

CURRICULUM FEEDBACK ANALYSIS REPORT

Session (2022-23)

Bachelor of Science (Hons) in Physics



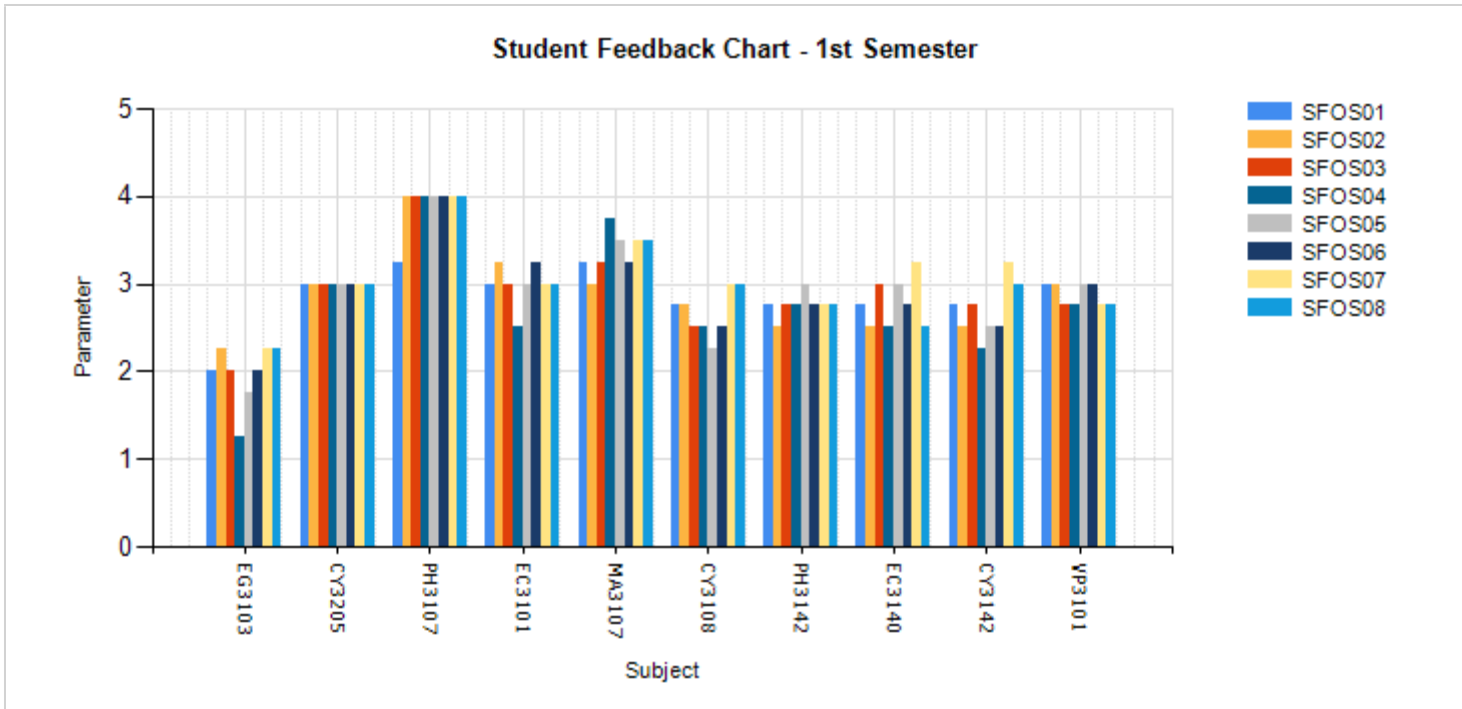
DEPARTMENT OF SCIENCES
Faculty of Graduate Studies
Quantum University

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Quantum University

Data Representation of Feedback Feedback on Curriculum (Students)

1st Semester 2022-23
No of Students: 4

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| EG3103 | 2.00 | 2.25 | 2.00 | 1.25 | 1.75 | 2.00 | 2.25 | 2.25 | 1.97 |
| CY3205 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| PH3107 | 3.25 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.91 |
| EC3101 | 3.00 | 3.25 | 3.00 | 2.50 | 3.00 | 3.25 | 3.00 | 3.00 | 3.00 |
| MA3107 | 3.25 | 3.00 | 3.25 | 3.75 | 3.50 | 3.25 | 3.50 | 3.50 | 3.38 |
| CY3108 | 2.75 | 2.75 | 2.50 | 2.50 | 2.25 | 2.50 | 3.00 | 3.00 | 2.66 |
| PH3142 | 2.75 | 2.50 | 2.75 | 2.75 | 3.00 | 2.75 | 2.75 | 2.75 | 2.75 |
| EC3140 | 2.75 | 2.50 | 3.00 | 2.50 | 3.00 | 2.75 | 3.25 | 2.50 | 2.78 |
| CY3142 | 2.75 | 2.50 | 2.75 | 2.25 | 2.50 | 2.50 | 3.25 | 3.00 | 2.69 |
| VP3101 | 3.00 | 3.00 | 2.75 | 2.75 | 3.00 | 3.00 | 2.75 | 2.75 | 2.88 |
| Total Avg. :- | 2.85 | 2.88 | 2.90 | 2.72 | 2.90 | 2.90 | 3.08 | 2.98 | 2.90 |

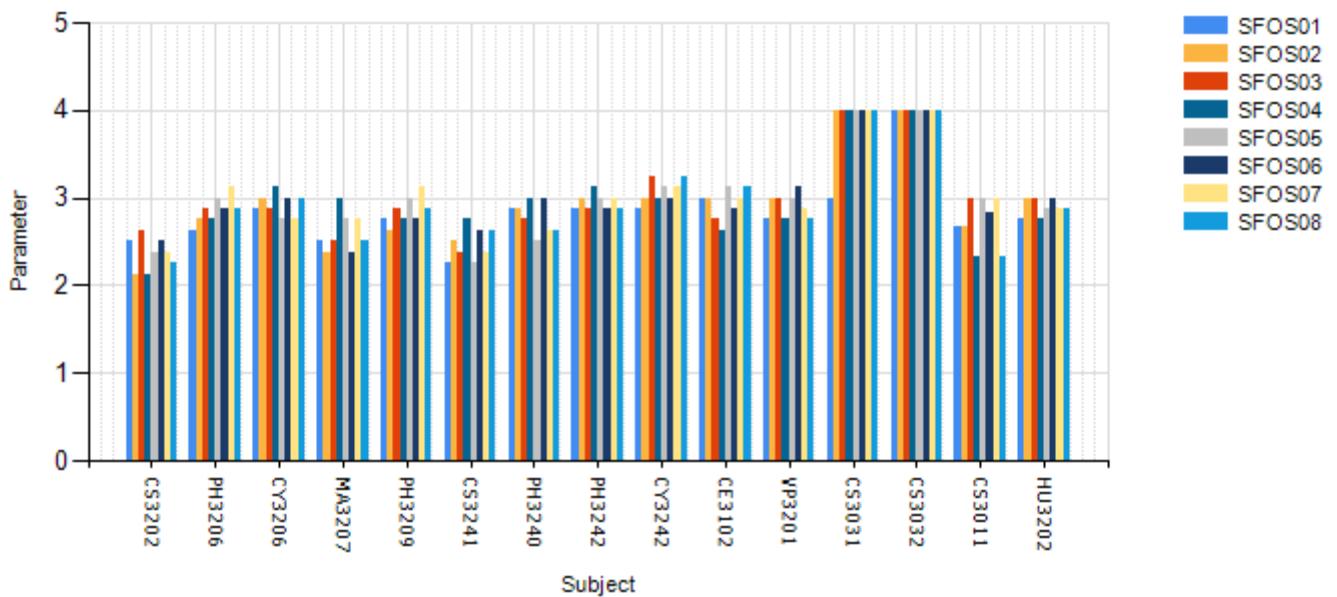



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2nd Semester 2022-23
No of Students: 4

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| CS3202 | 2.50 | 2.13 | 2.63 | 2.13 | 2.38 | 2.50 | 2.38 | 2.25 | 2.36 |
| PH3206 | 2.63 | 2.75 | 2.88 | 2.75 | 3.00 | 2.88 | 3.13 | 2.88 | 2.86 |
| CY3206 | 2.88 | 3.00 | 2.88 | 3.13 | 2.75 | 3.00 | 2.75 | 3.00 | 2.92 |
| MA3207 | 2.50 | 2.38 | 2.50 | 3.00 | 2.75 | 2.38 | 2.75 | 2.50 | 2.59 |
| PH3209 | 2.75 | 2.63 | 2.88 | 2.75 | 3.00 | 2.75 | 3.13 | 2.88 | 2.84 |
| CS3241 | 2.25 | 2.50 | 2.38 | 2.75 | 2.25 | 2.63 | 2.38 | 2.63 | 2.47 |
| PH3240 | 2.88 | 2.88 | 2.75 | 3.00 | 2.50 | 3.00 | 2.63 | 2.63 | 2.78 |
| PH3242 | 2.88 | 3.00 | 2.88 | 3.13 | 3.00 | 2.88 | 3.00 | 2.88 | 2.95 |
| CY3242 | 2.88 | 3.00 | 3.25 | 3.00 | 3.13 | 3.00 | 3.13 | 3.25 | 3.08 |
| CE3102 | 3.00 | 3.00 | 2.75 | 2.63 | 3.13 | 2.88 | 3.00 | 3.13 | 2.94 |
| VP3201 | 2.75 | 3.00 | 3.00 | 2.75 | 3.00 | 3.13 | 2.88 | 2.75 | 2.91 |
| CS3031 | 3.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 3.88 |
| CS3032 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| CS3011 | 2.67 | 2.67 | 3.00 | 2.33 | 3.00 | 2.83 | 3.00 | 2.33 | 2.73 |
| HU3202 | 2.75 | 3.00 | 3.00 | 2.75 | 2.88 | 3.00 | 2.88 | 2.88 | 2.89 |
| Total Avg. :- | 2.82 | 2.93 | 2.99 | 2.94 | 2.98 | 2.99 | 3.00 | 2.93 | 2.95 |

Student Feedback Chart - 2nd Semester

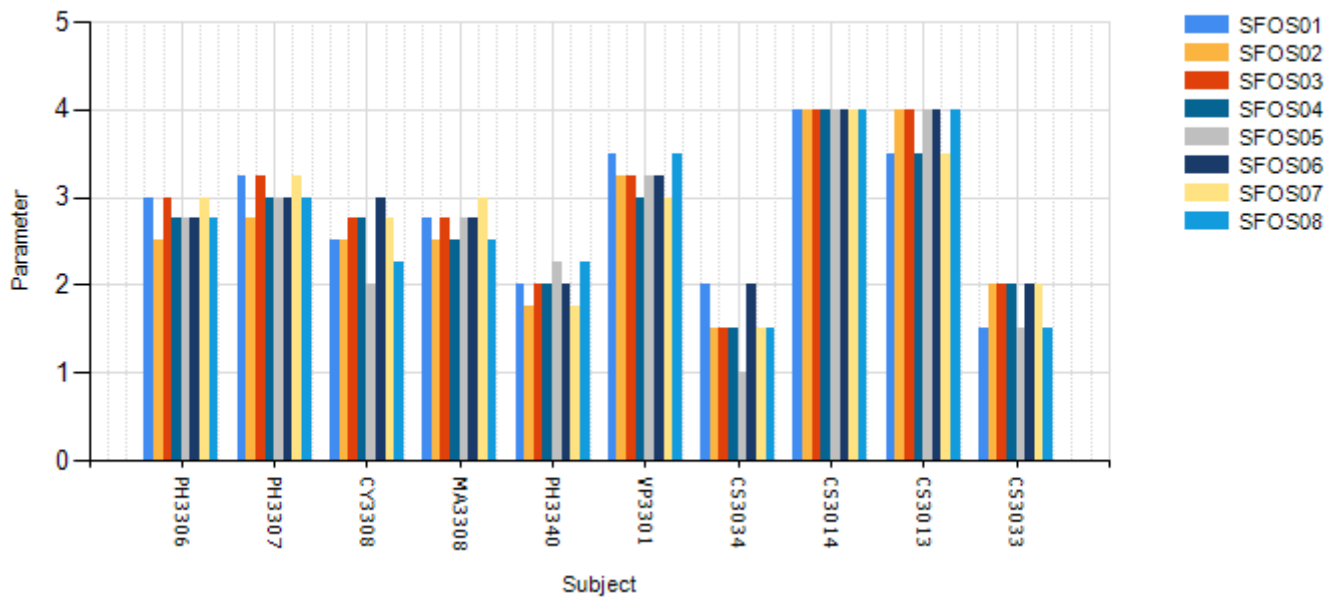



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3rd Semester 2022-23
No of Students: 4

