | 46 | 39 | 78 | 64 | 105 | 41 | 46 | 162 | 112 | 90 | 190 |
| O | 132 | 60 | 33 | 19 | 180 | 139 | 110 | 73 | 91 | 32 | 174 |
| Total | 204 | 132 | 132 | 144 | 324 | 192 | 168 | 288 | 216 | 168 | 420 |

Table 4: Percentage of grades given by students for performance of teachers

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Pharmaceutical & Forensic Analysis | Nano Chemistry | PhotoInorganic Chemistry | Polymer Chemistry | Analytical Method Development & Validation | Environmental Analysis & Monitoring | Food, Fertilizer & Pesticides Analysis | Medicinal Chemistry | Organic Synthesis : Retrosynthetic Approach | Chemistry of Natural Products | Heterocyclic Chemistry |
| A | 0 | 3 | 0 | 9 | 1 | 0 | 0 | 4 | 0 | 0 | 0 |
| G | 13 | 22 | 16 | 33 | 11 | 6 | 7 | 14 | 6 | 27 | 13 |
| E | 23 | 30 | 59 | 44 | 32 | 21 | 27 | 56 | 52 | 54 | 45 |
| O | 65 | 45 | 25 | 13 | 56 | 72 | 65 | 25 | 42 | 19 | 41 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Fig. 2 : Graphical representation of grades given to teachers by students

**Teacher feedback: Pharmaceutical & Forensic Analysis**

* 23% of the students have rated Teacher of Pharmaceutical & Forensic Analysis as Excellent
* 65**%** of the students have rated Teacher of Pharmaceutical & Forensic Analysis as outstanding
* 13% of the students have rated Teacher of Pharmaceutical & Forensic Analysis as good
* None of the students have rated Teacher of Pharmaceutical & Forensic Analysis as average

**Teacher feedback: Nano Chemistry**

* 30**%** of the students have rated Teacher of Nano Chemistry as Excellent
* 45**%** of the students have rated Teacher of Nano Chemistry as outstanding
* 22**%** of the students have rated Teacher of Nano Chemistry as good
* 3% of the students have rated Teacher of Nano Chemistry as average

**Teacher feedback: PhotoInorganic Chemistry**

* 59**%** of the students have rated Teacher of PhotoInorganic Chemistry as Excellent
* 25**%** of the students have rated Teacher of PhotoInorganic Chemistry as outstanding
* 16% of the students have rated Teacher of PhotoInorganic Chemistry as good
* None of the students have rated Teacher of PhotoInorganic Chemistry as average

**Teacher feedback: Polymer Chemistry**

* 43**%** of the students have rated Teacher of Polymer Chemistry as Excellent
* 13**%** of the students have rated Teacher of Polymer Chemistry as outstanding
* 25% of the students have rated Teacher of Polymer Chemistry as good
* 0% of the students have rated Teacher of Polymer Chemistry as average

**Teacher feedback: Analytical Method Development & Validation**

* 32**%** of the students have rated Teacher of Analytical Method Development & Validation as Excellent
* 56**%** of the students have rated Teacher of Analytical Method Development & Validation as outstanding
* 11**%** of the students have rated Teacher of Analytical Method Development & Validation as good
* 1% of the students have rated Teacher of Analytical Method Development & Validation as average

**Teacher feedback: Environmental Analysis & Monitoring**

* 21**%** of the students have rated Teacher of Environmental Analysis & Monitoringas Excellent
* 72**%** of the students have rated Teacher of Environmental Analysis & Monitoringas outstanding
* 6% of the students have rated Teacher of Environmental Analysis & Monitoringas good
* 0% of the students have rated Teacher of Environmental Analysis & Monitoringas average

**Teacher feedback:** Food, Fertilizer & Pesticides Analysis

* 27**%** of the students have rated Teacher of Food, Fertilizer & Pesticides Analysis as Excellent
* 65**%** of the students have rated Teacher of Food, Fertilizer & Pesticides Analysis as outstanding
* 7% of the students have rated Teacher of Food, Fertilizer & Pesticides Analysis as good
* 0% of the students have rated Teacher of Food, Fertilizer & Pesticides Analysis as average

