

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD**



**NAAC Re-accredited with 'A' Grade
DEPARTMENT OF CHEMISTRY**

**Analysis of feedbacks of M. Sc. Chemistry Ist Semester students for the
academic year, 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

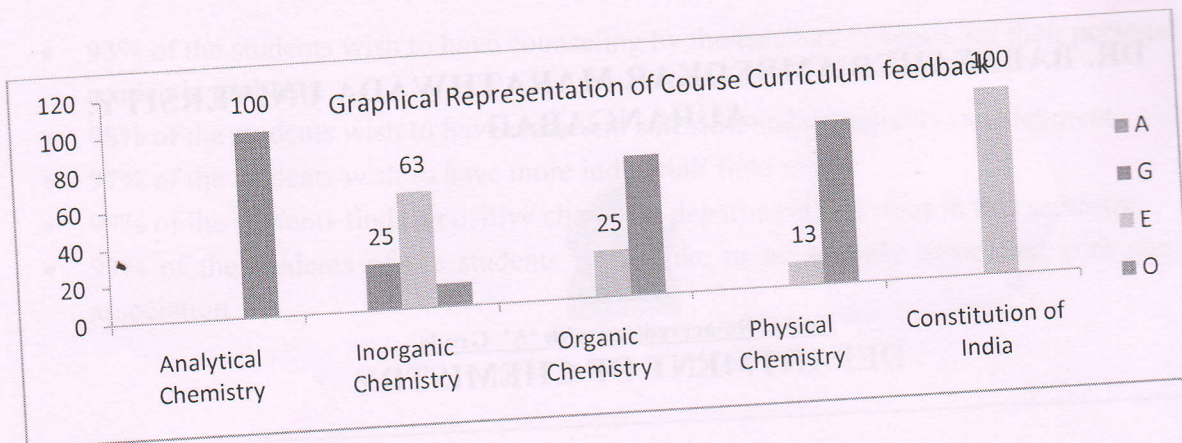
- The course objectives and outcomes were clearly defined/identified
- Length: Course material were of appropriate length
- Relevance: Course material were relevant
- Quality: Course material were of high quality and up to date
- Organization: Material was well organized
- The course provides useful inputs
- The course provides focus on skill development/ employability/ entrepreneurship
- The course updates understanding in this field as per their satisfaction in 4 levels:
A- Average
G- Good
E- Excellent
O- Outstanding

The students graded the about course curriculum as follows:

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

Grade	Analytical Chemistry		Inorganic Chemistry		Organic Chemistry		Physical Chemistry		Constitution of India	
	Freq.	%	Freq.	%	Freq.	%	Freq.	%	Freq.	%
A	0	0	0	0	0	0	0	0	0	0
G	0	0	334	25	0	0	0	0	0	0
E	0	0	835	63	322	25	163	13	1208	100
O	1256	100	167	13	966	75	1141	88	0	0
Total	1256	100	1336	100	1288	100	1304	100	1208	100





- Course Curriculum Feedback: Analytical Chemistry**
- 100% of the students have rated course curriculum of Analytical Chemistry as outstanding
 - None of the students have rated course curriculum of Analytical Chemistry as Excellent
 - None of the students have rated course curriculum of Analytical Chemistry as good
 - None of the students have rated course curriculum of Analytical Chemistry as average

- Course Curriculum Feedback: Inorganic Chemistry**
- 63% of the students have rated course curriculum of Inorganic Chemistry as Excellent
 - 13% of the students have rated course curriculum of Inorganic Chemistry as outstanding
 - 25% of the students have rated course curriculum of Inorganic Chemistry as good
 - None of the students have rated course curriculum of Inorganic Chemistry as average

- Course Curriculum Feedback: Organic Chemistry**
- 75% of the students have rated course curriculum of Organic Chemistry as Excellent
 - 25% of the students have rated course curriculum of Organic Chemistry as outstanding
 - None of the students have rated course curriculum of Organic Chemistry as good
 - None of the students have rated course curriculum of Organic Chemistry as average

- Course Curriculum Feedback: Physical Chemistry**
- 88% of the students have rated course curriculum of Physical Chemistry as Excellent
 - 13% of the students have rated course curriculum of Physical Chemistry as outstanding
 - None of the students have rated course curriculum of Physical Chemistry as good
 - None of the students have rated course curriculum of Physical Chemistry as average

- Course Curriculum Feedback: Constitution of India**
- 100% of the students have rated course curriculum of Constitution of India as Excellent
 - None of the students have rated course curriculum of Constitution of India as outstanding
 - None of the students have rated course curriculum of Constitution of India as good
 - None of the students have rated course curriculum of Constitution of India 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

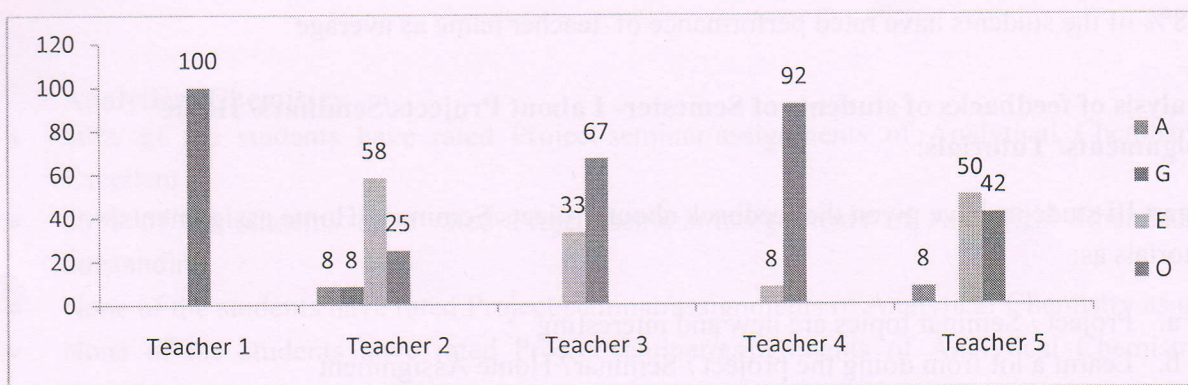
G-Good

E-Excellent

O-Outstanding

Table 2: Percentage of grades given by students for performance of teachers

Grade	Analytical Chemistry		Inorganic Chemistry		Organic Chemistry		Physical Chemistry		Constitution of India	
	Freq.	%	Freq.	%	Freq.	%	Freq.	%	Freq.	%
A	0	0	167	8	0	0	0	0	151	8
G	0	0	167	8	0	0	0	0	0	0
E	0	0	1169	58	644	33	163	8	906	50
O	1884	100	501	25	1288	67	1793	92	755	42
Total	1884	100	2004	100	1932	100	1956	100	1812	100



Analytical Chemistry (Smt. Anusaya S. Chavan)

- 100 % of the students have rated performance of teacher as outstanding
- None of the students have rated performance of teacher name as Excellent
- None of the students have rated performance of teacher name as good
- None of the students have rated performance of teacher name as average

Inorganic Chemistry (Prof. S. T. Gaikwad, Prof. M K Lande , Mr. S. R. Sonone)



- 58% of the students have rated performance of teacher name as Excellent
- 25% of the students have rated performance of teacher name as outstanding
- 8% of the students have rated performance of teacher name as good
- 8% of the students have rated performance of teacher name as average

Organic Chemistry (Dr. Giribala M. Bondle , Dr. B. B. Shingate,)

- 33% of the students have rated performance of teacher name as Excellent
- 67% of the students have rated performance of teacher name as outstanding
- None of the students have rated performance of teacher name as good
- None of the students have rated performance of teacher name as average

Physical Chemistry (Prof. Anjali S. Rajbhoj ,Prof. S. G. Shankarwar, Dr. B. R. Sathe)

- 8% of the students have rated performance of teacher name as Excellent
- 92% of the students have rated performance of teacher name as outstanding
- None of the students have rated performance of teacher name as good
- None of the students have rated performance of teacher name as average

Constitution of India (Dr. Shrikrishna More, Dr. Hirode , Dr. Jadhav)

- 50% of the students have rated performance of teacher name as Excellent
- 42% of the students have rated performance of teacher name as outstanding
- None of the students have rated performance of teacher name as good
- 8% of the students have rated performance of teacher name 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:

- Project / Seminar topics are new and interesting
- Learnt a lot from doing the project / Seminar? Home Assignment
- The assignment was regularly given and checked
- 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 3: Subject wise Percentage of grades given by students for project/seminar/assignments



...students have rated performance of teacher name as *Excellent*

Dr. Giribala M. Bhandari

...students have rated performance of teacher name as *Excellent*

Dr. Giribala M. Bhandari

...students have rated performance of teacher name as *Excellent*

Dr. Giribala M. Bhandari

...students have rated performance of teacher name as *Excellent*

Dr. Giribala M. Bhandari

Physical Chemistry (Prof. Anjali S. Rajhuf, Prof. S. G. Shinde)

- 8% of the students have rated performance of teacher name as *Excellent*
- 90% of the students have rated performance of teacher name as *outstanding*

- None of the students have rated performance of teacher name as good
 - None of the students have rated performance of teacher name as average
- Constitution of India (Dr. Shrikrishna More, Dr. Hirode , Dr. Jadhav)**
- 50% of the students have rated performance of teacher name as Excellent
 - 42% of the students have rated performance of teacher name as outstanding
 - None of the students have rated performance of teacher name as good
 - 8% of the students have rated performance of teacher name 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:

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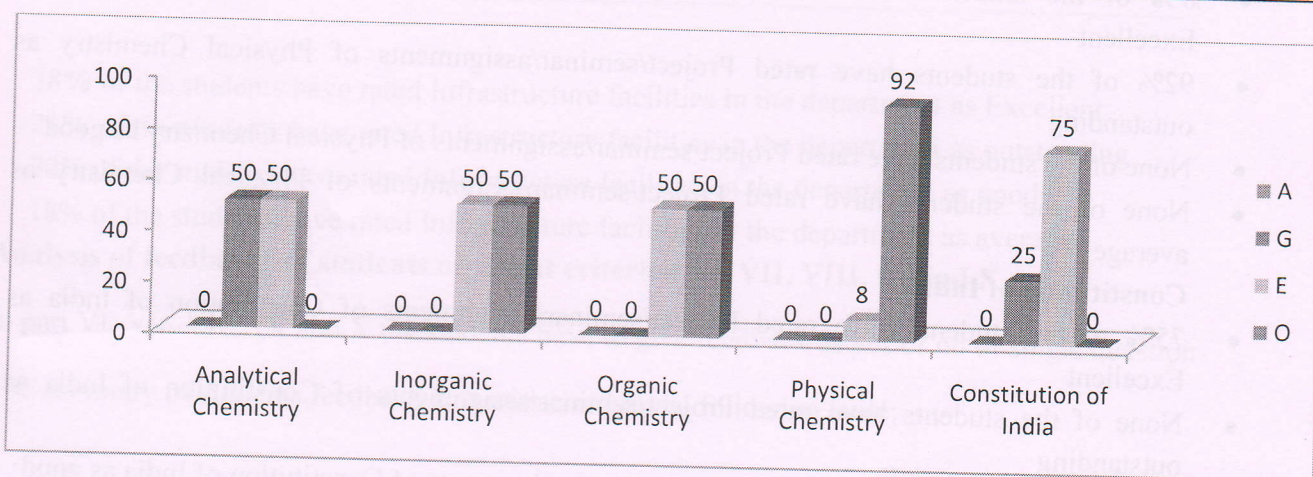
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Table 3: Subject wise Percentage of grades given by students for project/seminar/assignments



Grade	Analytical Chemistry		Inorganic Chemistry		Organic Chemistry		Physical Chemistry		Constitution of India	
	Freq.	%	Freq.	%	Freq.	%	Freq.	%	Freq.	%
A	0	0	0	0	0	0	0	0	0	0
G	314	50	0	0	0	0	0	0	151	25
E	314	50	334	50	322	50	163	8	453	75
O	0	0	334	50	322	50	1793	92	0	0
Total	628	100	668	100	644	100	1956	100	604	100



Analytical Chemistry

- 50% of the students have rated Project/seminar/assignments of Analytical Chemistry as Excellent
- 50% of the students have rated Project/seminar/assignments of Analytical Chemistry as outstanding
- None of the students have rated Project/seminar/assignments of Analytical Chemistry as good
- None of the students have rated Project/seminar/assignments of Analytical Chemistry as average

Inorganic Chemistry

- 50% of the students have rated Project/seminar/assignments of Inorganic Chemistry as Excellent
- 50% of the students have rated Project/seminar/assignments of Inorganic Chemistry as outstanding
- None of the students have rated Project/seminar/assignments of Inorganic Chemistry as good
- None of the students have rated Project/seminar/assignments of Inorganic Chemistry as average

Organic Chemistry

- 50% of the students have rated Project/seminar/assignments of Organic Chemistry as Excellent
- 50% of the students have rated Project/seminar/assignments of Organic Chemistry as outstanding
- None of the students have rated Project/seminar/assignments of Organic Chemistry as good
- None of the students have rated Project/seminar/assignments of Organic Chemistry as average

Physical Chemistry

- 8% of the students have rated Project/seminar/assignments of Physical Chemistry as Excellent
- 92% of the students have rated Project/seminar/assignments of Physical Chemistry as outstanding
- None of the students have rated Project/seminar/assignments of Physical Chemistry as good
- None of the students have rated Project/seminar/assignments of Physical Chemistry as average

Constitution of India

- 75% of the students have rated Project/seminar/assignments of Constitution of India as Excellent
- None of the students have rated Project/seminar/assignments of Constitution of India as outstanding
- 25% of the students have rated Project/seminar/assignments of Constitution of India as good
- None of the students have rated Project/seminar/assignments of Constitution of India as average

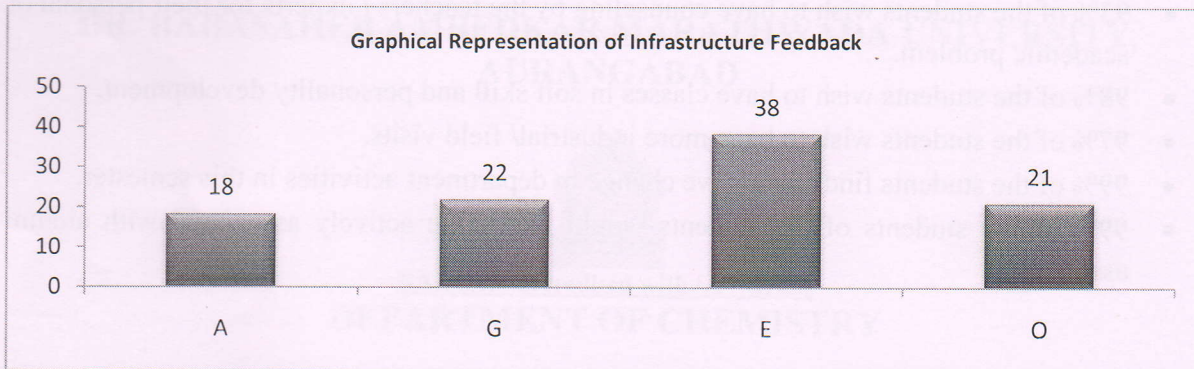
Criterion 5: Infrastructure

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





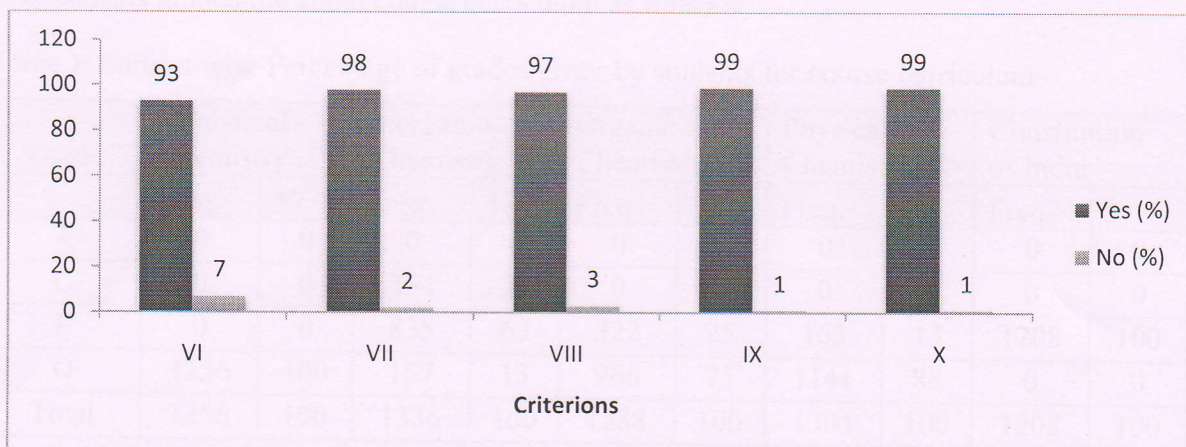
- 38% of the students have rated Infrastructure facilities in the department as Excellent
- 21% of the students have rated Infrastructure facilities in the department as outstanding
- 22% of the students have rated Infrastructure facilities in the department as good
- 18% of the students have rated Infrastructure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

Analysis of feedbacks of students of about criterion VI, VII, VIII, IX and X

In part VI, VII, VIII, IX and X the students have to give feedback as yes or no of single question

The summary of students feedback is summarized in the following table:

Feedback about Criterion	Yes (%)	No (%)
VI	48	52
VII	80	20
VIII	78	22
IX	68	32
X	62	32