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| PH3306 | 3.00 | 2.50 | 3.00 | 2.75 | 2.75 | 2.75 | 3.00 | 2.75 | 2.81 |
| PH3307 | 3.25 | 2.75 | 3.25 | 3.00 | 3.00 | 3.00 | 3.25 | 3.00 | 3.06 |
| CY3308 | 2.50 | 2.50 | 2.75 | 2.75 | 2.00 | 3.00 | 2.75 | 2.25 | 2.56 |
| MA3308 | 2.75 | 2.50 | 2.75 | 2.50 | 2.75 | 2.75 | 3.00 | 2.50 | 2.69 |
| PH3340 | 2.00 | 1.75 | 2.00 | 2.00 | 2.25 | 2.00 | 1.75 | 2.25 | 2.00 |
| VP3301 | 3.50 | 3.25 | 3.25 | 3.00 | 3.25 | 3.25 | 3.00 | 3.50 | 3.25 |
| CS3034 | 2.00 | 1.50 | 1.50 | 1.50 | 1.00 | 2.00 | 1.50 | 1.50 | 1.56 |
| CS3014 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| CS3013 | 3.50 | 4.00 | 4.00 | 3.50 | 4.00 | 4.00 | 3.50 | 4.00 | 3.81 |
| CS3033 | 1.50 | 2.00 | 2.00 | 2.00 | 1.50 | 2.00 | 2.00 | 1.50 | 1.81 |
| Total Avg. :- | 2.80 | 2.68 | 2.85 | 2.70 | 2.65 | 2.88 | 2.78 | 2.72 | 2.76 |

Student Feedback Chart - 3rd Semester



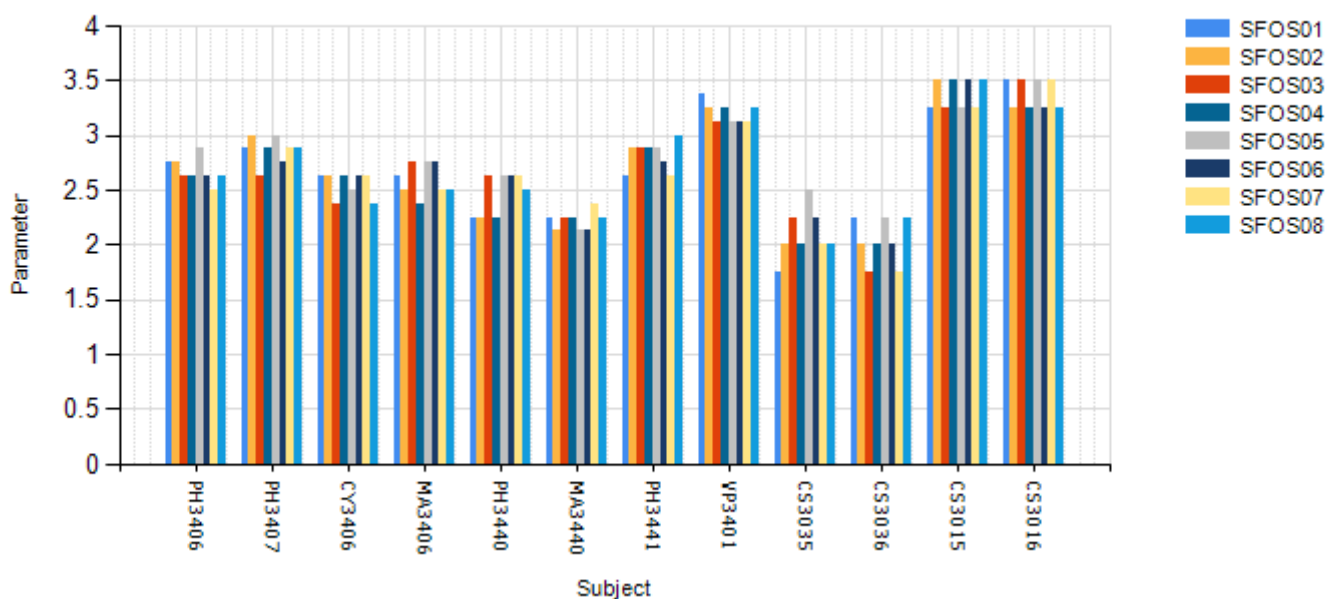

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4th Semester 2022-23

No of Students: 4

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| PH3406 | 2.75 | 2.75 | 2.63 | 2.63 | 2.88 | 2.63 | 2.50 | 2.63 | 2.67 |
| PH3407 | 2.88 | 3.00 | 2.63 | 2.88 | 3.00 | 2.75 | 2.88 | 2.88 | 2.86 |
| CY3406 | 2.63 | 2.63 | 2.38 | 2.63 | 2.50 | 2.63 | 2.63 | 2.38 | 2.55 |
| MA3406 | 2.63 | 2.50 | 2.75 | 2.38 | 2.75 | 2.75 | 2.50 | 2.50 | 2.59 |
| PH3440 | 2.25 | 2.25 | 2.63 | 2.25 | 2.63 | 2.63 | 2.63 | 2.50 | 2.47 |
| MA3440 | 2.25 | 2.13 | 2.25 | 2.25 | 2.13 | 2.13 | 2.38 | 2.25 | 2.22 |
| PH3441 | 2.63 | 2.88 | 2.88 | 2.88 | 2.88 | 2.75 | 2.63 | 3.00 | 2.81 |
| VP3401 | 3.38 | 3.25 | 3.13 | 3.25 | 3.13 | 3.13 | 3.13 | 3.25 | 3.20 |
| CS3035 | 1.75 | 2.00 | 2.25 | 2.00 | 2.50 | 2.25 | 2.00 | 2.00 | 2.09 |
| CS3036 | 2.25 | 2.00 | 1.75 | 2.00 | 2.25 | 2.00 | 1.75 | 2.25 | 2.03 |
| CS3015 | 3.25 | 3.50 | 3.25 | 3.50 | 3.25 | 3.50 | 3.25 | 3.50 | 3.38 |
| CS3016 | 3.50 | 3.25 | 3.50 | 3.25 | 3.50 | 3.25 | 3.50 | 3.25 | 3.38 |
| Total Avg. :- | 2.68 | 2.68 | 2.67 | 2.66 | 2.78 | 2.70 | 2.65 | 2.70 | 2.69 |

Student Feedback Chart - 4th Semester



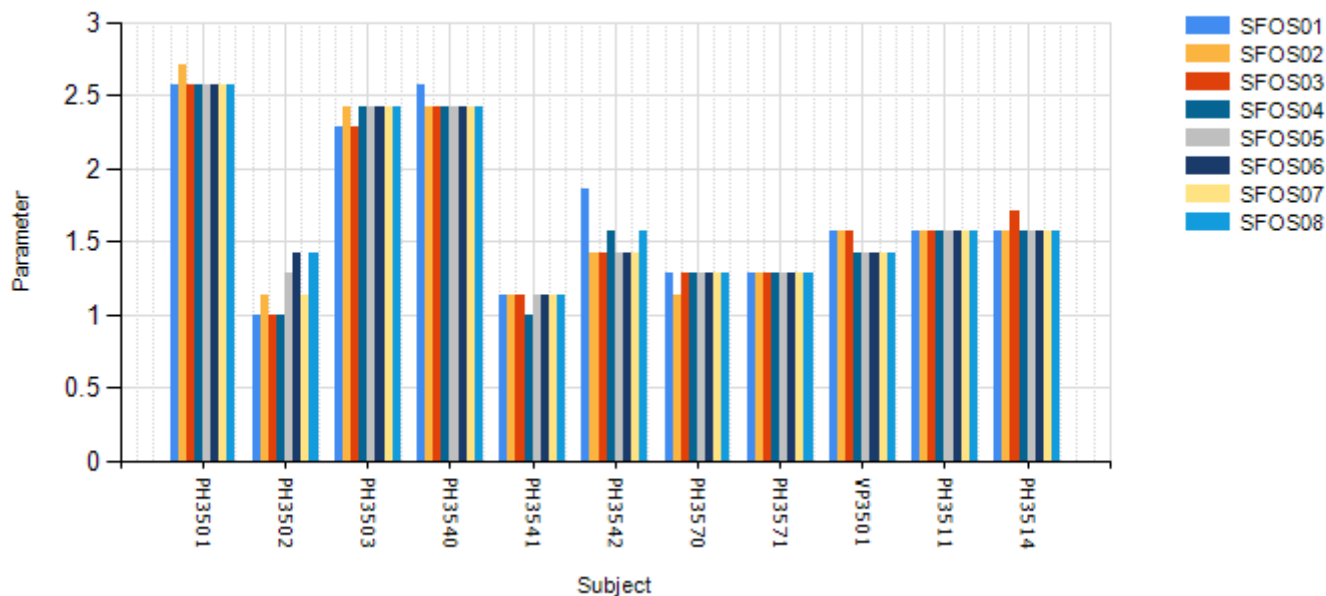

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5th Semester 2022-23

No of Students: 7

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| PH3501 | 2.57 | 2.71 | 2.57 | 2.57 | 2.57 | 2.57 | 2.57 | 2.57 | 2.59 |
| PH3502 | 1.00 | 1.14 | 1.00 | 1.00 | 1.29 | 1.43 | 1.14 | 1.43 | 1.18 |
| PH3503 | 2.29 | 2.43 | 2.29 | 2.43 | 2.43 | 2.43 | 2.43 | 2.43 | 2.39 |
| PH3540 | 2.57 | 2.43 | 2.43 | 2.43 | 2.43 | 2.43 | 2.43 | 2.43 | 2.45 |
| PH3541 | 1.14 | 1.14 | 1.14 | 1.00 | 1.14 | 1.14 | 1.14 | 1.14 | 1.13 |
| PH3542 | 1.86 | 1.43 | 1.43 | 1.57 | 1.43 | 1.43 | 1.43 | 1.43 | 1.52 |
| PH3570 | 1.29 | 1.14 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.27 |
| PH3571 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 |
| VP3501 | 1.57 | 1.57 | 1.57 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.48 |
| PH3511 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 |
| PH3514 | 1.57 | 1.57 | 1.71 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | 1.59 |
| Total Avg. :- | 1.70 | 1.67 | 1.66 | 1.65 | 1.68 | 1.69 | 1.66 | 1.70 | 1.68 |

Student Feedback Chart - 5th Semester

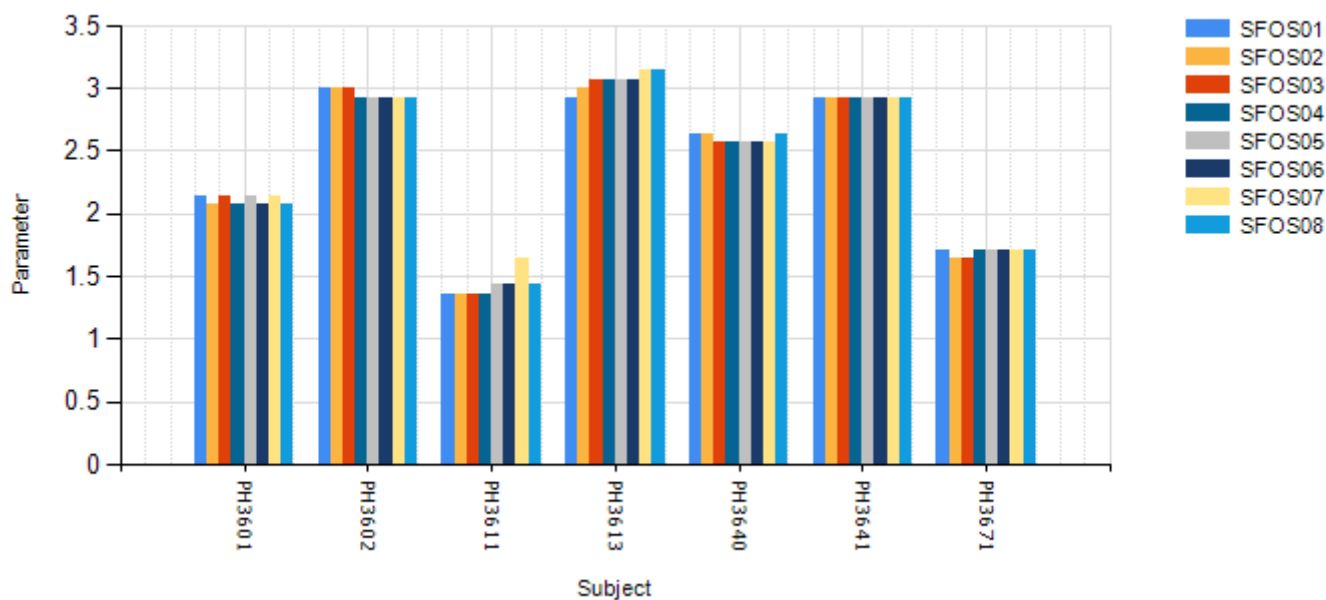



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6th Semester 2022-23
No of Students: 7