**Teacher feedback:** Medicinal Chemistry

* 56**%** of the students have rated Teacher of Medicinal Chemistry as Excellent
* 25**%** of the students have rated Teacher of Medicinal Chemistry as outstanding
* 14% of the students have rated Teacher of Medicinal Chemistry as good
* 4% of the students have rated Teacher of Medicinal Chemistry as average

**Teacher feedback:** Organic Synthesis : Retrosynthetic Approach

* 52**%** of the students have rated Teacher of Organic Synthesis : Retrosynthetic Approach as Excellent
* 42**%** of the students have rated Teacher of Organic Synthesis : Retrosynthetic Approach as outstanding
* 6% of the students have rated Teacher of Organic Synthesis : Retrosynthetic Approachas good
* 0% of the students have rated Teacher of Organic Synthesis : Retrosynthetic Approachas average

**Teacher feedback: Chemistry of Natural Products**

* 54**%** of the students have rated Teacher of Chemistry of Natural Productsas Excellent
* 19**%** of the students have rated Teacher of Chemistry of Natural Productsas outstanding
* 27% of the students have rated Teacher of Chemistry of Natural Productsas good
* 0% of the students have rated Teacher of Chemistry of Natural Productsas average

**Teacher feedback:** Heterocyclic Chemistry

* 45**%** of the students have rated Teacher of Heterocyclic Chemistry as Excellent
* 41**%** of the students have rated Teacher of Heterocyclic Chemistry as outstanding
* 13% of the students have rated Teacher of Heterocyclic Chemistry as good
* 0% of the students have rated Teacher of Heterocyclic Chemistry as average

**Analysis of feedbacks of students of Semester- I 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 practicals were conducted

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

A-Average

G-Good

E-Excellent

O-Outstanding

Table 5: Subject wise frequency of grades given by students for project/seminar/assignments

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Pharmaceutical & Forensic Analysis | Nano Chemistry | PhotoInorganic Chemistry | Polymer Chemistry | Analytical Method Development & Validation | Environmental Analysis & Monitoring | Food, Fertilizer & Pesticides Analysis | Medicinal Chemistry | Organic Synthesis : Retrosynthetic Approach | Chemistry of Natural Products | Heterocyclic Chemistry |
| A | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 |
| G | 9 | 8 | 10 | 15 | 18 | 4 | 4 | 17 | 6 | 14 | 19 |
| E | 15 | 13 | 26 | 26 | 30 | 14 | 16 | 50 | 40 | 26 | 62 |
| O | 44 | 21 | 8 | 7 | 58 | 46 | 36 | 25 | 26 | 16 | 59 |
| Total | 68 | 43 | 44 | 48 | 108 | 64 | 56 | 96 | 72 | 56 | 140 |

Table 6: Subject wise percentage of grades given by students for project/seminar/assignments

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Pharmaceutical & Forensic Analysis | Nano Chemistry | PhotoInorganic Chemistry | Polymer Chemistry | Analytical Method Development & Validation | Environmental Analysis & Monitoring | Food, Fertilizer & Pesticides Analysis | Medicinal Chemistry | Organic Synthesis : Retrosynthetic Approach | Chemistry of Natural Products | Heterocyclic Chemistry |
| A | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 |
| G | 13 | 19 | 23 | 31 | 17 | 6 | 7 | 18 | 8 | 25 | 14 |
| E | 22 | 30 | 59 | 54 | 28 | 22 | 29 | 52 | 56 | 46 | 44 |
| O | 65 | 49 | 18 | 15 | 54 | 72 | 64 | 26 | 36 | 29 | 42 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

 Fig. 3: Graphical representation of grades given by students for project/seminar/assignments

**Project/seminar/home assignment/tutorials Feedback: Pharmaceutical & Forensic Analysis**

* 22% of the students have rated project/seminar/home assignment/tutorials of Pharmaceutical & Forensic Analysis as Excellent
* 65**%** of the students have rated project/seminar/home assignment/tutorials of Pharmaceutical & Forensic Analysis as outstanding
* 13% of the students have rated project/seminar/home assignment/tutorials of Pharmaceutical & Forensic Analysis as good
* None of the students have rated project/seminar/home assignment/tutorials of Pharmaceutical & Forensic Analysis as average