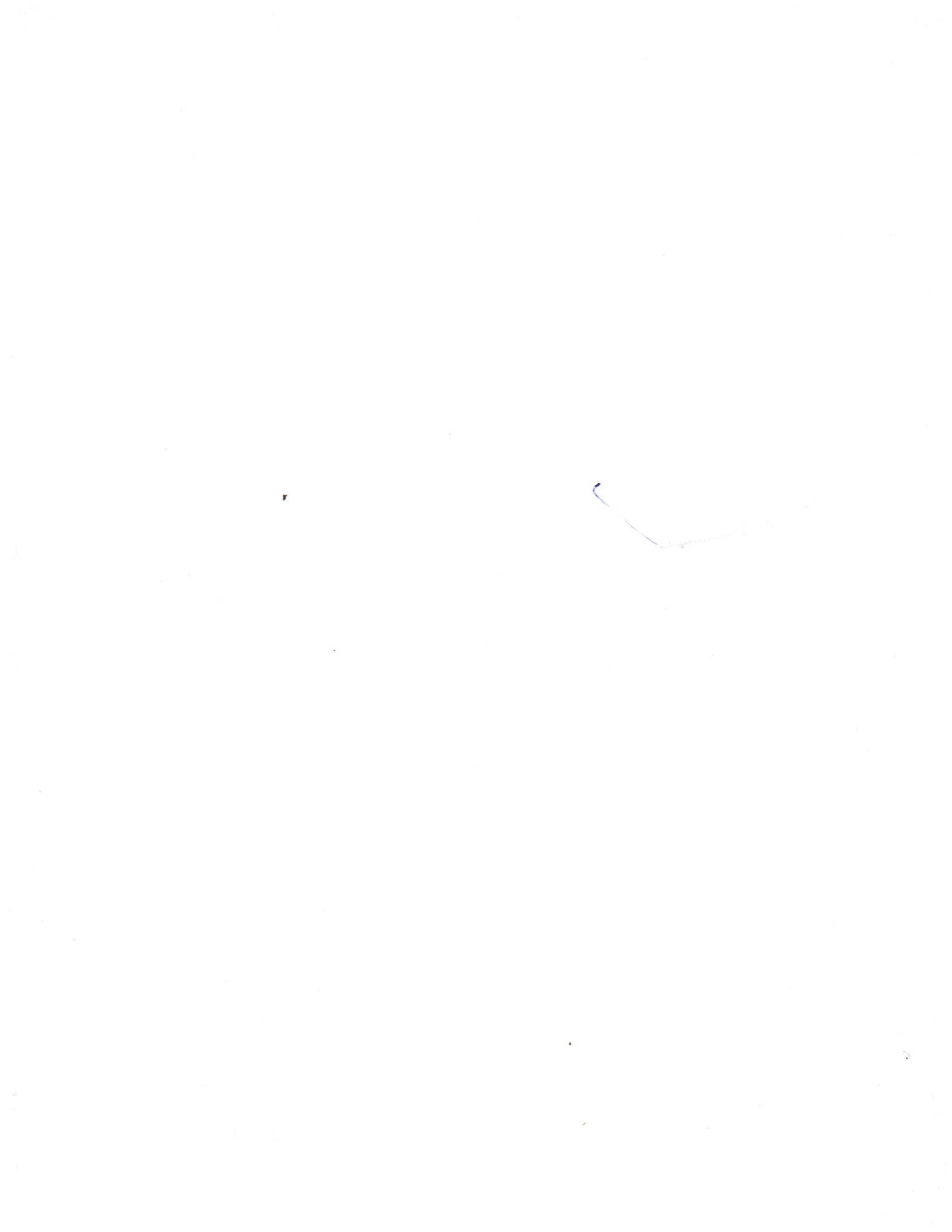


- 93% of the students wish to have counseling by the teachers / experts for their personal or academic problem.
- 98% of the students wish to have classes in soft skill and personality development.
- 97% of the students wish to have more industrial/ field visits.
- 99% of the students finds a positive change in department activities in this semester.
- 99% of the students of the students would like to be actively associated with alumni association



A handwritten signature in blue ink, appearing to read "K. N. D.", written over a horizontal line.

**Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.**



DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD



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DEPARTMENT OF CHEMISTRY

Analysis of feedbacks of M. Sc. Chemistry II semester students for the academic year 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

- The course objectives and outcomes were clearly defined/identified
- Length: Course material were of appropriate length
- Relevance: Course material were relevant
- Quality: Course material were of high quality and up to date
- Organization: Material was well organized
- The course provides useful inputs
- The course provides focus on skill development/ employability/ entrepreneurship
- The course updates understanding in this field as per their satisfaction in 4 levels:
A- Average
G- Good
E- Excellent
O- Outstanding

The students graded the about course curriculum as follows:

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

Grade	Research Methodology	Physical Chemistry	Organic Chemistry	Inorganic Chemistry	Analytical Chemistry	Review of Literature
A	25	18	9	4	8	14
G	315	275	56	93	95	126
E	798	699	346	373	348	396
O	766	471	365	306	325	318
Total	1904	1463	776	776	776	854



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

Grade	Research Methodology	Physical Chemistry	Organic Chemistry	Inorganic Chemistry	Analytical Chemistry	Review of Literature
A	1	1	1	1	1	2
G	17	19	7	12	12	15
E	42	48	45	48	45	46
O	40	32	47	39	42	37
Total	100	100	100	100	100	100

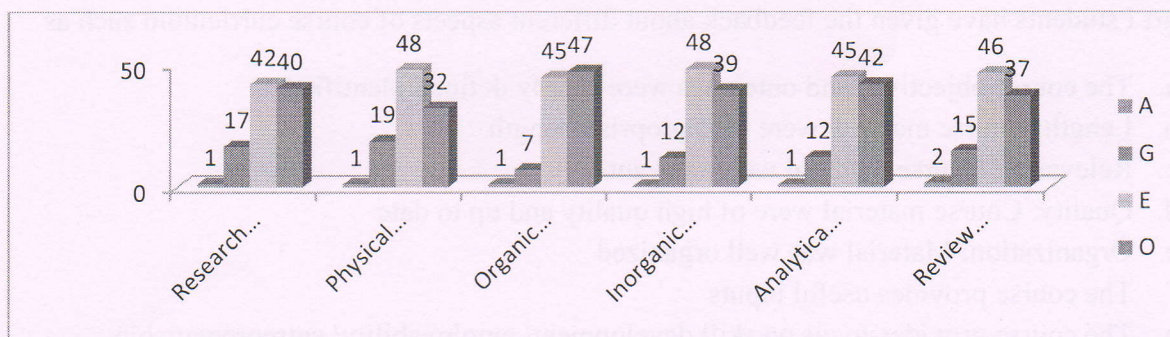


Fig. 1: Graphical representation of grades given to course curriculum by students

Course Curriculum Feedback: Reserch Methodology

- 42% of the students have rated course curriculum of Research Methodology as outstanding
- 40% of the students have rated course curriculum of Research Methodology as Excellent
- 17% of the students have rated course curriculum of Research Methodology as good
- 1% of the students have rated course curriculum of Research Methodology as average

Course Curriculum Feedback: Physical Chemistry

- 48% of the students have rated course curriculum of Physical Chemistry as Excellent
- 32% of the students have rated course curriculum of Physical Chemistry as outstanding
- 19% of the students have rated course curriculum of Physical Chemistry as good
- 1% of the students have rated course curriculum of Physical Chemistry as average

Course Curriculum Feedback: Organic Chemistry

- 45% of the students have rated course curriculum of Organic Chemistry as Excellent
- 47% of the students have rated course curriculum of Organic Chemistry as outstanding
- 7% of the students have rated course curriculum of Organic Chemistry as good

- 1% of the students have rated course curriculum of Organic Chemistry as average

Course Curriculum Feedback: Inorganic Chemistry

- 48% of the students have rated course curriculum of Inorganic Chemistry as Excellent
- 39% of the students have rated course curriculum of Inorganic Chemistry as outstanding
- 12% of the students have rated course curriculum of Inorganic Chemistry as good
- 1% of the students have rated course curriculum of Inorganic Chemistry as average

Course Curriculum Feedback: Analytical Chemistry

- 45% of the students have rated course curriculum of Analytical Chemistry as Excellent
- 42% of the students have rated course curriculum of Analytical Chemistry as outstanding
- 12% of the students have rated course curriculum of Analytical Chemistry as good
- 1% of the students have rated course curriculum of Analytical Chemistry as average

Course Curriculum Feedback: Review of Literature

- 46% of the students have rated course curriculum of Review of Literature as Excellent
- 37% of the students have rated course curriculum of Review of Literature as outstanding
- 15% of the students have rated course curriculum of Review of Literature as good
- 2% of the students have rated course curriculum of Review of Literature 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	Research Methodology	Physical Chemistry	Organic Chemistry	Inorganic Chemistry	Analytical Chemistry	Review of Literature
A	33	44	5	21	0	5
G	283	382	150	139	63	145
E	1314	1128	576	583	220	433
O	1286	1050	433	336	173	545
Total	2916	2604	1164	1079	456	1128



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

Grade	Research Methodology	Physical Chemistry	Organic Chemistry	Inorganic Chemistry	Analytical Chemistry	Review of Literature
A	1	2	0	2	0	0
G	10	15	13	13	14	13
E	45	43	49	54	48	38
O	44	40	37	31	38	48
Total	100	100	100	100	100	100

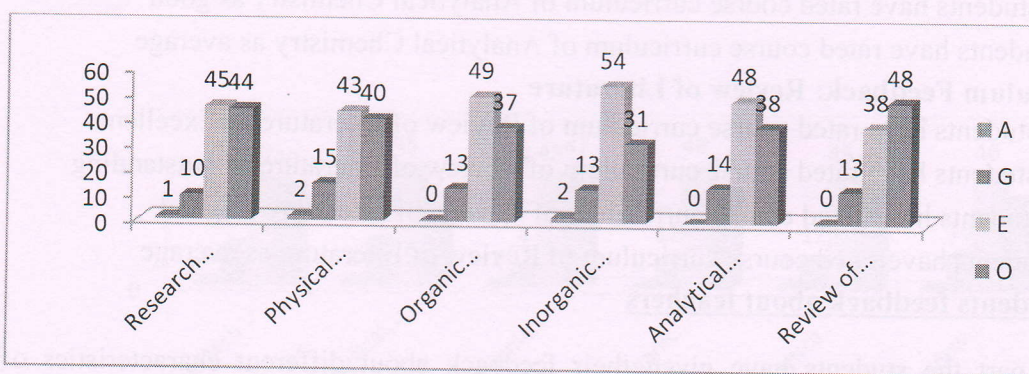


Fig. 2 : Graphical representation of grades given to teachers by students

Teacher's Feedback(Smt. A. S. Chavan): Reserch Methodology

- 44% of the students have rated performance of teacher of Research Methodology as outstanding
- 45% of the students have rated performance of teacher of Research Methodology as Excellent
- 10% of the students have rated performance of teacher of Research Methodology as good
- 1% of the students have rated performance of teacher of Research Methodology as average

Teacher's Feedback(Prof. A. S. Rajbhoj, Prof. S. G. Shankarwar): Physical Chemistry

- 43% of the students have rated performance of teacher of Physical Chemistry as Excellent
- 40% of the students have rated performance of teacher of Physical Chemistry as outstanding
- 15% of the students have rated performance of teacher of Physical Chemistry as good
- 2% of the students have rated performance of teacher of Physical Chemistry as average

Teacher's Feedback(Dr. B. B. Shingate, Dr. G. M. Bondle): Organic Chemistry

- 49% of the students have rated performance of teacher of Organic Chemistry as Excellent
- 37% of the students have rated performance of teacher of Organic Chemistry as outstanding
- 13% of the students have rated performance of teacher of Organic Chemistry as good



- 0% of the students have rated performance of teacher of Organic Chemistry as average