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| PH3601 | 2.14 | 2.07 | 2.14 | 2.07 | 2.14 | 2.07 | 2.14 | 2.07 | 2.11 |
| PH3602 | 3.00 | 3.00 | 3.00 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.96 |
| PH3611 | 1.36 | 1.36 | 1.36 | 1.36 | 1.43 | 1.43 | 1.64 | 1.43 | 1.42 |
| PH3613 | 2.93 | 3.00 | 3.07 | 3.07 | 3.07 | 3.07 | 3.14 | 3.14 | 3.06 |
| PH3640 | 2.64 | 2.64 | 2.57 | 2.57 | 2.57 | 2.57 | 2.57 | 2.64 | 2.60 |
| PH3641 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 |
| PH3671 | 1.71 | 1.64 | 1.64 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.70 |
| Total Avg. :- | 2.39 | 2.38 | 2.39 | 2.38 | 2.40 | 2.39 | 2.44 | 2.41 | 2.40 |

Student Feedback Chart - 6th Semester




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Feedback on Curriculum (Students 2022-23)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| SFOC01 | 0 | 42.86 | 28.57 | 28.57 | 0 | 2.14 |
| SFOC02 | 0 | 28.57 | 42.86 | 14.29 | 14.29 | 1.86 |
| SFOC03 | 0 | 28.57 | 42.86 | 28.57 | 0 | 2 |
| SFOC04 | 0 | 28.57 | 28.57 | 42.86 | 0 | 1.86 |
| SFOC05 | 0 | 42.86 | 14.29 | 42.86 | 0 | 2 |
| SFOC06 | 14.29 | 28.57 | 14.29 | 42.86 | 0 | 2.14 |
| SFOC07 | 0 | 28.57 | 28.57 | 42.86 | 0 | 1.86 |
| SFOC08 | 14.29 | 28.57 | 14.29 | 42.86 | 0 | 2.14 |
| SFOC09 | 14.29 | 28.57 | 14.29 | 42.86 | 0 | 2.14 |
| SFOC10 | 0 | 28.57 | 28.57 | 28.57 | 14.29 | 1.71 |
| SFOC11 | 0 | 28.57 | 14.29 | 42.86 | 14.29 | 1.57 |
| SFOC12 | 0 | 28.57 | 28.57 | 28.57 | 14.29 | 1.71 |
| SFOC13 | 0 | 28.57 | 14.29 | 42.86 | 14.29 | 1.57 |
| SFOC14 | 0 | 28.57 | 14.29 | 42.86 | 14.29 | 1.57 |
| SFOC15 | 0 | 28.57 | 14.29 | 42.86 | 14.29 | 1.57 |
| SFOC16 | 0 | 28.57 | 14.29 | 57.14 | 0 | 1.71 |
| SFOC17 | 0 | 42.86 | 14.29 | 42.86 | 0 | 2 |
| SFOC18 | 0 | 28.57 | 28.57 | 28.57 | 14.29 | 1.71 |

Orientation at the beginning of the semester to inform you about different value added programs such as electives, Minor Program, Passion Program, and also about University rules & regulation.



Departmental Orientation to inform you about the course objectives and their outcomes, generic information about class representatives, student representatives, mentors, etc.



Clarity of Information given in advance by department about the trainings/ workshop, certifications, planned for the semester.



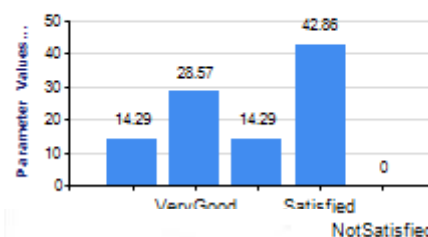
Participation of teachers and mentors to assist you in choosing the Electives/ Minor Program/Passion Program in the semester.



Structure, comprehensiveness and relevance of the semester Curriculum.



Effectivity of the Curriculum in enhancing communication and presentation skills, critical thinking, team-work through Value Added Programs (VAP), presentations and peer group learning.




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Effectivity of the Curriculum in developing analytical and problem solving skills through mini project works, flipped classes and research based assignments, case studies, et



Selection of Lab Practicals, and assignments in the curriculum to complement theory classes during the semester



Consistency, quality and duration of labs through the semester.



Effectivity of the Curriculum to create awareness on National and international issues like gender equality, environment, human values, wellness etc.



Effectivity of the Curriculum in developing ICT and communication skills



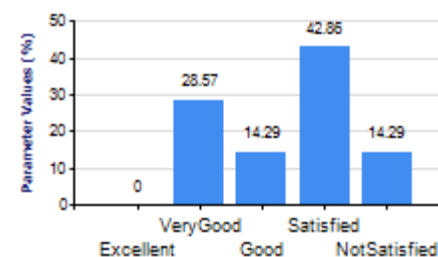
Relevance of the curriculum to real life situations, current trends and practices in the respective discipline.



Effectivity of the curriculum in ensuring job related skills through trainings/workshops/internships/industry connect and in providing standardised certification (Only for Sr. batches).



Effectivity of inter-disciplinary components of the curriculum such as Minors and Open Electives in enhancing the range of your skills and competencies (if any)



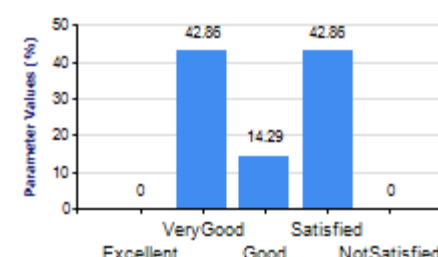
Enrichment brought to you through various Co-curricular Passion Programs, Campus Clubs and Societies and also various Extra Curricular activities.



Learning experience of MOOC/ Swyam/other online portals and Industry collaborated Programs as a part of curriculum (If applicable)



Quality of examination/appraisal/assessment of the students through quizzes, assignments, written examinations, project works, presentations, submissions, etc.



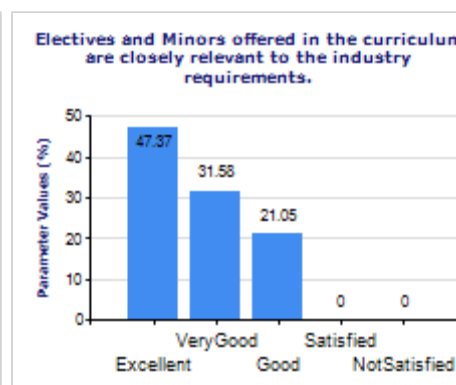
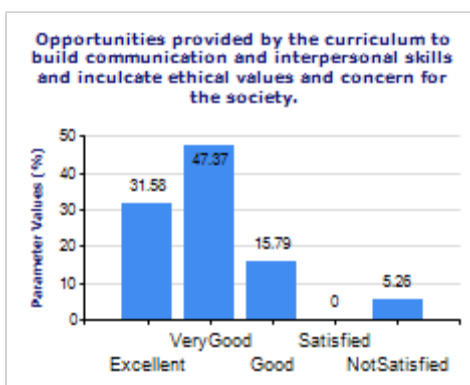
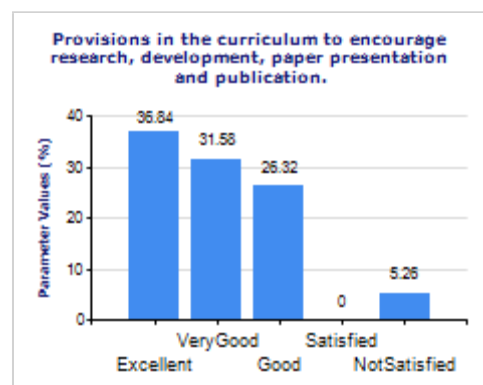
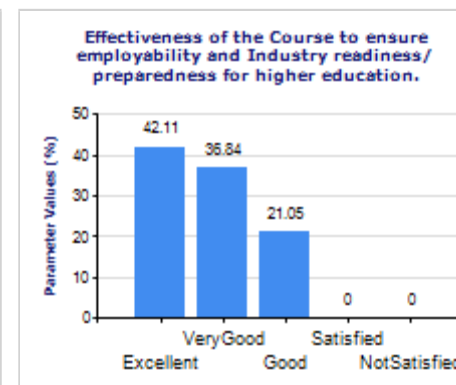
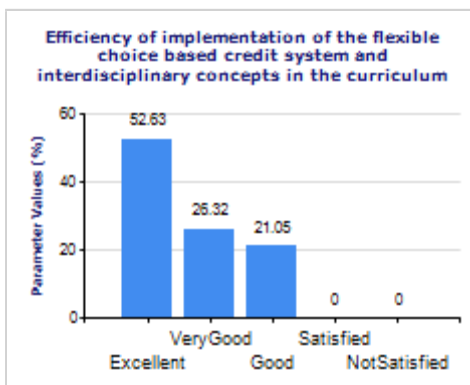
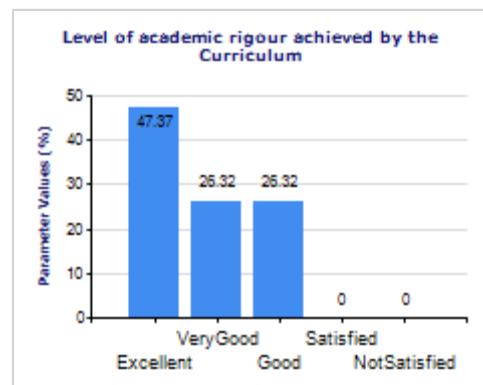
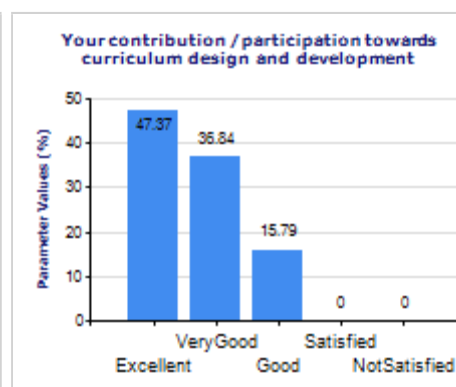
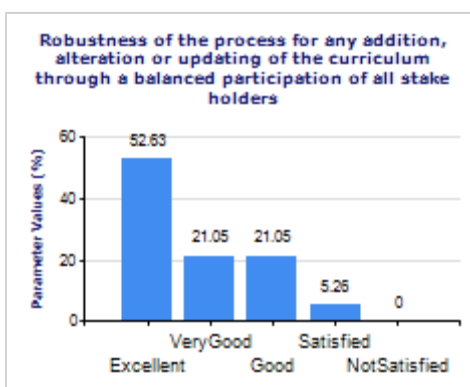
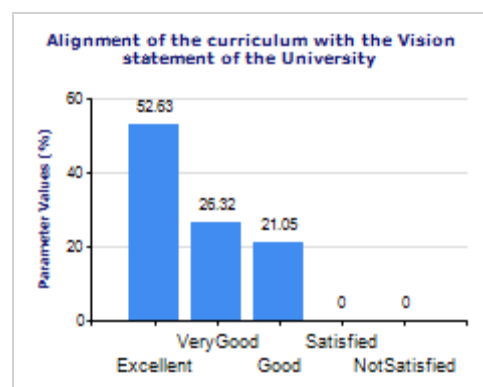
Over all learning experience in the semester in the light of your expectations




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Feedback on Curriculum (Teachers 2022-23)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| TFOC01 | 52.63 | 26.32 | 21.05 | 0 | 0 | 3.32 |
| TFOC02 | 52.63 | 21.05 | 21.05 | 5.26 | 0 | 3.21 |
| TFOC03 | 47.37 | 36.84 | 15.79 | 0 | 0 | 3.32 |
| TFOC04 | 47.37 | 26.32 | 26.32 | 0 | 0 | 3.21 |
| TFOC05 | 52.63 | 26.32 | 21.05 | 0 | 0 | 3.32 |
| TFOC06 | 42.11 | 36.84 | 21.05 | 0 | 0 | 3.21 |
| TFOC07 | 36.84 | 31.58 | 26.32 | 0 | 5.26 | 2.95 |
| TFOC08 | 31.58 | 47.37 | 15.79 | 0 | 5.26 | 3 |
| TFOC09 | 47.37 | 31.58 | 21.05 | 0 | 0 | 3.26 |
| TFOC10 | 52.63 | 21.05 | 26.32 | 0 | 0 | 3.26 |