**Project/seminar/home assignment/tutorials Feedback: Nano Chemistry**

* 30**%** of the students have rated project/seminar/home assignment/tutorials of Nano Chemistry as Excellent
* 49**%** of the students have rated project/seminar/home assignment/tutorials of Nano Chemistry as outstanding
* 19**%** of the students have rated project/seminar/home assignment/tutorials of Nano Chemistry as good
* 2% of the students have rated project/seminar/home assignment/tutorials of Nano Chemistry as average

**Project/seminar/home assignment/tutorials Feedback: PhotoInorganic Chemistry**

* 59**%** of the students have rated project/seminar/home assignment/tutorials of PhotoInorganic Chemistry as Excellent
* 18**%** of the students have rated project/seminar/home assignment/tutorials of PhotoInorganic Chemistry as outstanding
* 23% of the students have rated project/seminar/home assignment/tutorials of PhotoInorganic Chemistry as good
* None of the students have rated project/seminar/home assignment/tutorials of PhotoInorganic Chemistry as average

**Project/seminar/home assignment/tutorials Feedback: Polymer Chemistry**

* 54**%** of the students have rated project/seminar/home assignment/tutorials of Polymer Chemistry as Excellent
* 15**%** of the students have rated project/seminar/home assignment/tutorials of Polymer Chemistry as outstanding
* 31% of the students have rated project/seminar/home assignment/tutorials of Polymer Chemistry as good
* 0% of the students have rated project/seminar/home assignment/tutorials of Polymer Chemistry as average

**Project/seminar/home assignment/tutorials Feedback: Analytical Method Development & Validation**

* 28**%** of the students have rated project/seminar/home assignment/tutorials of Analytical Method Development & Validation as Excellent
* 54**%** of the students have rated project/seminar/home assignment/tutorials of Analytical Method Development & Validation as outstanding
* 17**%** of the students have rated project/seminar/home assignment/tutorials of Analytical Method Development & Validation as good
* 2% of the students have rated project/seminar/home assignment/tutorials of Analytical Method Development & Validation as average

**Project/seminar/home assignment/tutorials Feedback: Environmental Analysis & Monitoring**

* 22**%** of the students have rated project/seminar/home assignment/tutorials of Environmental Analysis & Monitoring as Excellent
* 72**%** of the students have rated project/seminar/home assignment/tutorials of Environmental Analysis & Monitoring as outstanding
* 6% of the students have rated project/seminar/home assignment/tutorials of Environmental Analysis & Monitoring as good
* 0% of the students have rated project/seminar/home assignment/tutorials of Environmental Analysis & Monitoring as average

**Project/seminar/home assignment/tutorials Feedback:** Food, Fertilizer & Pesticides Analysis

* 29**%** of the students have rated project/seminar/home assignment/tutorials of Food, Fertilizer & Pesticides Analysis as Excellent
* 64**%** of the students have rated project/seminar/home assignment/tutorials of Food, Fertilizer & Pesticides Analysis as outstanding
* 7% of the students have rated project/seminar/home assignment/tutorials of Food, Fertilizer & Pesticides Analysis as good
* 0% of the students have rated project/seminar/home assignment/tutorials of Food, Fertilizer & Pesticides Analysis as average

**Project/seminar/home assignment/tutorials Feedback:** Medicinal Chemistry

* 52**%** of the students have rated project/seminar/home assignment/tutorials of Medicinal Chemistry as Excellent
* 26**%** of the students have rated project/seminar/home assignment/tutorials of Medicinal Chemistry as outstanding
* 18% of the students have rated project/seminar/home assignment/tutorials of Medicinal Chemistry as good
* 4% of the students have rated project/seminar/home assignment/tutorials of Medicinal Chemistry as average

**Project/seminar/home assignment/tutorials Feedback:** Organic Synthesis : Retrosynthetic Approach

* 56**%** of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis : Retrosynthetic Approach as Excellent
* 36**%** of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis : Retrosynthetic Approach as outstanding
* 8% of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis : Retrosynthetic Approachas good
* 0% of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis : Retrosynthetic Approachas average