Teacher's Feedback(Prof. S. T. Gaikwad, Prof. M K Lande): Inorganic Chemistry

- 54% of the students have rated performance of teacher of Inorganic Chemistry as Excellent
- 31% of the students have rated performance of teacher of Inorganic Chemistry as outstanding
- 13% of the students have rated performance of teacher of Inorganic Chemistry as good
- 2% of the students have rated performance of teacher of Inorganic Chemistry as average

Teacher's Feedback(Dr. B. R. Sathe): Analytical Chemistry

- 48% of the students have rated performance of teacher of Analytical Chemistry as Excellent
- 38% of the students have rated performance of teacher of Analytical Chemistry as outstanding
- 14% of the students have rated performance of teacher of Analytical Chemistry as good
- 0% of the students have rated performance of teacher of Analytical Chemistry as average

**Teacher's Feedback(Prof. S. T. Gaikwad, Prof. A. S. Rajbhoj, Prof m. K Lande, Prof. S. G. Shankarwar, Dr. G. M. BONDle, Dr. B. B. Shingate, Dr. B. R .Sathe, Smt. A. S. Chavan):
Review of Literature**

- 38% of the students have rated performance of teacher of Review of Literature as Excellent
- 48% of the students have rated performance of teacher of Review of Literature as outstanding
- 13% of the students have rated performance of teacher of Review of Literature as good
- 0% of the students have rated performance of teacher of Review of Literature 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:

- Project / Seminar topics are new and interesting
- Learnt a lot from doing the project / Seminar? Home Assignment
- The assignment was regularly given and checked
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as per student satisfaction level students have rated in 4 levels:

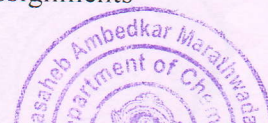
A-Average

G-Good

E-Excellent

O-Outstanding

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



Grade	Research Methodology	Physical Chemistry	Organic Chemistry	Inorganic Chemistry	Analytical Chemistry	Review of Literature
A	12	6	3	1	3	7
G	159	126	25	51	43	64
E	412	359	171	212	178	204
O	369	241	189	124	164	153
Total	952	732	388	388	388	428

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

Grade	Research Methodology	Physical Chemistry	Organic Chemistry	Inorganic Chemistry	Analytical Chemistry	Review of Literature
A	1	1	1	0	1	2
G	17	17	6	13	11	15
E	43	49	44	55	46	48
O	39	33	49	32	42	36
Total	100	100	100	100	100	100

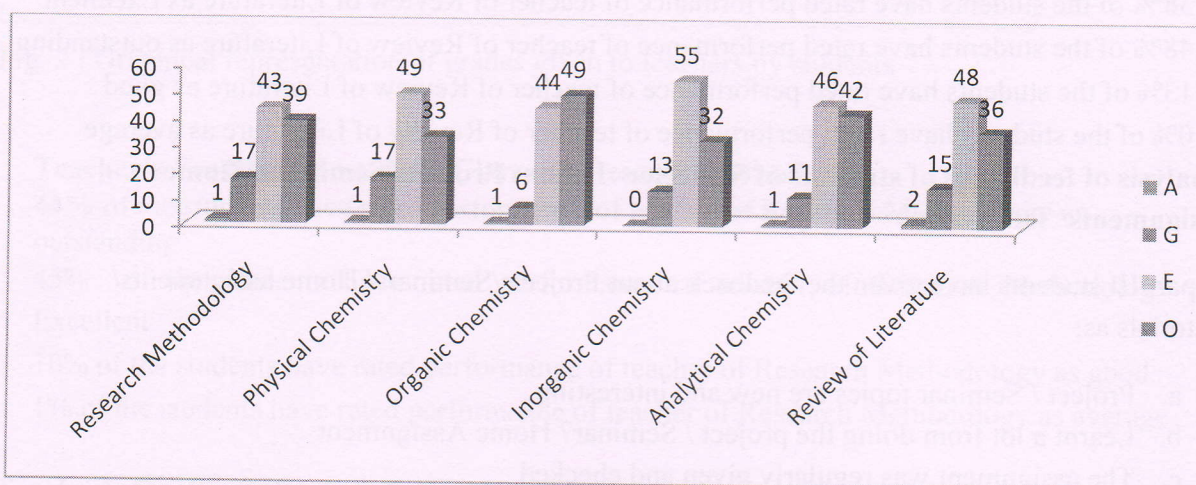


Fig. 3: Graphical representation of grades given by students for project/seminar/assignments

Research Methodology

- 43% of the students have rated Project/seminar/assignments of Analytical Chemistry as Excellent
- 39% of the students have rated Project/seminar/assignments of Analytical Chemistry as outstanding
- 17% of the students have rated Project/seminar/assignments of Analytical Chemistry as good
- 1% of the students have rated Project/seminar/assignments of Analytical Chemistry as average



Physical Chemistry

- 49% of the students have rated Project/seminar/assignments of Physical Chemistry as Excellent
- 33% of the students have rated Project/seminar/assignments of Physical Chemistry as outstanding
- 17% of the students have rated Project/seminar/assignments of Physical Chemistry as good
- 1% of the students have rated Project/seminar/assignments of Physical Chemistry as average

Inorganic Chemistry

- 55% of the students have rated Project/seminar/assignments of Inorganic Chemistry as Excellent
- 32% of the students have rated Project/seminar/assignments of Inorganic Chemistry as outstanding
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Organic Chemistry

- 50% of the students have rated Project/seminar/assignments of Organic Chemistry as Excellent
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Analytical Chemistry

- 46% of the students have rated Project/seminar/assignments of Analytical Chemistry as Excellent
- 42% of the students have rated Project/seminar/assignments of Analytical Chemistry as outstanding
- 11% of the students have rated Project/seminar/assignments of Analytical Chemistry as good
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Review of Literature

- 48% of the students have rated Project/seminar/assignments of Review of Literature as Excellent



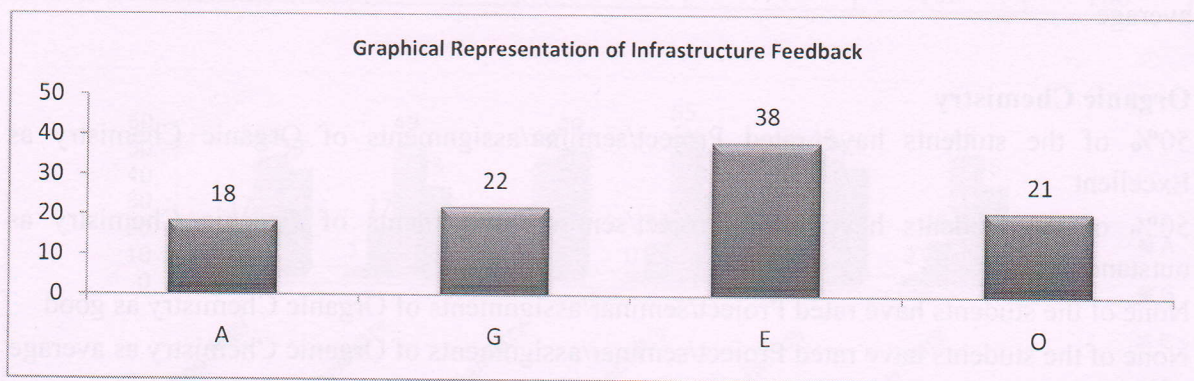
- 36% of the students have rated Project/seminar/assignments of Review of Literature as outstanding
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Criterion 5: Infrastructure

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

Table 5: Infrastructure feedback summary

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

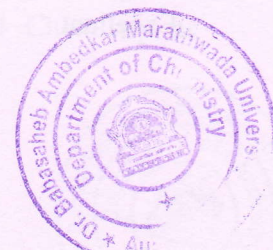


- 38% of the students have rated Infrastructure facilities in the department as Excellent
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- 18% of the students have rated Infrastructure facilities in the department as average

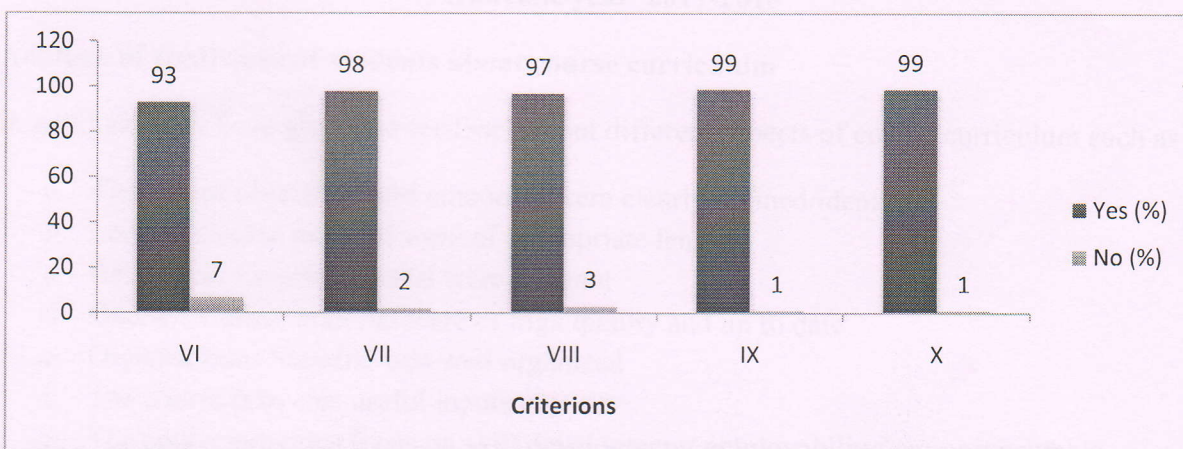
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**Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.**

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD



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DEPARTMENT OF CHEMISTRY

Analysis of feedbacks of students of M.Sc. Chemistry III Semester for the academic year , 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

- The course objectives and outcomes were clearly defined/identified
- Length: Course material were of appropriate length
- Relevance: Course material were relevant
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A- Average