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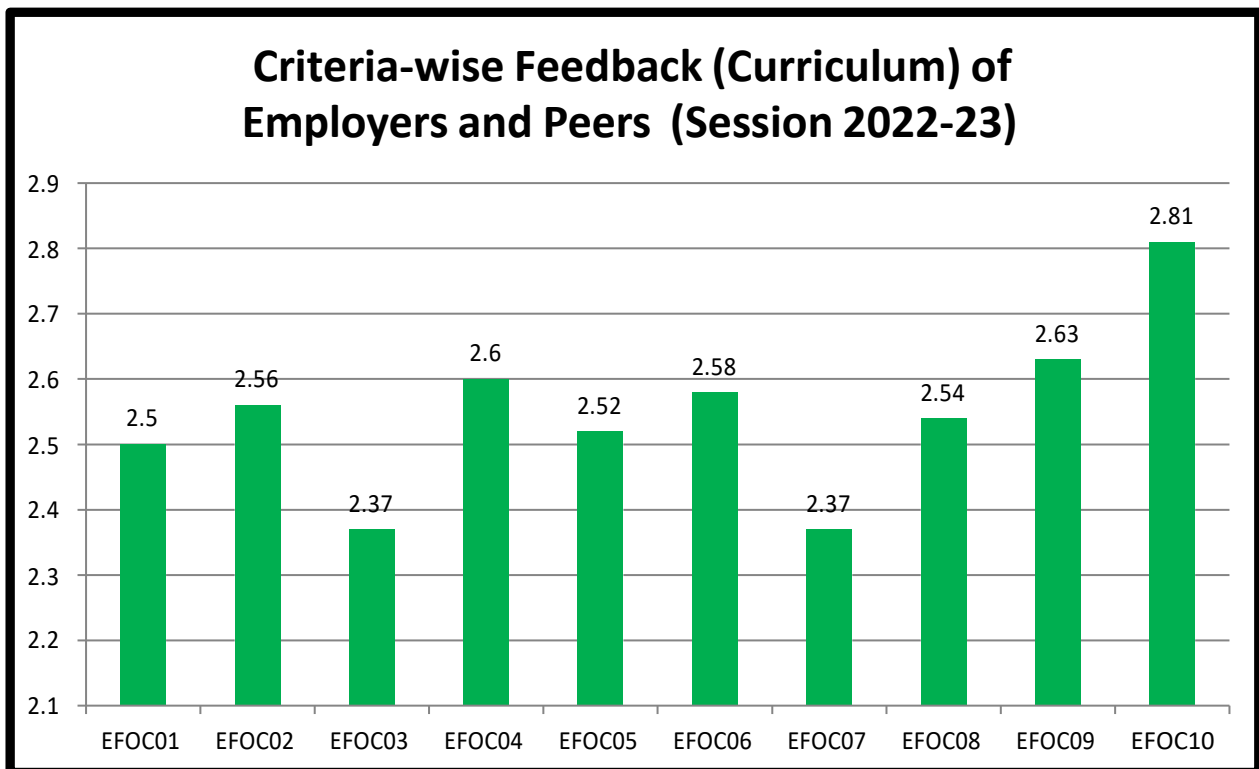
Emphasis on issues of national and international importance like Gender Equality, Environment, Ethics and Human values through group learning techniques in the curriculum and teaching pedagogy.




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Feedback on Curriculum (Employer 2022-23)

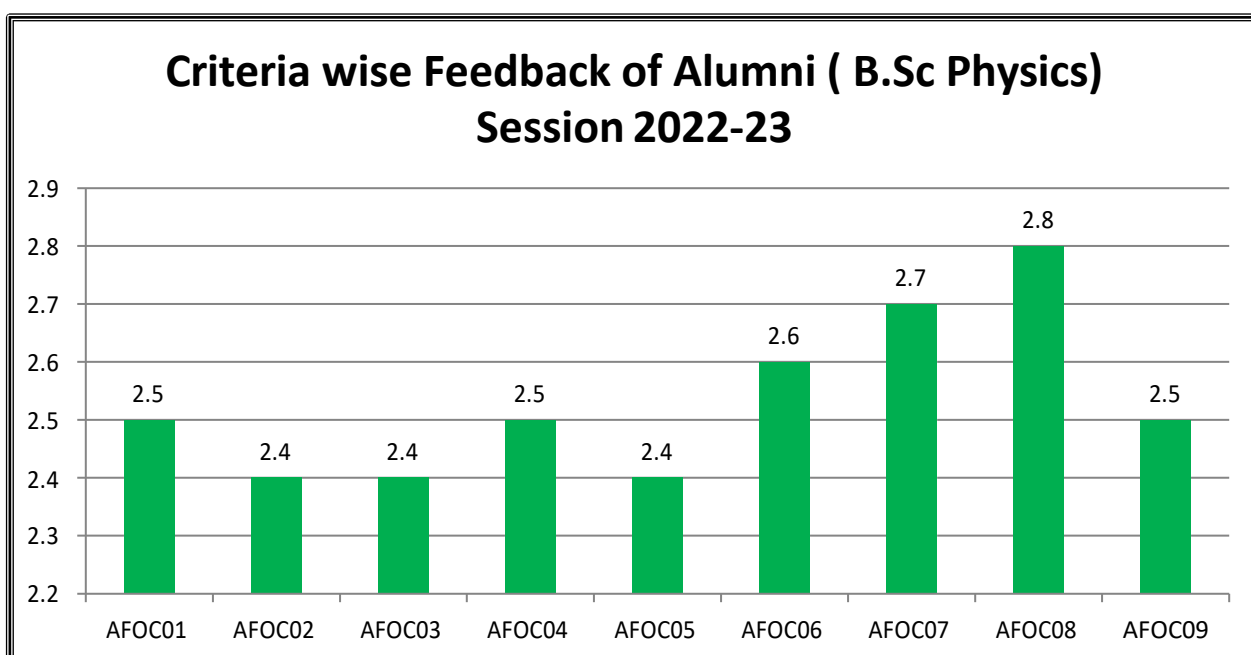
| Parameters | Average Responses |
|------------|-------------------|
| EFOC01 | 2.5 |
| EFOC02 | 2.56 |
| EFOC03 | 2.37 |
| EFOC04 | 2.6 |
| EFOC05 | 2.52 |
| EFOC06 | 2.58 |
| EFOC07 | 2.37 |
| EFOC08 | 2.54 |
| EFOC09 | 2.63 |
| EFOC10 | 2.81 |




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Feedback on Curriculum (Alumni 2022-23)

| Parameters | Average Response |
|------------|------------------|
| AFOC01 | 2.5 |
| AFOC02 | 2.4 |
| AFOC03 | 2.4 |
| AFOC04 | 2.5 |
| AFOC05 | 2.4 |
| AFOC06 | 2.6 |
| AFOC07 | 2.7 |
| AFOC08 | 2.8 |
| AFOC09 | 2.5 |




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**Action Suggested by Internal Quality Assurance Cell
on the basis of Student's Feedback (on Courses) and the Feedback (Students, Teachers, Employers
and Alumni) Feedback on Curriculum**

(Action suggested to all the reference parameters below $M+\sigma$, where M is mean and σ is standard deviation of the average rating of reference parameters)

Feedback on Curriculum (Students 2022-23)

List of reference parameters for action (below $M+\sigma$)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| SFOC02 | 0 | 28.57 | 42.86 | 14.29 | 14.29 | 1.86 |
| SFOC03 | 0 | 28.57 | 42.86 | 28.57 | 0 | 2 |
| SFOC04 | 0 | 28.57 | 28.57 | 42.86 | 0 | 1.86 |
| SFOC05 | 0 | 42.86 | 14.29 | 42.86 | 0 | 2 |
| SFOC07 | 0 | 28.57 | 28.57 | 42.86 | 0 | 1.86 |
| SFOC10 | 0 | 28.57 | 28.57 | 28.57 | 14.29 | 1.71 |
| SFOC11 | 0 | 28.57 | 14.29 | 42.86 | 14.29 | 1.57 |
| SFOC12 | 0 | 28.57 | 28.57 | 28.57 | 14.29 | 1.71 |
| SFOC13 | 0 | 28.57 | 14.29 | 42.86 | 14.29 | 1.57 |
| SFOC14 | 0 | 28.57 | 14.29 | 42.86 | 14.29 | 1.57 |
| SFOC15 | 0 | 28.57 | 14.29 | 42.86 | 14.29 | 1.57 |
| SFOC16 | 0 | 28.57 | 14.29 | 57.14 | 0 | 1.71 |
| SFOC17 | 0 | 42.86 | 14.29 | 42.86 | 0 | 2 |
| SFOC18 | 0 | 28.57 | 28.57 | 28.57 | 14.29 | 1.71 |

Feedback on Curriculum (Teachers 2022-23)

List of reference parameters for action (below $M+\sigma<3.2$)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| TFOC07 | 36.84 | 31.58 | 26.32 | 0 | 5.26 | 2.95 |
| TFOC08 | 31.58 | 47.37 | 15.79 | 0 | 5.26 | 3 |

Feedback on Curriculum (Employer 2022-23)

List of reference parameters for action (below $M+\sigma<2.5$)

| Parameters | Average Responses |
|------------|-------------------|
| EFOC03 | 2.37 |
| EFOC07 | 2.37 |

Feedback on Curriculum (Alumni 2022-23)

List of reference parameters for action (below $M+\sigma<2.5$)

| Parameters | Average Response |
|------------|------------------|
| AFOC02 | 2.4 |
| AFOC03 | 2.4 |
| AFOC05 | 2.4 |

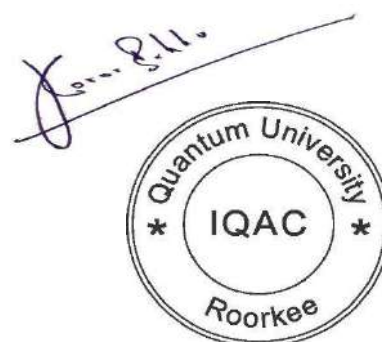

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| | Reference Parameters Requiring Action | | Ref No | Recommendations of SSG of the Department |
|--|---|-----------------------------------|--------|--|
| Course Feedback | SFOC01 (1.70) SFOS02 (1.67) SFOS03 (1.66) SFOS04 (1.65) SFOS05 (1.68) SFOC05 (2) | Overall Teaching Learning Process | R-1 | Teaching learning process should be innovative and need effective course delivery It is required to supply the different handouts of virtual laboratory, reference materials (like PPT, videos, Books etc) must be given to the class students previously. To improve the quality of content, lecture delivery with real world examples related to the topics. Faculty need to prepare the interactive and planned contents for the delivery of lecture during class room lecture. Faculty must impart the information of new research currently going on with the subject related topics. The course structure must be mapped (like lab plan, BL level, class notes etc) in ERP or other modern electronic tools by the faculty PH3106, PH3141, CS3202, MA3207, PH3241, CS3241, PH3306, MA3308, PH3340, CY3406, MA3406, PH3440, MA3440, PH3542, PH3670 |
| | SFOS06 (1.69) SFOC16 (1.71) | Online Learning Platform | R-2 | Need advanced training (working on online teaching / learning app.) of teachers for online protocols during COVID-19. |
| | SFOS07 (1.66) SFOC17 (2) | Evaluation System | R-3 | Need continuous evaluation of the student. Pattern of Exam with new examination schemes as suggested by UAC (like more online videos related to subjects, Online Quiz for lab and theory, open book exam etc.) |
| Curriculum Feedback by Students | SFOC08 (1.70) SFOC13 (1.57) EFOC03 (2.37) | Training for Placement | R-4 | For grooming the personality of the students required two or three-week online training programs should be organised on Technical Skills. Industrial Seminars & Workshops should be organised. |
| | SFOC02 (1.86) SFOC03 (2) SFOC04 (1.86) | Elaborative Orientation Program | R-5 | Orientation program should be made interesting and informative. |


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| | | | | |
|--|--|--------------------------------------|------|---|
| | SFOC07 (1.86) SFOC12 (1.71) TFOC08 (3) EFOC07 (2.37) TFOC07 (2.95) TFOC08 (3) | Effective Communication System | R-6 | Online Group discussion & resume building training needed for sciences students. Students must be giving presentations on any topic in every individual course given by faculties. A2 assignments should be Mini project/ Research paper based for fast learners & topics based for slow learners |
| | SFOC10 (1.71) AFOC05 (2.4) AFOC03 (2.4) | Guest Lectures/ Workshop | R-7 | More guest lectures, Seminars & Workshops should be required for science students For Depth knowledge of the subject. |
| | SFOC11 (1.57) | IT Enabled Literacy | R-8 | Use of virtual lab related to the courses for online protocols. Tying up with learning virtual lab platforms like Coursera, NPTEL, IBM etc. |
| | SFOC14 (1.57) | Interdisciplinary Exposure | R-9 | Students should be encouraged to opt for minor and open elective courses that enhances their employability. Mentors should guide them in opting relevance minor courses |
| | SFOC15 (1.57) | Extra Curriculum Activities | R-10 | Students should be encouraged for participation on line competitions at international/National of repute. |
| Additional Recommendations given by SSG towards Vision and Mission of the Department | | | | |
| Additional Recommendation | | FDPs | AR-1 | Teaching Skills should be improved through hands-on workshop. |


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Karan Babbar
Coordinator, IQAC

CURRICULUM FEEDBACK ANALYSIS REPORT

Session (2022-23)

Bachelor of Science (Hons) in Chemistry



DEPARTMENT OF SCIENCES
Faculty of Graduate Studies
Quantum University

A handwritten signature in blue ink, appearing to read 'A. K. Singh', is written over a blue circular stamp. Below the signature, the text 'Registrar Quantum University' is printed in blue.