**Project/seminar/home assignment/tutorials Feedback: Chemistry of Natural Products**

* 46**%** of the students have rated project/seminar/home assignment/tutorials of Chemistry of Natural Productsas Excellent
* 29**%** of the students have rated project/seminar/home assignment/tutorials of Chemistry of Natural Productsas outstanding
* 25% of the students have rated project/seminar/home assignment/tutorials of Chemistry of Natural Productsas good
* 0% of the students have rated project/seminar/home assignment/tutorials of Chemistry of Natural Productsas average

**Project/seminar/home assignment/tutorials Feedback:** Heterocyclic Chemistry

* 44**%** of the students have rated project/seminar/home assignment/tutorials of Heterocyclic Chemistry as Excellent
* 42**%** of the students have rated project/seminar/home assignment/tutorials of Heterocyclic Chemistry as outstanding
* 14% of the students have rated project/seminar/home assignment/tutorials of Heterocyclic Chemistry as good
* 0% of the students have rated project/seminar/home assignment/tutorials of Heterocyclic Chemistry as average

In part IV students have given overall feedback about 3 different aspects as follows:

1. I enjoyed the seminar, project, tutorials, home assignments.
2. I would recommend the course to others
3. Class environment was student friendly

Table 7: Subject wise frequency of grades given by students for overall

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Pharmaceutical & Forensic Analysis | Nano Chemistry | PhotoInorganic Chemistry | Polymer Chemistry | Analytical Method Development & Validation | Environmental Analysis & Monitoring | Food, Fertilizer & Pesticides Analysis | Medicinal Chemistry | Organic Synthesis : Retrosynthetic Approach | Chemistry of Natural Products | Heterocyclic Chemistry |
| A | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| G | 6 | 5 | 9 | 9 | 14 | 3 | 3 | 11 | 3 | 10 | 16 |
| E | 12 | 8 | 16 | 18 | 27 | 9 | 12 | 40 | 28 | 17 | 47 |
| O | 33 | 20 | 8 | 8 | 40 | 36 | 27 | 18 | 23 | 15 | 42 |
| Total | 51 | 33 | 33 | 36 | 81 | 48 | 42 | 72 | 54 | 42 | 105 |

Table 8: Subject wise percentage of grades given by students for overall

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | Pharmaceutical & Forensic Analysis | Nano Chemistry | PhotoInorganic Chemistry | Polymer Chemistry | Analytical Method Development & Validation | Environmental Analysis & Monitoring | Food, Fertilizer & Pesticides Analysis | Medicinal Chemistry | Organic Synthesis : Retrosynthetic Approach | Chemistry of Natural Products | Heterocyclic Chemistry |
| A | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| G | 12 | 15 | 27 | 25 | 17 | 6 | 7 | 15 | 6 | 26 | 15 |
| E | 24 | 24 | 48 | 50 | 33 | 19 | 29 | 56 | 52 | 55 | 45 |
| O | 65 | 61 | 24 | 22 | 49 | 75 | 64 | 25 | 43 | 19 | 40 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

 Fig. 3: Graphical representation of grades given by students for project/seminar/assignments

**Overall Feedback: Pharmaceutical & Forensic Analysis**

* 24% of the students have rated Over all Feedback of Pharmaceutical & Forensic Analysis as Excellent
* 65**%** of the students have rated Over all Feedback of Pharmaceutical & Forensic Analysis as outstanding
* 12% of the students have rated Over all Feedback of Pharmaceutical & Forensic Analysis as good
* None of the students have rated Over all Feedback of Pharmaceutical & Forensic Analysis as average

**Overall Feedback: Nano Chemistry**

* 24**%** of the students have rated Over all Feedback of Nano Chemistry as Excellent
* 61**%** of the students have rated Over all Feedback of Nano Chemistry as outstanding
* 15**%** of the students have rated Over all Feedback of Nano Chemistry as good
* 0% of the students have rated Over all Feedback of Nano Chemistry as average

**Overall Feedback: PhotoInorganic Chemistry**

* 48**%** of the students have rated Over all Feedback of PhotoInorganic Chemistry as Excellent
* 24**%** of the students have rated Over all Feedback of PhotoInorganic Chemistry as outstanding
* 27% of the students have rated Over all Feedback of PhotoInorganic Chemistry as good
* None of the students have rated Over all Feedback of PhotoInorganic Chemistry as average