G- Good

E- Excellent

O- Outstanding

The students graded the about course curriculum as follows:

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

Grade	Bioinorganic and Supramolecular Chemistry	Advanced Organic Chemistry	Structural Elucidation by Spectral Methods	Solid State Chemistry	Photochemistry, Free Radicals and Pericyclic Reactions	Thermodynamics	Advanced Electrochemistry	Electroanalytical Techniques	Advanced Analytical Techniques-I	Quality Assurance & Accreditation	Organic Synthesis
A	3	2	37	3	0	10	1	0	0	0	1
G	12	75	161	23	37	44	11	8	8	11	27
E	51	154	233	53	122	26	33	24	13	34	80
O	15	152	97	25	33	24	51	128	139	107	68
Total	81	383	528	104	192	104	96	160	160	152	176



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

Grade	Bioinorganic and Supramolecular Chemistry	Advanced Organic Chemistry	Structural Elucidation by Spectral Methods	Solid State Chemistry	Photochemistry, Free Radicals and Pericyclic Reactions	Thermodynamics	Advanced Electrochemistry	Electro-analytical Techniques	Advanced Analytical Techniques-I	Quality Assurance & Accreditation	Organic Synthesis
A	4	1	7	3	0	10	1	0	0	0	1
G	15	20	30	22	19	42	11	5	5	7	15
E	63	40	44	51	64	25	34	15	8	22	45
O	19	40	18	24	17	23	53	80	87	70	39
Total	100	100	100	100	100	100	100	100	100	100	100

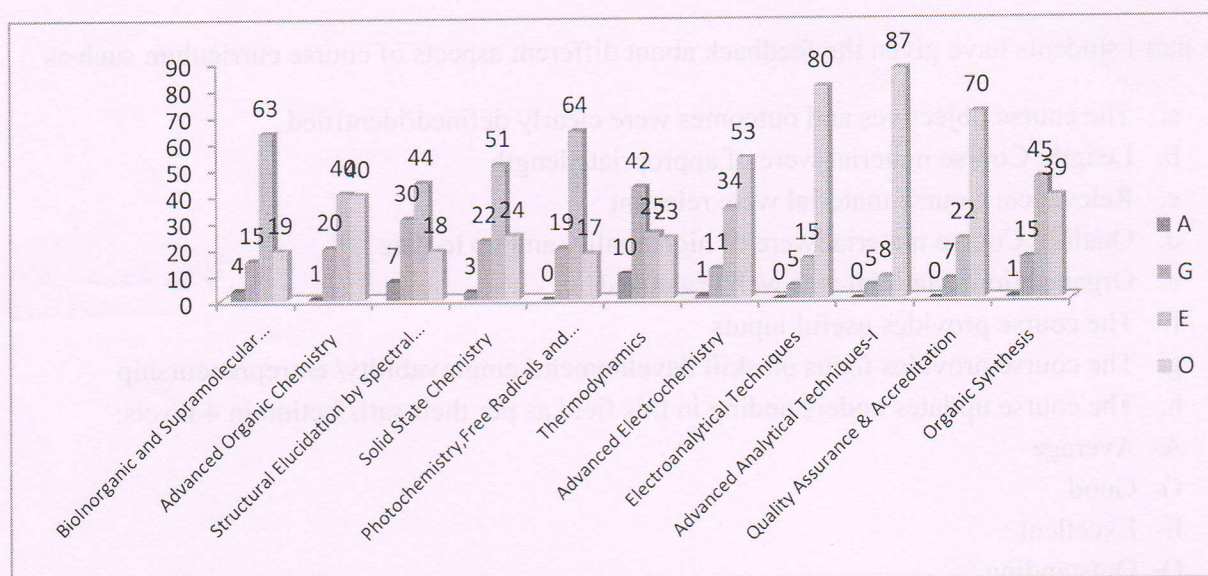


Fig. 1: Graphical representation of grades given to course curriculum by students

Course Curriculum Feedback: Bioinorganic and Supramolecular Chemistry

- 63% of the students have rated course curriculum of Bio-inorganic and Supramolecular Chemistry as Excellent
- 19% of the students have rated course curriculum of Bio-inorganic and Supramolecular Chemistry as outstanding
- 15% of the students have rated course curriculum of Bio-inorganic and Supramolecular Chemistry as good
- 4% of the students have rated course curriculum of Bio-inorganic and Supramolecular Chemistry as average

Course Curriculum Feedback: Advanced Organic Chemistry



- 40% of the students have rated course curriculum of Advanced Organic Chemistry as Excellent
- 40% of the students have rated course curriculum of Advanced Organic Chemistry as outstanding
- 20% of the students have rated course curriculum of Advanced Organic Chemistry as good
- 1% of the students have rated course curriculum of Advanced Organic Chemistry as average

Course Curriculum Feedback: Structural Elucidation by Spectral Methods

- 44% of the students have rated course curriculum of Structural Elucidation by Spectral Methods as Excellent
- 18% of the students have rated course curriculum of Structural Elucidation by Spectral Methods as outstanding
- 30% of the students have rated course curriculum of Structural Elucidation by Spectral Methods as good
- 7% of the students have rated course curriculum of Structural Elucidation by Spectral Methods as average

Course Curriculum Feedback: Solid State Chemistry

- 51% of the students have rated course curriculum of Solid State Chemistry as Excellent
- 24% of the students have rated course curriculum of Solid State Chemistry as outstanding
- 22% of the students have rated course curriculum of Solid State Chemistry as good
- 3% of the students have rated course curriculum of Solid State Chemistry as average

Course Curriculum Feedback: Photochemistry, Free Radicals and Pericyclic Reactions

- 64% of the students have rated course curriculum of Photochemistry, Free Radicals and Pericyclic Reactions as Excellent
- 17% of the students have rated course curriculum of Photochemistry, Free Radicals and Pericyclic Reactions as outstanding
- 19% of the students have rated course curriculum of Photochemistry, Free Radicals and Pericyclic Reactions as good
- 0% of the students have rated course curriculum of Photochemistry, Free Radicals and Pericyclic Reactions as average

Course Curriculum Feedback: Thermodynamics

- 25% of the students have rated course curriculum of Thermodynamics as Excellent
- 23% of the students have rated course curriculum of Thermodynamics as outstanding
- 42% of the students have rated course curriculum of Thermodynamics as good
- 10% of the students have rated course curriculum of Thermodynamics as average

Course Curriculum Feedback: Advanced Electrochemistry

- 34% of the students have rated course curriculum of Advanced Electrochemistry as Excellent
- 53% of the students have rated course curriculum of Advanced Electrochemistry as outstanding



- 11% of the students have rated course curriculum of Advanced Electrochemistry as good
- 1% of the students have rated course curriculum of Advanced Electrochemistry as average

Course Curriculum Feedback: Electroanalytical Techniques

- 15% of the students have rated course curriculum of Electroanalytical Techniques as Excellent
- 80% of the students have rated course curriculum of Electroanalytical Techniques as outstanding
- 5% of the students have rated course curriculum of Electroanalytical Techniques as good
- 0% of the students have rated course curriculum of Electroanalytical Techniques as average

Course Curriculum Feedback: Advanced Analytical Techniques-I

- 87% of the students have rated course curriculum of Advanced Analytical Techniques-I as Excellent
- 8% of the students have rated course curriculum of Advanced Analytical Techniques-I as outstanding
- 5% of the students have rated course curriculum of Advanced Analytical Techniques-I as good
- 0% of the students have rated course curriculum of Advanced Analytical Techniques-I as average

Course Curriculum Feedback: Quality Assurance & Accreditation

- 22% of the students have rated course curriculum of Quality Assurance & Accreditation as Excellent
- 70% of the students have rated course curriculum of Quality Assurance & Accreditation as outstanding
- 7% of the students have rated course curriculum of Quality Assurance & Accreditation as good
- 0% of the students have rated course curriculum of Quality Assurance & Accreditation as average

Course Curriculum Feedback: Organic Synthesis

- 45% of the students have rated course curriculum of Organic Synthesis as Excellent
- 39% of the students have rated course curriculum of Organic Synthesis as outstanding
- 15% of the students have rated course curriculum of Organic Synthesis as good
- 1% of the students have rated course curriculum of Organic Synthesis 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	BioInorganic and Supramolecular Chemistry	Advanced Organic Chemistry	Structural Elucidation by Spectral Methods	Solid State Chemistry	Photochemistry, Free Radicals and Pericyclic Reactions	Thermodynamics	Advanced Electrochemistry	Electroanalytical Techniques	Advanced Analytical Techniques-I	Quality Assurance & Accreditation	Organic Synthesis
A	6	3	74	0	1	15	0	0	0	0	1
G	24	123	242	30	53	61	12	12	12	14	43
E	68	211	320	75	188	41	28	48	12	51	117
O	27	239	156	51	46	37	104	180	216	163	103
Total	125	576	792	156	288	154	144	240	240	228	264

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

Grade	BioInorganic and Supramolecular Chemistry	Advanced Organic Chemistry	Structural Elucidation by Spectral Methods	Solid State Chemistry	Photochemistry, Free Radicals and Pericyclic Reactions	Thermodynamics	Advanced Electrochemistry	Electroanalytical Techniques	Advanced Analytical Techniques-I	Quality Assurance & Accreditation	Organic Synthesis
A	5	1	9	0	0	10	0	0	0	0	0
G	19	21	31	19	18	40	8	5	5	6	16
E	54	37	40	48	65	27	19	20	5	22	44
O	22	41	20	33	16	24	72	75	90	71	39
Total	100	100	100	100	100	100	100	100	100	100	100