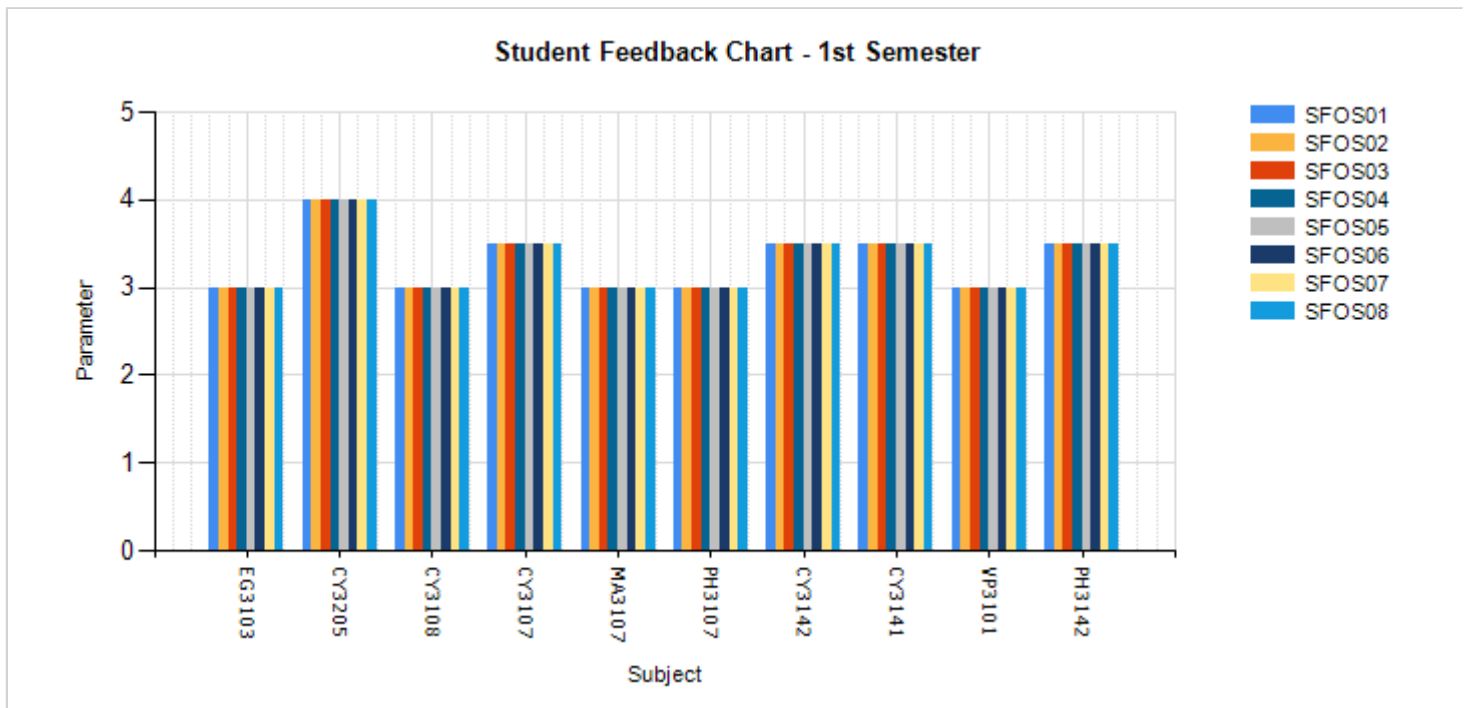
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Data Representation of Feedback Feedback on Curriculum (Students)

1st Semester 2022-23

No of Students: 2

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| EG3103 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| CY3205 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| CY3108 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| CY3107 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| MA3107 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| PH3107 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| CY3142 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| CY3141 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| VP3101 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| PH3142 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| Total Avg. :- | 3.30 | 3.30 | 3.30 | 3.30 | 3.30 | 3.30 | 3.30 | 3.30 | 3.30 |



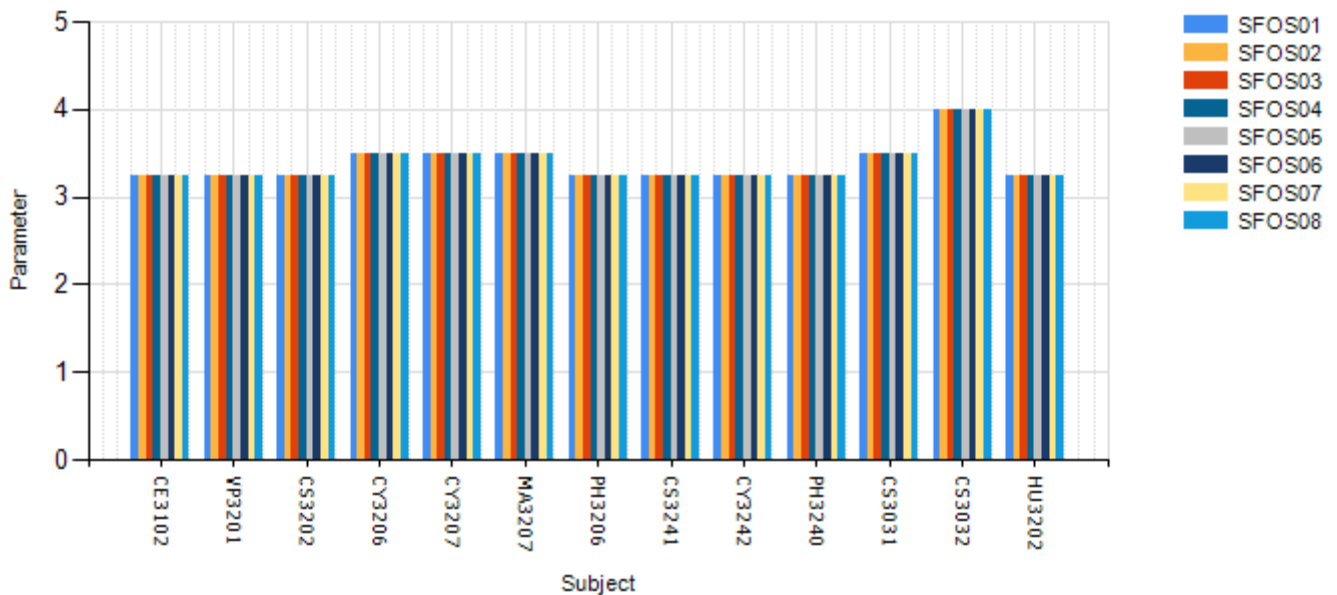

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2nd Semester 2022-23

No of Students:2

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| CE3102 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| VP3201 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| CS3202 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| CY3206 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| CY3207 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| MA3207 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| PH3206 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| CS3241 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| CY3242 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| PH3240 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| CS3031 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| CS3032 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| HU3202 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 |
| Total Avg. :- | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 |

Student Feedback Chart - 2nd Semester



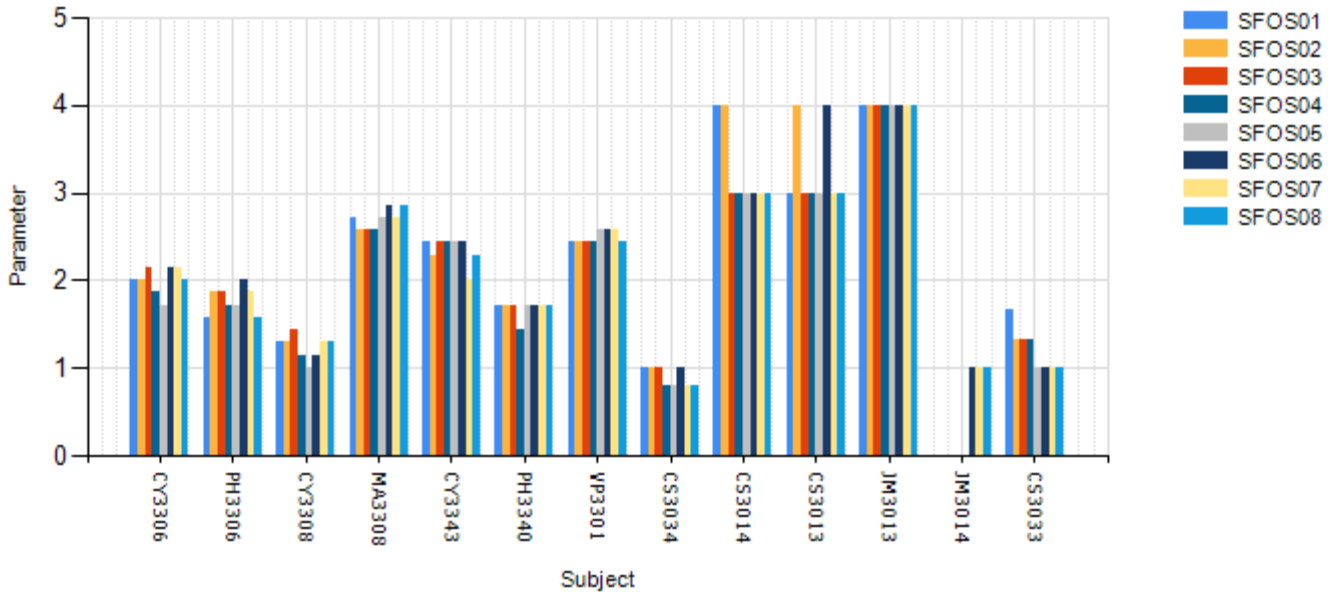

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3rd Semester 2022-23

No of Students:7

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| CY3306 | 2.00 | 2.00 | 2.14 | 1.86 | 1.71 | 2.14 | 2.14 | 2.00 | 2.00 |
| PH3306 | 1.57 | 1.86 | 1.86 | 1.71 | 1.71 | 2.00 | 1.86 | 1.57 | 1.77 |
| CY3308 | 1.29 | 1.29 | 1.43 | 1.14 | 1.00 | 1.14 | 1.29 | 1.29 | 1.23 |
| MA3308 | 2.71 | 2.57 | 2.57 | 2.57 | 2.71 | 2.86 | 2.71 | 2.86 | 2.70 |
| CY3343 | 2.43 | 2.29 | 2.43 | 2.43 | 2.43 | 2.43 | 2.00 | 2.29 | 2.34 |
| PH3340 | 1.71 | 1.71 | 1.71 | 1.43 | 1.71 | 1.71 | 1.71 | 1.71 | 1.68 |
| VP3301 | 2.43 | 2.43 | 2.43 | 2.43 | 2.57 | 2.57 | 2.57 | 2.43 | 2.48 |
| CS3034 | 1.00 | 1.00 | 1.00 | 0.80 | 0.80 | 1.00 | 0.80 | 0.80 | 0.90 |
| CS3014 | 4.00 | 4.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.25 |
| CS3013 | 3.00 | 4.00 | 3.00 | 3.00 | 3.00 | 4.00 | 3.00 | 3.00 | 3.25 |
| JM3013 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 |
| JM3014 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.38 |
| CS3033 | 1.67 | 1.33 | 1.33 | 1.33 | 1.00 | 1.00 | 1.00 | 1.00 | 1.21 |
| Total Avg. :- | 2.14 | 2.19 | 2.07 | 1.98 | 1.97 | 2.22 | 2.08 | 2.07 | 2.09 |

Student Feedback Chart - 3rd Semester

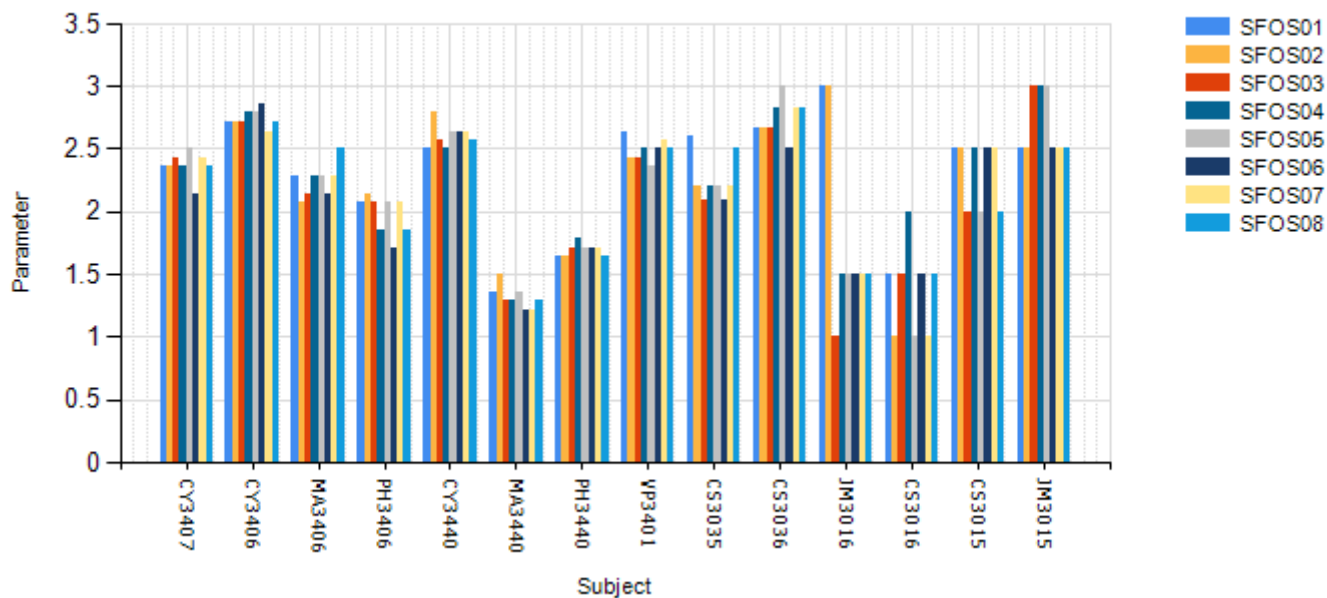



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4th Semester 2022-23
No of Students:7