**Overall Feedback: Polymer Chemistry**

* 50**%** of the students have rated Over all Feedback of Polymer Chemistry as Excellent
* 22**%** of the students have rated Over all Feedback of Polymer Chemistry as outstanding
* 25% of the students have rated Over all Feedback of Polymer Chemistry as good
* 3% of the students have rated Over all Feedback of Polymer Chemistry as average

**Overall Feedback: Analytical Method Development & Validation**

* 33**%** of the students have rated Over all Feedback of Analytical Method Development & Validation as Excellent
* 49**%** of the students have rated Over all Feedback of Analytical Method Development & Validation as outstanding
* 17**%** of the students have rated Over all Feedback of Analytical Method Development & Validation as good
* 0% of the students have rated Over all Feedback of Analytical Method Development & Validation as average

**Overall Feedback: Environmental Analysis & Monitoring**

* 19**%** of the students have rated Over all Feedback of Environmental Analysis & Monitoring as Excellent
* 75**%** of the students have rated Over all Feedback of Environmental Analysis & Monitoring as outstanding
* 6% of the students have rated Over all Feedback of Environmental Analysis & Monitoring as good
* 0% of the students have rated Over all Feedback of Environmental Analysis & Monitoring as average

**Overall Feedback:** Food, Fertilizer & Pesticides Analysis

* 29**%** of the students have rated Over all Feedback of Food, Fertilizer & Pesticides Analysis as Excellent
* 64**%** of the students have rated Over all Feedback of Food, Fertilizer & Pesticides Analysis as outstanding
* 7% of the students have rated Over all Feedback of Food, Fertilizer & Pesticides Analysis as good
* 0% of the students have rated Over all Feedback of Food, Fertilizer & Pesticides Analysis as average

**Overall Feedback:** Medicinal Chemistry

* 56**%** of the students have rated Over all Feedback of Medicinal Chemistry as Excellent
* 25**%** of the students have rated Over all Feedback of Medicinal Chemistry as outstanding
* 15% of the students have rated Over all Feedback of Medicinal Chemistry as good
* 4% of the students have rated Over all Feedback of Medicinal Chemistry as average

**Overall Feedback:** Organic Synthesis : Retrosynthetic Approach

* 52**%** of the students have rated Over all Feedback of Organic Synthesis : Retrosynthetic Approach as Excellent
* 43**%** of the students have rated Over all Feedback of Organic Synthesis : Retrosynthetic Approach as outstanding
* 6% of the students have rated Over all Feedback of Organic Synthesis : Retrosynthetic Approach as good
* 0% of the students have rated Over all Feedback of Organic Synthesis : Retrosynthetic Approach as average

**Overall Feedback: Chemistry of Natural Products**

* 55**%** of the students have rated Over all Feedback of Chemistry of Natural Productsas Excellent
* 19**%** of the students have rated Over all Feedback of Chemistry of Natural Productsas outstanding
* 26% of the students have rated Over all Feedback of Chemistry of Natural Productsas good
* 0% of the students have rated Over all Feedback of Chemistry of Natural Productsas average

**Overall Feedback:** Heterocyclic Chemistry

* 45**%** of the students have rated Over all Feedback of Heterocyclic Chemistry as Excellent
* 40**%** of the students have rated Over all Feedback of Heterocyclic Chemistry as outstanding
* 15% of the students have rated Over all Feedback of Heterocyclic Chemistry as good
* 0% of the students have rated Over all Feedback of Heterocyclic Chemistry as average

**Criterion 5: Infrastructure**

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

 Table 5: Infrastructure feedback summary

|  |  |  |
| --- | --- | --- |
| Grade | Frequency | Percent |
| A | 188 | 18 |
| G | 225 | 22 |
| E | 393 | 38 |
| O | 216 | 21 |
| Total | 1022 | 100 |

* 38**%** of the students have rated Infrastructure facilities in the department as Excellent
* 21**%** of the students have rated Infrastructure facilities in the department as outstanding
* 22% of the students have rated Infrastructure facilities in the department as good
* 18% of the students have rated Infrastructure facilities in the department as average