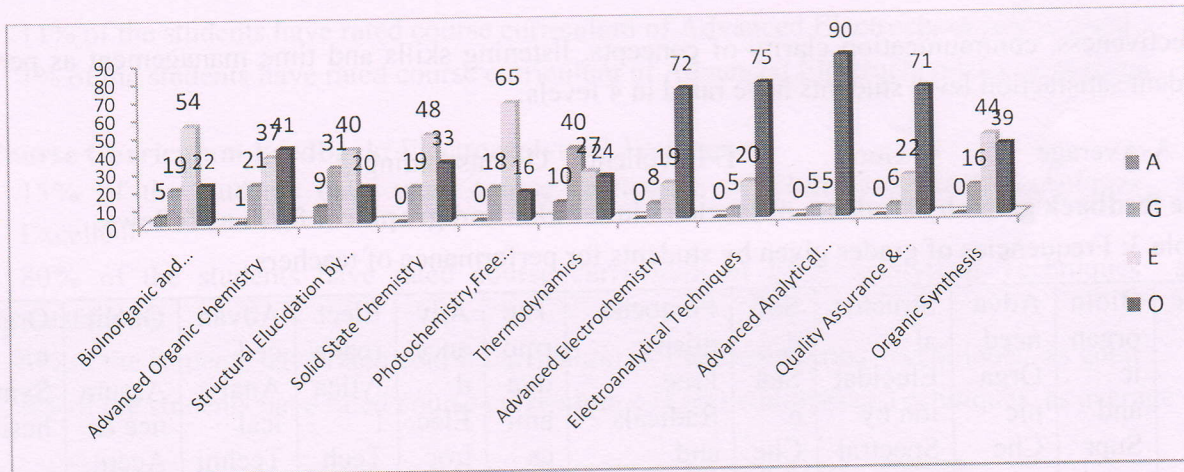


Fig. 2 : Graphical representation of grades given to teachers by students

Teacher feedback: BioInorganic and Supramolecular Chemistry

- 54% of the students have rated Teacher of Bio-inorganic and Supramolecular Chemistry as Excellent
- 22% of the students have rated Teacher of Bio-inorganic and Supramolecular Chemistry as outstanding
- 19% of the students have rated Teacher of Bio-inorganic and Supramolecular Chemistry as good
- 5% of the students have rated Teacher of Bio-inorganic and Supramolecular Chemistry as average

Teacher feedback: Advanced Organic Chemistry

- 41% of the students have rated Teacher of Advanced Organic Chemistry as Excellent
- 37% of the students have rated Teacher of Advanced Organic Chemistry as outstanding
- 21% of the students have rated Teacher of Advanced Organic Chemistry as good
- 1% of the students have rated Teacher of Advanced Organic Chemistry as average

Teacher feedback: Structural Elucidation by Spectral Methods

- 40% of the students have rated Teacher of Structural Elucidation by Spectral Methods as Excellent
- 20% of the students have rated Teacher of Structural Elucidation by Spectral Methods as outstanding
- 31% of the students have rated Teacher of Structural Elucidation by Spectral Methods as good
- 9% of the students have rated Teacher of Structural Elucidation by Spectral Methods as average

Teacher feedback: Solid State Chemistry

- 48% of the students have rated Teacher of Solid State Chemistry as Excellent

- 33% of the students have rated Teacher of Solid State Chemistry as outstanding
- 19% of the students have rated Teacher of Solid State Chemistry as good
- 0% of the students have rated Teacher of Solid State Chemistry as average

Teacher feedback: Photochemistry, Free Radicals and Pericyclic Reactions

- 65% of the students have rated Teacher of Photochemistry, Free Radicals and Pericyclic Reactions as Excellent
- 16% of the students have rated Teacher of Photochemistry, Free Radicals and Pericyclic Reactions as outstanding
- 18% of the students have rated Teacher of Photochemistry, Free Radicals and Pericyclic Reactions as good
- 0% of the students have rated Teacher of Photochemistry, Free Radicals and Pericyclic Reactions as average

Teacher feedback: Thermodynamics

- 27% of the students have rated Teacher of Thermodynamics as Excellent
- 24% of the students have rated Teacher of Thermodynamics as outstanding
- 40% of the students have rated Teacher of Thermodynamics as good
- 10% of the students have rated Teacher of Thermodynamics as average

Teacher feedback: Advanced Electrochemistry

- 19% of the students have rated Teacher of Advanced Electrochemistry as Excellent
- 72% of the students have rated Teacher of Advanced Electrochemistry as outstanding
- 8% of the students have rated Teacher of Advanced Electrochemistry as good
- 0% of the students have rated Teacher of Advanced Electrochemistry as average

Teacher feedback: Electroanalytical Techniques

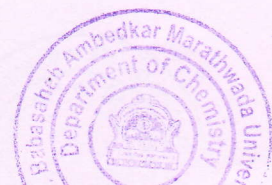
- 20% of the students have rated Teacher of Electroanalytical Techniques as Excellent
- 75% of the students have rated Teacher of Electroanalytical Techniques as outstanding
- 5% of the students have rated Teacher of Electroanalytical Techniques as good
- 0% of the students have rated Teacher of Electroanalytical Techniques as average

Teacher feedback: Advanced Analytical Techniques-I

- 90% of the students have rated Teacher of Advanced Analytical Techniques-I as Excellent
- 5% of the students have rated Teacher of Advanced Analytical Techniques-I as outstanding
- 5% of the students have rated Teacher of Advanced Analytical Techniques-I as good
- 0% of the students have rated Teacher of Advanced Analytical Techniques-I as average

Teacher feedback: Quality Assurance & Accreditation

- 22% of the students have rated Teacher of Quality Assurance & Accreditation as Excellent
- 71% of the students have rated Teacher of Quality Assurance & Accreditation as outstanding
- 6% of the students have rated Teacher of Quality Assurance & Accreditation as good
- 0% of the students have rated Teacher of Quality Assurance & Accreditation as average



Teacher feedback:Organic Synthesis

- 44% of the students have rated Teacher of Organic Synthesis as Excellent
- 39% of the students have rated Teacher of Organic Synthesis as outstanding
- 16% of the students have rated Teacher of Organic Synthesis as good
- 0% of the students have rated Teacher of Organic Synthesis 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:

- Project / Seminar topics are new and interesting
- Learnt a lot from doing the project / Seminar? Home Assignment
- The assignment was regularly given and checked
- 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	BioInorganic and Supramolecular Chemistry	Advanced Organic Chemistry	Structural Elucidation by Spectral Methods	Solid State Chemistry	Photochemistry, Free Radicals and Pericyclic Reactions	Thermodynamics	Advanced Electrochemistry	Electroanalytical Techniques	Advanced Analytical Techniques-I	Quality Assurance & Accreditation	Organic Synthesis
A	3	0	16	1	0	2	0	0	0	0	1
G	5	37	77	14	17	23	7	4	4	4	18
E	18	72	112	28	63	14	13	14	6	19	36
O	17	83	59	9	16	13	28	62	70	53	33
Total	43	192	264	52	96	52	48	80	80	76	88



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

Grade	BioInorganic and Supramolecular Chemistry	Advanced Organic Chemistry	Structural Elucidation by Spectral Methods	Solid State Chemistry	Photochemistry, Free Radicals and Pericyclic Reactions	Thermodynamics	Advanced Electrochemistry	Electroanalytical Techniques	Advanced Analytical Techniques-I	Quality Assurance & Accreditation	Organic Synthesis
A	7	0	6	2	0	4	0	0	0	0	1
G	12	19	29	27	18	44	15	5	5	5	20
E	42	38	42	54	66	27	27	18	8	25	41
O	40	43	22	17	17	25	58	78	88	70	38
Total	100	100	100	100	100	100	100	100	100	100	100

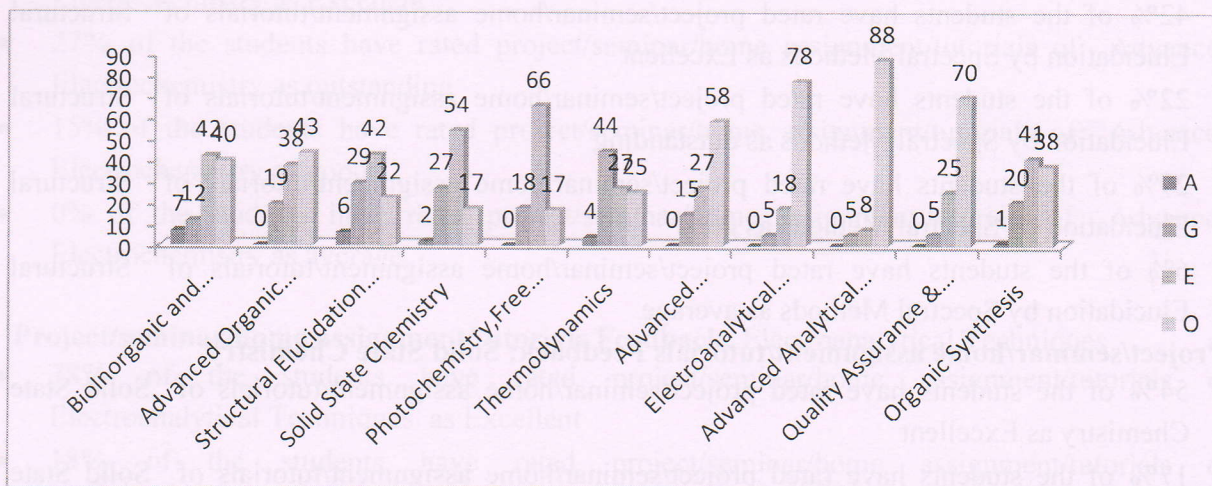


Fig. 3: Graphical representation of grades given by students for project/seminar/assignments

Project/seminar/home assignment/tutorials Feedback: BioInorganic and Supramolecular Chemistry

- 42% of the students have rated project/seminar/home assignment/tutorials of BioInorganic and Supramolecular Chemistry as Excellent