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| CY3407 | 2.36 | 2.36 | 2.43 | 2.36 | 2.50 | 2.14 | 2.43 | 2.36 | 2.37 |
| CY3406 | 2.71 | 2.71 | 2.71 | 2.79 | 2.79 | 2.86 | 2.64 | 2.71 | 2.74 |
| MA3406 | 2.29 | 2.07 | 2.14 | 2.29 | 2.29 | 2.14 | 2.29 | 2.50 | 2.25 |
| PH3406 | 2.07 | 2.14 | 2.07 | 1.86 | 2.07 | 1.71 | 2.07 | 1.86 | 1.98 |
| CY3440 | 2.50 | 2.79 | 2.57 | 2.50 | 2.64 | 2.64 | 2.64 | 2.57 | 2.61 |
| MA3440 | 1.36 | 1.50 | 1.29 | 1.29 | 1.36 | 1.21 | 1.21 | 1.29 | 1.31 |
| PH3440 | 1.64 | 1.64 | 1.71 | 1.79 | 1.71 | 1.71 | 1.71 | 1.64 | 1.70 |
| VP3401 | 2.64 | 2.43 | 2.43 | 2.50 | 2.36 | 2.50 | 2.57 | 2.50 | 2.49 |
| CS3035 | 2.60 | 2.20 | 2.10 | 2.20 | 2.20 | 2.10 | 2.20 | 2.50 | 2.26 |
| CS3036 | 2.67 | 2.67 | 2.67 | 2.83 | 3.00 | 2.50 | 2.83 | 2.83 | 2.75 |
| JM3016 | 3.00 | 3.00 | 1.00 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.81 |
| CS3016 | 1.50 | 1.00 | 1.50 | 2.00 | 1.00 | 1.50 | 1.00 | 1.50 | 1.38 |
| CS3015 | 2.50 | 2.50 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.00 | 2.31 |
| JM3015 | 2.50 | 2.50 | 3.00 | 3.00 | 3.00 | 2.50 | 2.50 | 2.50 | 2.69 |
| Total Avg. :- | 2.31 | 2.25 | 2.12 | 2.24 | 2.17 | 2.11 | 2.15 | 2.16 | 2.19 |

Student Feedback Chart - 4th Semester



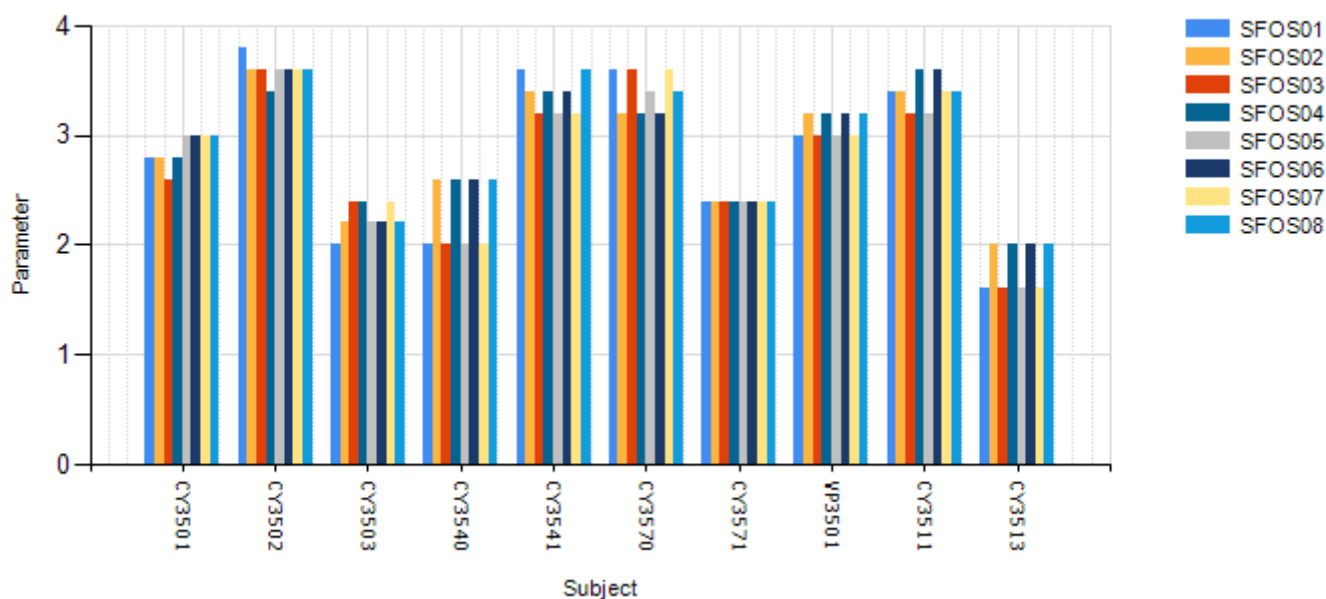

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5th Semester 2022-23

No of Students;5

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| CY3501 | 2.80 | 2.80 | 2.60 | 2.80 | 3.00 | 3.00 | 3.00 | 3.00 | 2.88 |
| CY3502 | 3.80 | 3.60 | 3.60 | 3.40 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 |
| CY3503 | 2.00 | 2.20 | 2.40 | 2.40 | 2.20 | 2.20 | 2.40 | 2.20 | 2.25 |
| CY3540 | 2.00 | 2.60 | 2.00 | 2.60 | 2.00 | 2.60 | 2.00 | 2.60 | 2.30 |
| CY3541 | 3.60 | 3.40 | 3.20 | 3.40 | 3.20 | 3.40 | 3.20 | 3.60 | 3.38 |
| CY3570 | 3.60 | 3.20 | 3.60 | 3.20 | 3.40 | 3.20 | 3.60 | 3.40 | 3.40 |
| CY3571 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 |
| VP3501 | 3.00 | 3.20 | 3.00 | 3.20 | 3.00 | 3.20 | 3.00 | 3.20 | 3.10 |
| CY3511 | 3.40 | 3.40 | 3.20 | 3.60 | 3.20 | 3.60 | 3.40 | 3.40 | 3.40 |
| CY3513 | 1.60 | 2.00 | 1.60 | 2.00 | 1.60 | 2.00 | 1.60 | 2.00 | 1.80 |
| Total Avg. :- | 2.82 | 2.88 | 2.76 | 2.90 | 2.76 | 2.92 | 2.82 | 2.94 | 2.85 |

Student Feedback Chart - 5th Semester



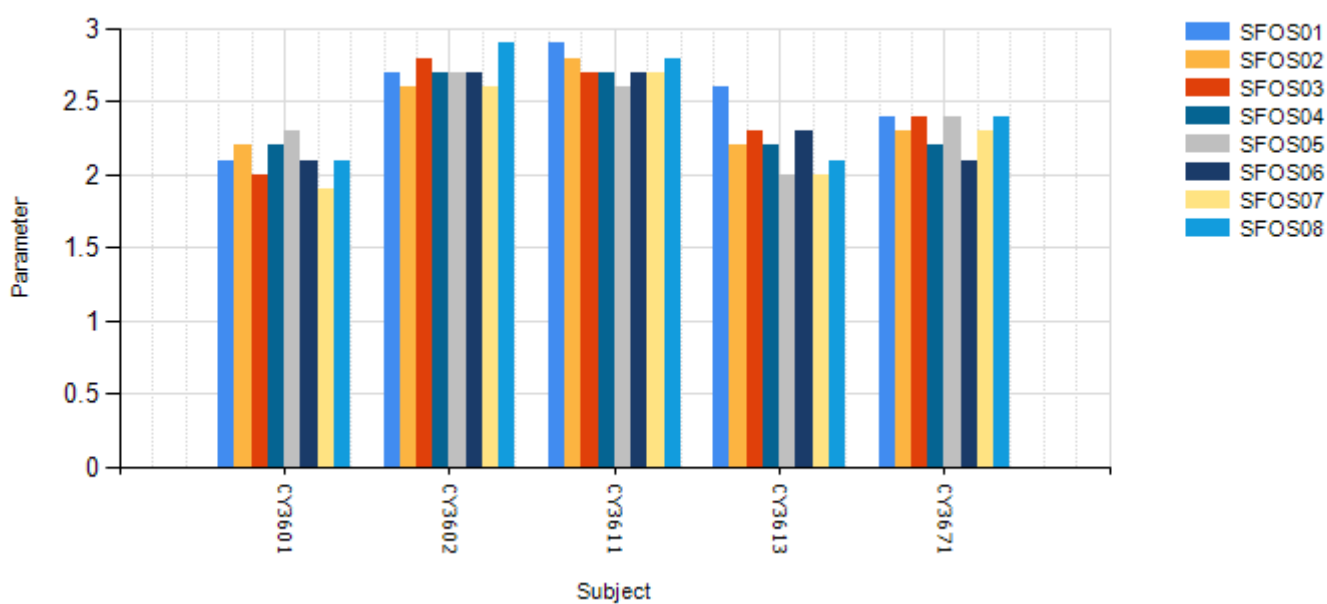

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6th Semester 2022-23

No of Students:5

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| CY3601 | 2.10 | 2.20 | 2.00 | 2.20 | 2.30 | 2.10 | 1.90 | 2.10 | 2.11 |
| CY3602 | 2.70 | 2.60 | 2.80 | 2.70 | 2.70 | 2.70 | 2.60 | 2.90 | 2.71 |
| CY3611 | 2.90 | 2.80 | 2.70 | 2.70 | 2.60 | 2.70 | 2.70 | 2.80 | 2.74 |
| CY3613 | 2.60 | 2.20 | 2.30 | 2.20 | 2.00 | 2.30 | 2.00 | 2.10 | 2.21 |
| CY3671 | 2.40 | 2.30 | 2.40 | 2.20 | 2.40 | 2.10 | 2.30 | 2.40 | 2.31 |
| Total Avg. :- | 2.54 | 2.42 | 2.44 | 2.40 | 2.40 | 2.38 | 2.30 | 2.46 | 2.42 |

Student Feedback Chart - 6th Semester




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Feedback on Curriculum (Students 2022-23)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|------|-----------|---------------|----------------|
| SFOC01 | 0 | 0 | 80 | 20 | 0 | 1.8 |
| SFOC02 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC03 | 0 | 0 | 80 | 20 | 0 | 1.8 |
| SFOC04 | 0 | 0 | 80 | 20 | 0 | 1.8 |
| SFOC05 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC06 | 0 | 0 | 80 | 20 | 0 | 1.8 |
| SFOC07 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC08 | 0 | 0 | 80 | 20 | 0 | 1.8 |
| SFOC09 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC10 | 0 | 20 | 60 | 20 | 0 | 2 |
| SFOC11 | 0 | 20 | 40 | 40 | 0 | 1.8 |
| SFOC12 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC13 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC14 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC15 | 0 | 0 | 80 | 20 | 0 | 1.8 |
| SFOC16 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC17 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC18 | 0 | 0 | 60 | 40 | 0 | 1.6 |

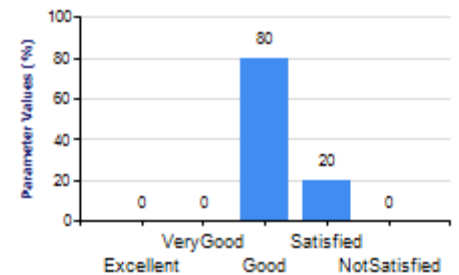
Orientation at the beginning of the semester to inform you about different value added programs such as electives, Minor Program, Passion Program, and also about University rules & regulation.



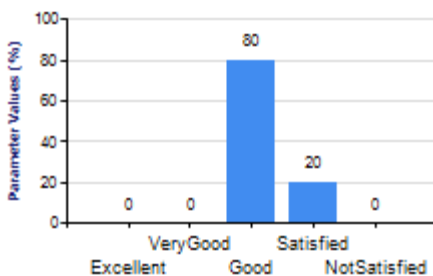
Departmental Orientation to inform you about the course objectives and their outcomes, generic information about class representatives, student representatives, mentors, etc.



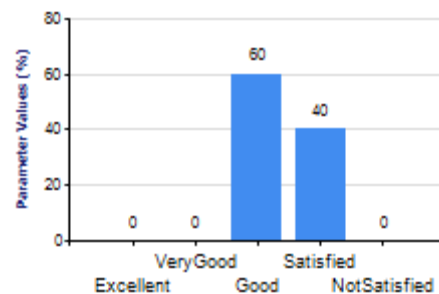
Clarity of Information given in advance by department about the trainings/ workshop, certifications, planned for the semester.



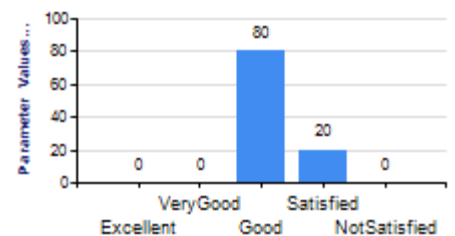
Participation of teachers and mentors to assist you in choosing the Electives/ Minor Program/Passion Program in the semester.



Structure, comprehensiveness and relevance of the semester Curriculum.



Effectivity of the Curriculum in enhancing communication and presentation skills, critical thinking, team-work through Value Added Programs(VAP), presentations and peer group learning.

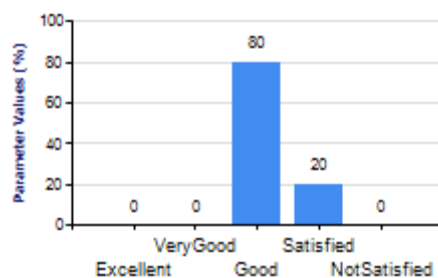



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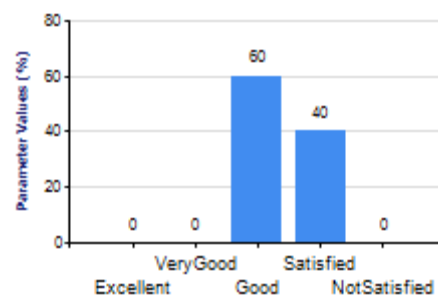
Effectivity of the Curriculum in developing analytical and problem solving skills through mini project works, flipped classes and research based assignments, case studies, et



Selection of Lab Practicals, and assignments in the curriculum to complement theory classes during the semester



Consistency, quality and duration of labs through the semester.



Effectivity of the Curriculum to create awareness on National and international issues like gender equality, environment, human values, wellness etc.



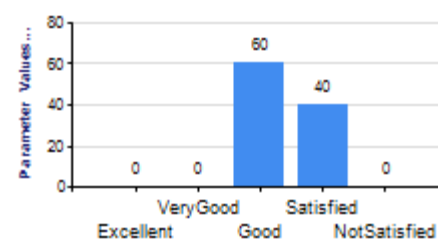
Effectivity of the Curriculum in developing ICT and communication skills



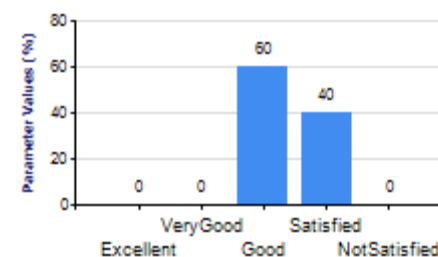
Relevance of the curriculum to real life situations, current trends and practices in the respective discipline.



Effectivity of the curriculum in ensuring job related skills through trainings/workshops/internships/industry connect and in providing standardised certification (Only for Sr. batches).



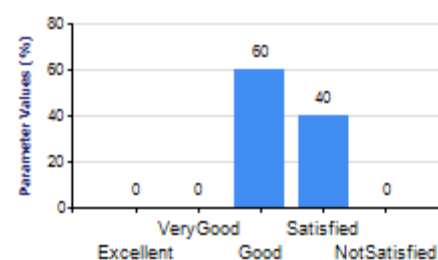
Effectivity of inter-disciplinary components of the curriculum such as Minors and Open Electives in enhancing the range of your skills and competencies (if any)



Enrichment brought to you through various Co-curricular Passion Programs, Campus Clubs and Societies and also various Extra Curricular activities.



Learning experience of MOOC/ Swyam/other online portals and Industry collaborated Programs as a part of curriculum (If applicable)



Quality of examination/appraisal/assessment of the students through quizzes, assignments, written examinations, project works, presentations, submissions, etc.



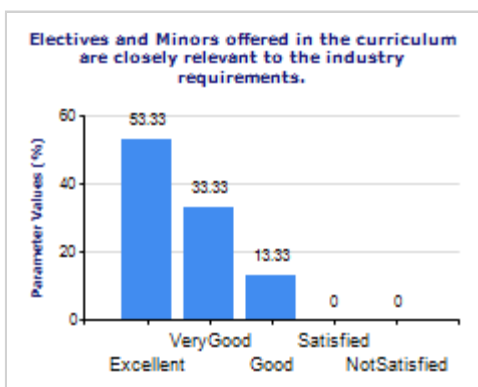
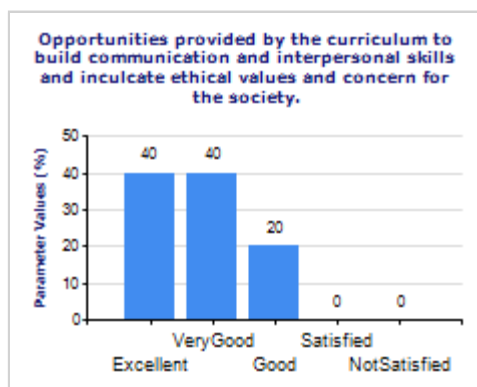
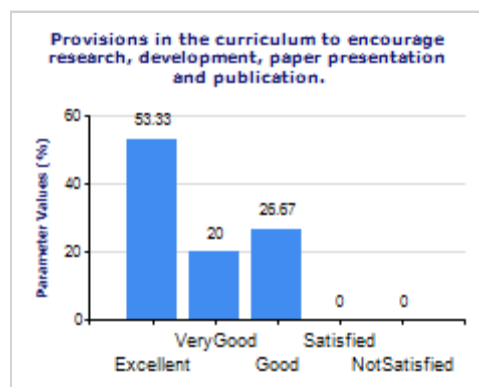
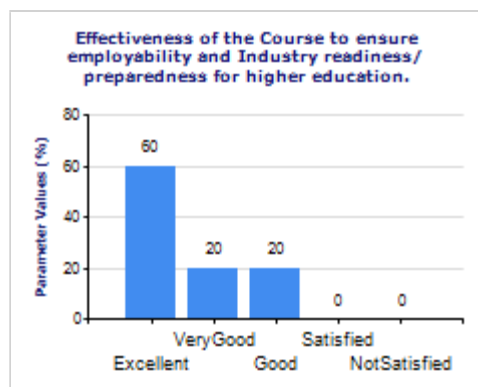
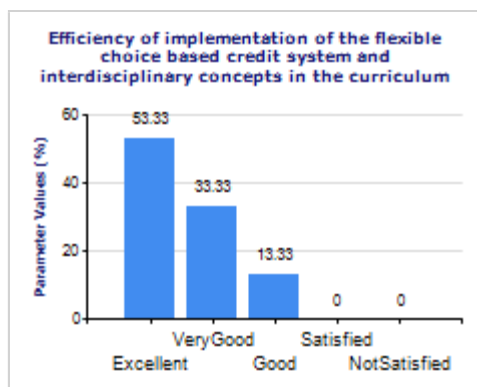
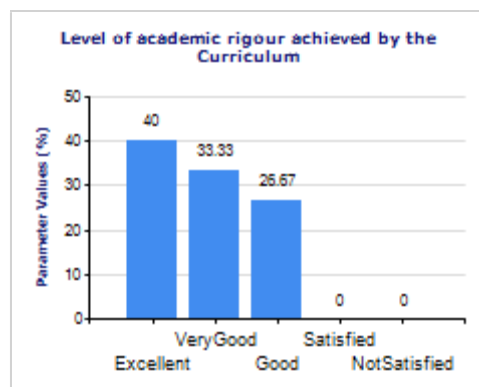
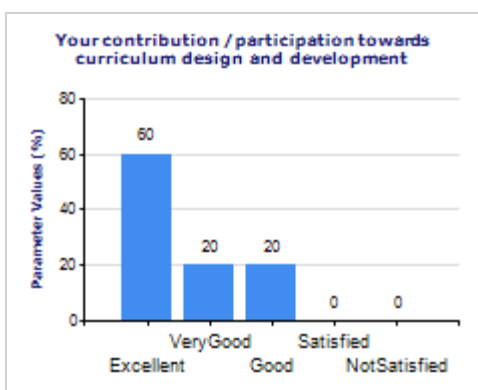
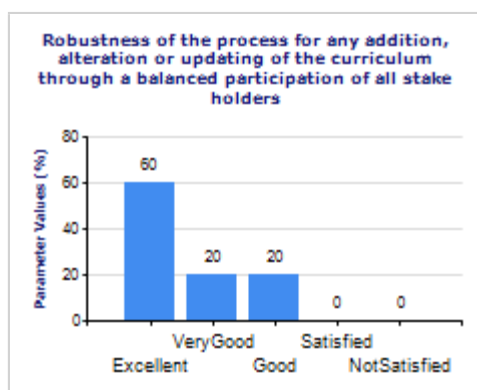
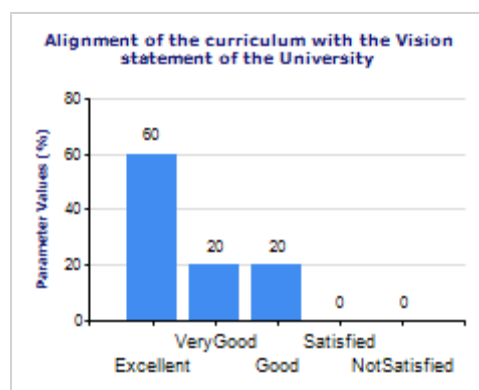
Over all learning experience in the semester in the light of your expectations




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Feedback on Curriculum (Teachers 2022-23)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| TFOC01 | 60 | 20 | 20 | 0 | 0 | 3.4 |
| TFOC02 | 60 | 20 | 20 | 0 | 0 | 3.4 |
| TFOC03 | 60 | 20 | 20 | 0 | 0 | 3.4 |
| TFOC04 | 40 | 33.33 | 26.67 | 0 | 0 | 3.13 |
| TFOC05 | 53.33 | 33.33 | 13.33 | 0 | 0 | 3.4 |
| TFOC06 | 60 | 20 | 20 | 0 | 0 | 3.4 |
| TFOC07 | 53.33 | 20 | 26.67 | 0 | 0 | 3.27 |
| TFOC08 | 40 | 40 | 20 | 0 | 0 | 3.2 |
| TFOC09 | 53.33 | 33.33 | 13.33 | 0 | 0 | 3.4 |
| TFOC10 | 66.67 | 13.33 | 20 | 0 | 0 | 3.47 |




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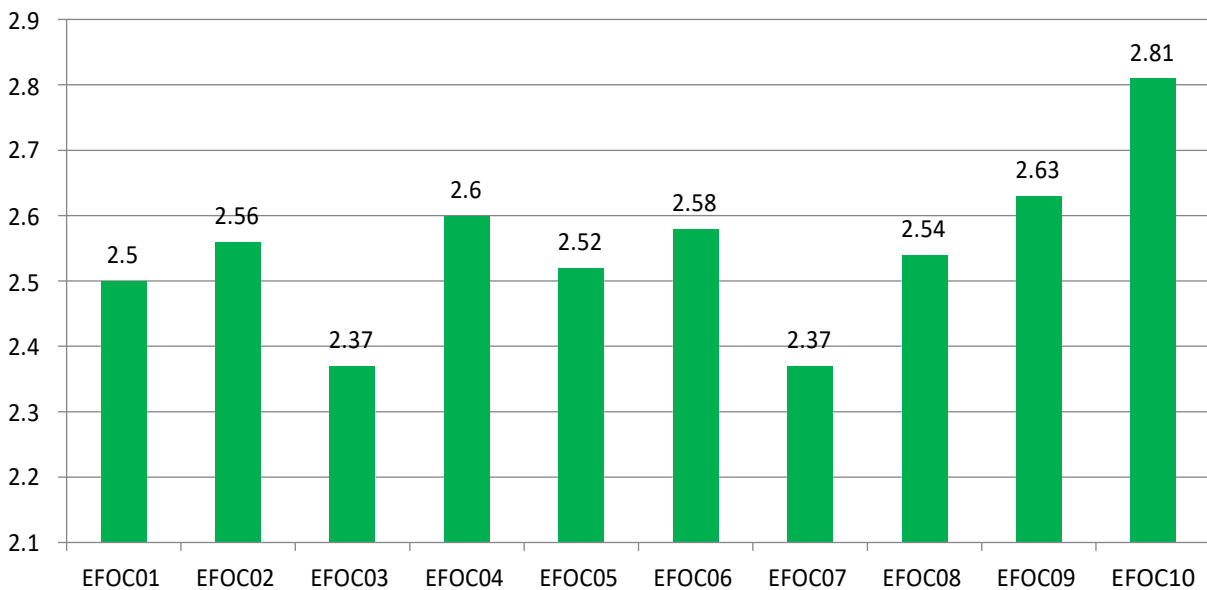
Emphasis on issues of national and international importance like Gender Equality, Environment, Ethics and Human values through group learning techniques in the curriculum and teaching pedagogy.