- 40% of the students have rated project/seminar/home assignment/tutorials of BioInorganic and Supramolecular Chemistry as outstanding
- 12% of the students have rated project/seminar/home assignment/tutorials of BioInorganic and Supramolecular Chemistry as good
- 7% of the students have rated project/seminar/home assignment/tutorials of BioInorganic and Supramolecular Chemistry as average

Project/seminar/home assignment/tutorials Feedback: Advanced Organic Chemistry

- 38% of the students have rated project/seminar/home assignment/tutorials of Advanced Organic Chemistry as Excellent
- 43% of the students have rated project/seminar/home assignment/tutorials of Advanced Organic Chemistry as outstanding
- 19% of the students have rated project/seminar/home assignment/tutorials of Advanced Organic Chemistry as good
- 0% of the students have rated project/seminar/home assignment/tutorials of Advanced Organic Chemistry as average

Project/seminar/home assignment/tutorials Feedback: Structural Elucidation by Spectral Methods

- 42% of the students have rated project/seminar/home assignment/tutorials of Structural Elucidation by Spectral Methods as Excellent
- 22% of the students have rated project/seminar/home assignment/tutorials of Structural Elucidation by Spectral Methods as outstanding
- 29% of the students have rated project/seminar/home assignment/tutorials of Structural Elucidation by Spectral Methods as good
- 6% of the students have rated project/seminar/home assignment/tutorials of Structural Elucidation by Spectral Methods as average

Project/seminar/home assignment/tutorials Feedback: Solid State Chemistry

- 54% of the students have rated project/seminar/home assignment/tutorials of Solid State Chemistry as Excellent
- 17% of the students have rated project/seminar/home assignment/tutorials of Solid State Chemistry as outstanding
- 27% of the students have rated project/seminar/home assignment/tutorials of Solid State Chemistry as good
- 2% of the students have rated project/seminar/home assignment/tutorials of Solid State Chemistry as average

Project/seminar/home assignment/tutorials Feedback: Photochemistry, Free Radicals and Pericyclic Reactions

- 66% of the students have rated project/seminar/home assignment/tutorials of Photochemistry, Free Radicals and Pericyclic Reactions as Excellent



- 17% of the students have rated project/seminar/home assignment/tutorials of Photochemistry, Free Radicals and Pericyclic Reactions as outstanding
- 18% of the students have rated project/seminar/home assignment/tutorials of Photochemistry, Free Radicals and Pericyclic Reactions as good
- 0% of the students have rated project/seminar/home assignment/tutorials of Photochemistry, Free Radicals and Pericyclic Reactions as average

Project/seminar/home assignment/tutorials Feedback: Thermodynamics

- 27% of the students have rated project/seminar/home assignment/tutorials of Thermodynamics as Excellent
- 25% of the students have rated project/seminar/home assignment/tutorials of Thermodynamics as outstanding
- 44% of the students have rated project/seminar/home assignment/tutorials of Thermodynamics as good
- 4% of the students have rated project/seminar/home assignment/tutorials of Thermodynamics as average

Project/seminar/home assignment/tutorials Feedback: Advanced Electrochemistry

- 58% of the students have rated project/seminar/home assignment/tutorials of Advanced Electrochemistry as Excellent
- 27% of the students have rated project/seminar/home assignment/tutorials of Advanced Electrochemistry as outstanding
- 15% of the students have rated project/seminar/home assignment/tutorials of Advanced Electrochemistry as good
- 0% of the students have rated project/seminar/home assignment/tutorials of Advanced Electrochemistry as average

Project/seminar/home assignment/tutorials Feedback: Electroanalytical Techniques

- 78% of the students have rated project/seminar/home assignment/tutorials of Electroanalytical Techniques as Excellent
- 18% of the students have rated project/seminar/home assignment/tutorials of Electroanalytical Techniques as outstanding
- 5% of the students have rated project/seminar/home assignment/tutorials of Electroanalytical Techniques as good
- 0% of the students have rated project/seminar/home assignment/tutorials of Electroanalytical Techniques as average

Project/seminar/home assignment/tutorials Feedback: Advanced Analytical Techniques-I

- 8% of the students have rated project/seminar/home assignment/tutorials of Advanced Analytical Techniques-I as Excellent



- 88% of the students have rated project/seminar/home assignment/tutorials of Advanced Analytical Techniques-I as outstanding
- 5% of the students have rated project/seminar/home assignment/tutorials of Advanced Analytical Techniques-I as good
- 0% of the students have rated project/seminar/home assignment/tutorials of Advanced Analytical Techniques-I as average

Project/seminar/home assignment/tutorials Feedback: Quality Assurance & Accreditation

- 25% of the students have rated project/seminar/home assignment/tutorials of Quality Assurance & Accreditation as Excellent
- 70% of the students have rated project/seminar/home assignment/tutorials of Quality Assurance & Accreditation as outstanding
- 5% of the students have rated project/seminar/home assignment/tutorials of Quality Assurance & Accreditation as good
- 0% of the students have rated project/seminar/home assignment/tutorials of Quality Assurance & Accreditation as average

Project/seminar/home assignment/tutorials Feedback: Organic Synthesis

- 41% of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis as Excellent
- 38% of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis as outstanding
- 20% of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis as good
- 1% of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis as average

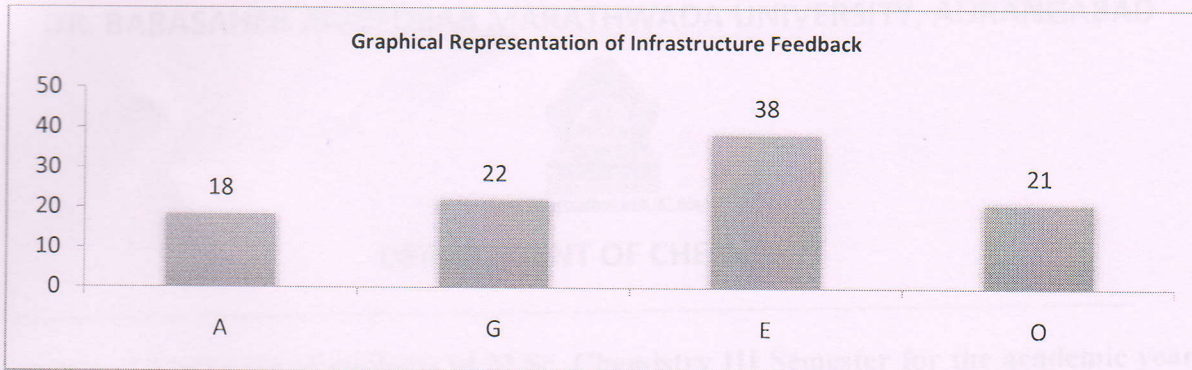
Criterion 5: Infrastructure

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



[Handwritten Signature]

**Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.**

The students graded the about course curriculum as follows:

Table 7: Frequencies of grades given by students for course curriculum

Grade	Frequency	Percentage	Frequency	Percentage	Frequency	Percentage	Frequency	Percentage	Frequency	Percentage
A	18	18%	22	22%	38	38%	21	21%		
G										
E										
O										
Total	81		104		101		100		150	100%

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD



NAAC Re-accredited with 'A' Grade

DEPARTMENT OF CHEMISTRY

Analysis of feedbacks of students of Semester- IV, 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

- The course objectives and outcomes were clearly defined/identified
- Length: Course material were of appropriate length
- Relevance: Course material were relevant
- Quality: Course material were of high quality and up to date
- Organization: Material was well organized
- The course provides useful inputs
- The course provides focus on skill development/ employability/ entrepreneurship
- The course updates understanding in this field as per their satisfaction in 4 levels:

A- Average ,

G- Good

E- Excellent

O- 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

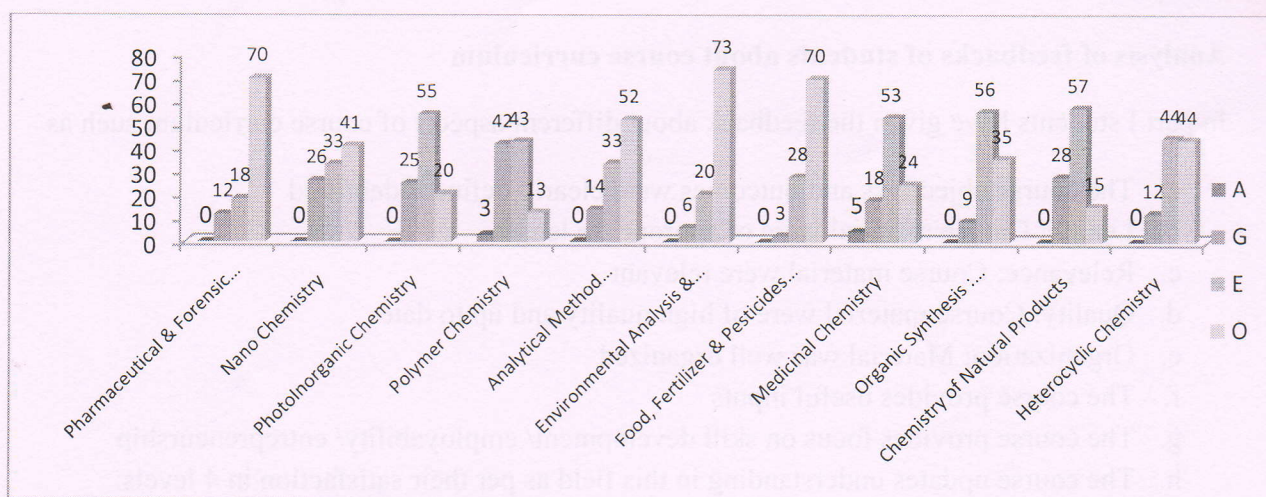


Fig. 1: Graphical representation of grades given to course curriculum by students

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 & Monitoring as Excellent
- 73% of the students have rated course curriculum of Environmental Analysis & Monitoring as outstanding
- 6% of the students have rated course curriculum of Environmental Analysis & Monitoring as good
- 0% of the students have rated course curriculum of Environmental Analysis & Monitoring as 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 Approaches as a good
- 0% of the students have rated course curriculum of Organic Synthesis : Retrosynthetic Approaches as a average

Course Curriculum Feedback: Chemistry of Natural Products

- 48% of the students have rated course curriculum of Chemistry of Natural Products as Excellent
- 39% of the students have rated course curriculum of Chemistry of Natural Products as outstanding
- 12% of the students have rated course curriculum of Chemistry of Natural Products as good
- 1% of the students have rated course curriculum of Chemistry of Natural Products as 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



- 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 & Monitoring as Excellent
- 72% of the students have rated Teacher of Environmental Analysis & Monitoring as outstanding
- 6% of the students have rated Teacher of Environmental Analysis & Monitoring as good
- 0% of the students have rated Teacher of Environmental Analysis & Monitoring as 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 Approach as good
- 0% of the students have rated Teacher of Organic Synthesis : Retrosynthetic Approach as average

Teacher feedback: Chemistry of Natural Products

- 54% of the students have rated Teacher of Chemistry of Natural Products as Excellent
- 19% of the students have rated Teacher of Chemistry of Natural Products as outstanding
- 27% of the students have rated Teacher of Chemistry of Natural Products as good
- 0% of the students have rated Teacher of Chemistry of Natural Products as 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:

- a. Project / Seminar topics are new and interesting
- b. Learnt a lot from doing the project / Seminar? Home Assignment
- c. The assignment was regularly given and checked



d. 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

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



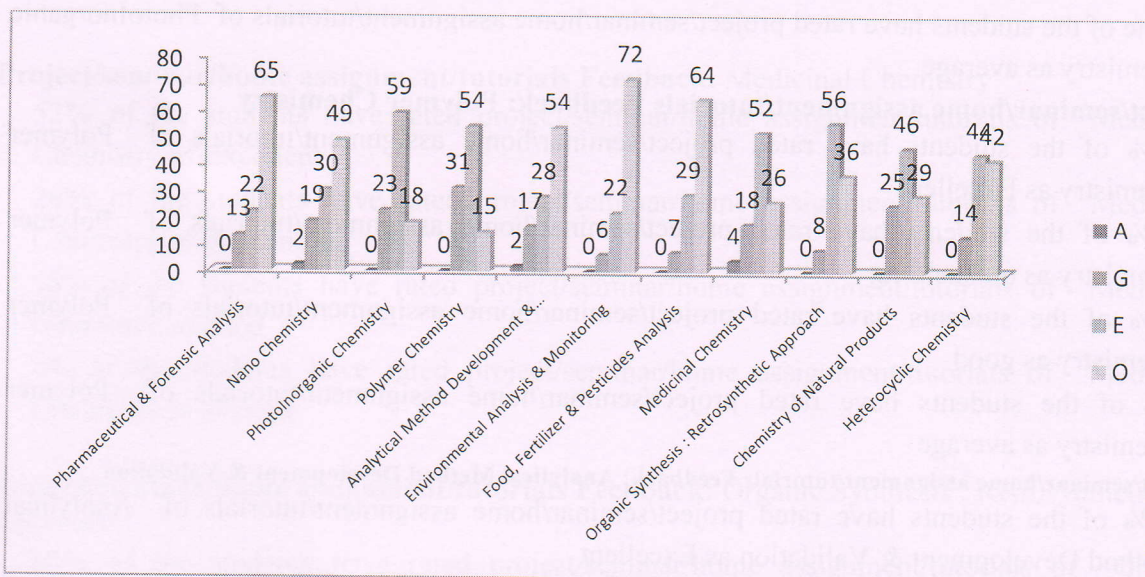


Fig. 3: Graphical representation of grades given by students for project/seminar/assignments

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

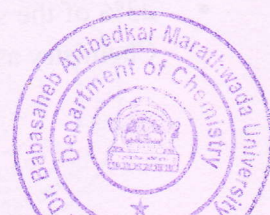
- 28% of the students have rated project/seminar/home assignment/tutorials of Analytical Method Development & Validation as Excellent
- 54% of the students have rated project/seminar/home assignment/tutorials of Analytical Method Development & Validation as outstanding
- 17% of the students have rated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



- 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 Approach as good
- 0% of the students have rated project/seminar/home assignment/tutorials of Organic Synthesis : Retrosynthetic Approach as 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 Products as Excellent
- 29% of the students have rated project/seminar/home assignment/tutorials of Chemistry of Natural Products as outstanding
- 25% of the students have rated project/seminar/home assignment/tutorials of Chemistry of Natural Products as good
- 0% of the students have rated project/seminar/home assignment/tutorials of Chemistry of Natural Products as 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:

- I enjoyed the seminar, project, tutorials, home assignments.
- I would recommend the course to others
- 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

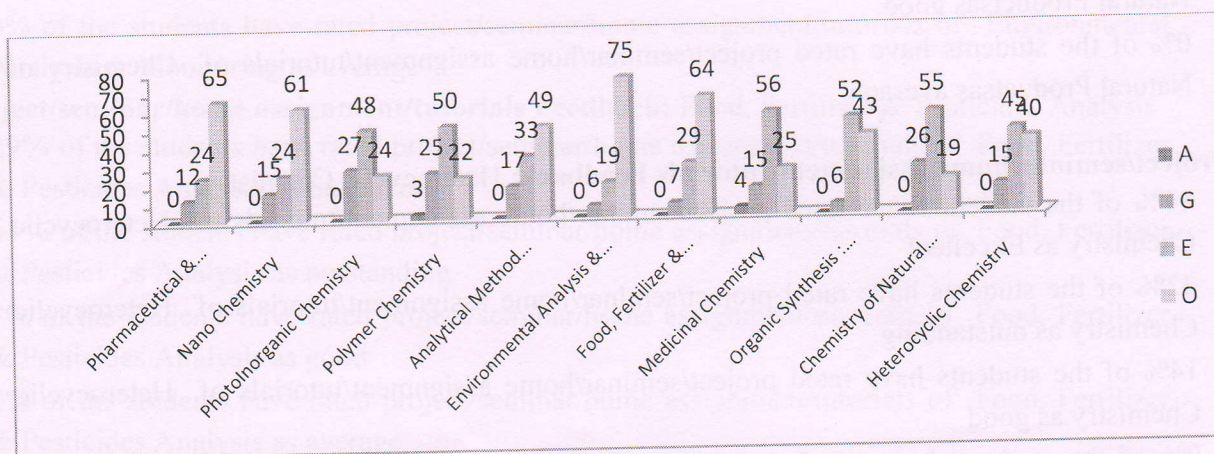


Fig. 3: Graphical representation of grades given by students for project/seminar/assignments

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

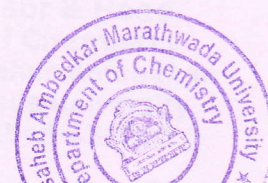
Overall Feedback: Polymer Chemistry

- 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

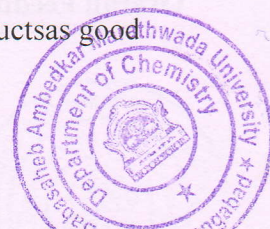
- 56% of the students have rated Over all Feedback of Medicinal Chemistry as Excellent
- 25% of the students have rated Over all Feedback of Medicinal Chemistry as outstanding
- 15% of the students have rated Over all Feedback of Medicinal Chemistry as good
- 4% of the students have rated Over all Feedback 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 Products as Excellent
- 19% of the students have rated Over all Feedback of Chemistry of Natural Products as outstanding
- 26% of the students have rated Over all Feedback of Chemistry of Natural Products as good



- 0% of the students have rated Over all Feedback of Chemistry of Natural Products as average

Overall Feedback: Heterocyclic Chemistry

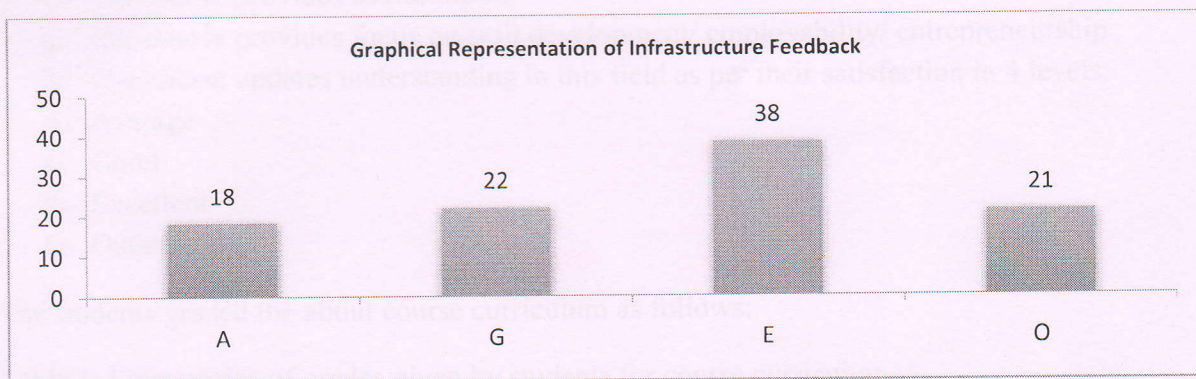
- 45% of the students have rated Over all Feedback of Heterocyclic Chemistry as Excellent
- 40% of the students have rated Over all Feedback of Heterocyclic Chemistry as outstanding
- 15% of the students have rated Over all Feedback of Heterocyclic Chemistry as good
- 0% of the students have rated Over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

Criterion 5: Infrastructure

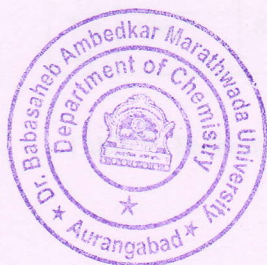
The feedback of students about infrastructure is presented in tabular and graphical form as follows:


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




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