Feedback on Curriculum (Employer 2022-23)

| Parameters | Average Responses |
|------------|-------------------|
| EFOC01 | 2.5 |
| EFOC02 | 2.56 |
| EFOC03 | 2.37 |
| EFOC04 | 2.6 |
| EFOC05 | 2.52 |
| EFOC06 | 2.58 |
| EFOC07 | 2.37 |
| EFOC08 | 2.54 |
| EFOC09 | 2.63 |
| EFOC10 | 2.81 |

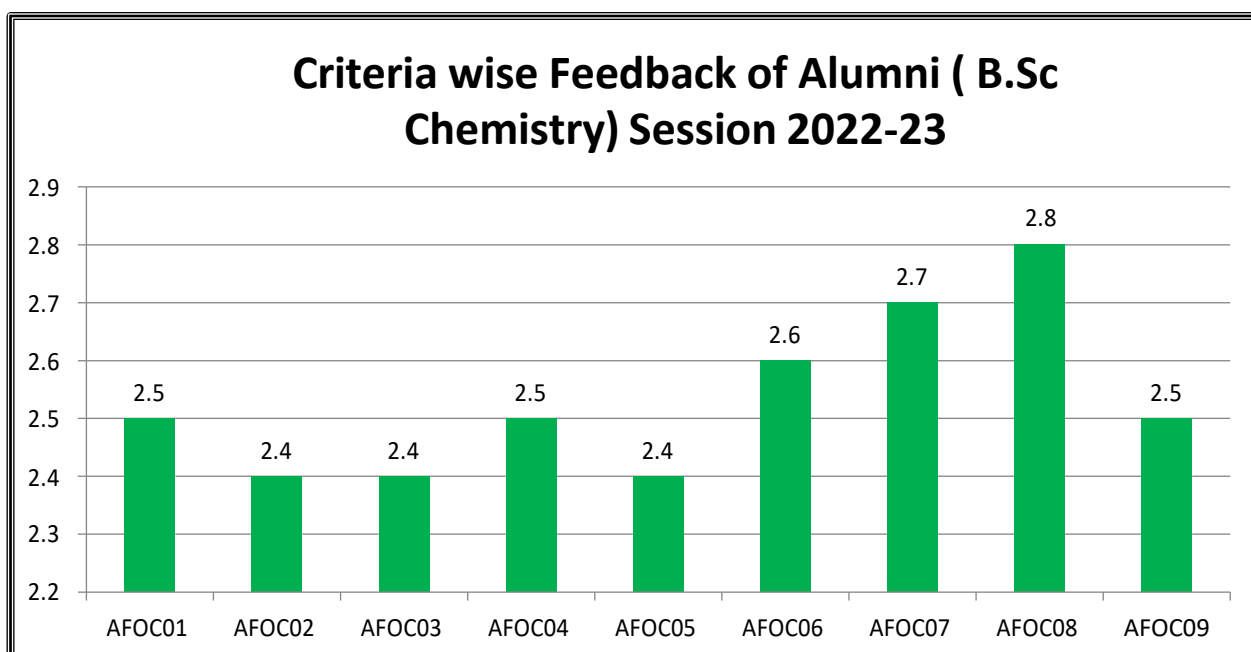
Criteria-wise Feedback (Curriculum) of Employers and Peers (Session 2022-23)



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Feedback on Curriculum (Alumni 2022-23)

| Parameters | Average Response |
|------------|------------------|
| AFOC01 | 2.5 |
| AFOC02 | 2.4 |
| AFOC03 | 2.4 |
| AFOC04 | 2.5 |
| AFOC05 | 2.4 |
| AFOC06 | 2.6 |
| AFOC07 | 2.7 |
| AFOC08 | 2.8 |
| AFOC09 | 2.5 |




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**Action Suggested by Internal Quality Assurance Cell
on the basis of Student's Feedback (on Courses) and the Feedback (Students, Teachers, Employers and Alumni) Feedback on Curriculum**

(Action suggested to all the reference parameters below $M+\sigma$, where M is mean and σ is standard deviation of the average rating of reference parameters)

Feedback on Curriculum (Students 2022-23)

List of reference parameters for action (below $M+\sigma<1.7$)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|------|-----------|---------------|----------------|
| SFOC02 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC05 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC07 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC09 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC12 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC13 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC14 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC16 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC17 | 0 | 0 | 60 | 40 | 0 | 1.6 |
| SFOC18 | 0 | 0 | 60 | 40 | 0 | 1.6 |

Feedback on Curriculum (Teachers 2022-23)

List of reference parameters for action (below $M+\sigma<3.4$)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| TFOC04 | 40 | 33.33 | 26.67 | 0 | 0 | 3.13 |
| TFOC07 | 53.33 | 20 | 26.67 | 0 | 0 | 3.27 |
| TFOC08 | 40 | 40 | 20 | 0 | 0 | 3.2 |

Feedback on Curriculum (Employer 2022-23)

List of reference parameters for action (below $M+\sigma<2.5$)

| Parameters | Average Responses |
|------------|-------------------|
| EFOC03 | 2.37 |
| EFOC07 | 2.37 |

Feedback on Curriculum (Alumni 2022-23)

List of reference parameters for action (below $M+\sigma<2.5$)

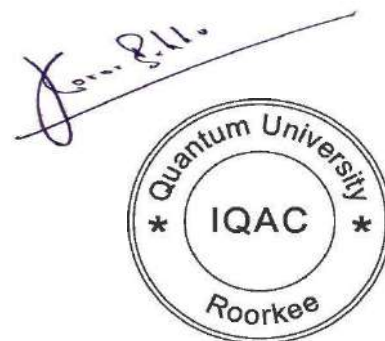
| Parameters | Average Response |
|------------|------------------|
| AFOC02 | 2.4 |
| AFOC03 | 2.4 |
| AFOC05 | 2.4 |


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| | Reference Parameters Requiring Action | | Ref No | Recommendations of SSG of the Department |
|---------------------------------|---|-----------------------------------|--------|--|
| Course Feedback | SFOS01 (2.14) SFOC05 (1.6) TFOC04 (3.13) | Quality of content | R-1 | Modification in the syllabus should be implemented as per the Projects/ start-ups/research/innovation/industry need. Required upgradation of the syllabus to make it more interactive for the students |
| | SFOC02 (2.19) SFOS03 (2.07) SFOS04 (1.98) | Overall Teaching Learning Process | R-2 | Instructed to the faculty to provide quality of hand notes Regular monitoring and confirmation from the students required during delivery of lecture. Motivated to faculty for more clarity in topic before delivering the lecture. Super Specialty Group (SSG) have been suggested for the monitoring of the quality of the different academic activities at the department level. |
| | SFOS05 (1.97) | Teaching Learning Process | R-3 | Teaching Skills should be improved through hands-on workshop. Need continuous evaluation of the student. |
| | SFOS06 (2.22) SFOC16 (1.6) | Online teaching Platform | R-4 | Use of virtual lab related to the courses. Tying up with learning virtual lab platforms like Coursera, NPTEL, IBM etc. |
| | SFOC07 (2.08) SFOC17 (1.6) | Effective Evaluation System | R-5 | Pattern of Exam with new examination schemes as suggested by UAC (like Online Quiz for lab and theory, open book exam etc.) Pattern & evaluation scheme of the examination should be properly informed initially to the students by the faculty. |
| | SFOS08 (2.07) SFOC13 (1.6) AFOC03 (2.4) | Job Oriented Training | R-6 | For grooming the personality of the students required two or three-week online training programs should be organized on Technical Skills. Industrial Seminars & Workshops should be organized. |
| Curriculum Feedback by Students | SFOC02 (1.6) | Elaborative Orientation Program | R-7 | Orientation program should be made interesting and informative. |
| | SFOC07 (1.6) SFOC12 (1.6) TFOC07 | Effective Communication System | R-8 | Online Group discussion & resume building training needed for sciences students. Students must be giving presentations on any topic in every individual course given by faculties. |

| | | | | |
|---|---|-------------------------------|------|---|
| | (3.27) TFOC08 (3.2) EFOC07 (2.37) | | | A2 assignments should be Mini project/ Research paper based for fast learners & topics based for slow learners Students should be encouraged for participation on line competitions at international/National of repute. |
| | SFOC09 (1.6) | IT Enabled Literacy | R-9 | Improvement in the lab assignment for the students. Faculty need to improve the quality of the questions and tutorials. |
| | SFOC14 (1.6) | Interdisciplinary Exposure | R-10 | Value Added Courses are needed for the students to improving the hands-on skills of the students. |
| | EFOC03 (2.37) | Practical Exposure | R-11 | More focus required for tie up with the industry or research institutes to get exposure for the students and faculties. |
| | AFOC05 (2.4) AFOC03 (2.4) | Guest Lectures/ Workshop | R-12 | More guest lectures, Seminars & Workshops should be required for science students For Depth knowledge of the subject. |
| Additional Recommendations given by SSG towards Vision and Mission of the Department | | | | |
| Additional Recommendation | | FDPs | AR-1 | Need advanced training (working on online teaching / learning app.) FDPs, Conference, workshops etc. of teachers. |


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Karan Babbar
Coordinator, IQAC

CURRICULUM FEEDBACK ANALYSIS REPORT

Session (2022-23)

Bachelor of Science (Hons) in Mathematics



DEPARTMENT OF SCIENCES
Faculty of Graduate Studies
Quantum University

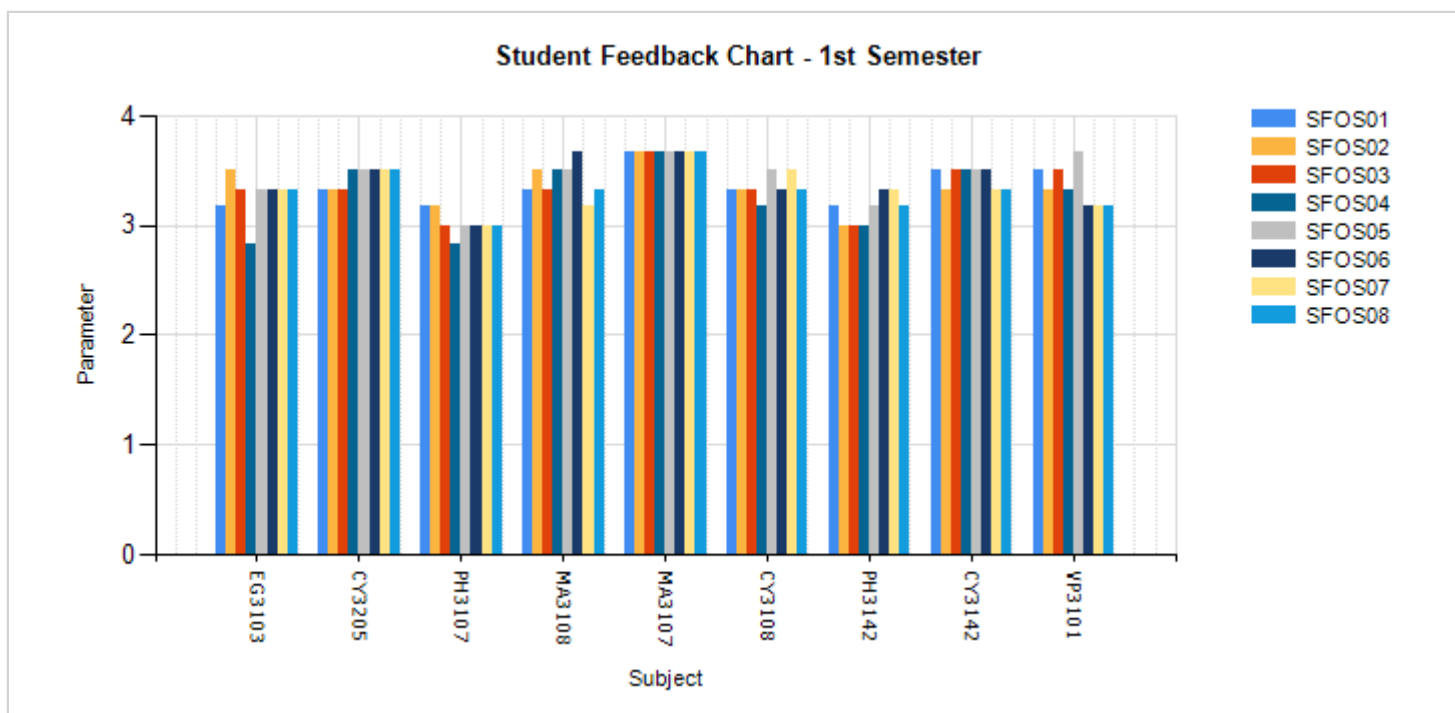
A handwritten signature in blue ink, appearing to be 'A. Singh', is written over a blue oval stamp. Below the signature, the text 'Registrar Quantum University' is printed in blue.

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Data Representation of Feedback Feedback on Curriculum (Students)

1st Semester 2022-23
No of Students: 7

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| EG3103 | 3.17 | 3.50 | 3.33 | 2.83 | 3.33 | 3.33 | 3.33 | 3.33 | 3.27 |
| CY3205 | 3.33 | 3.33 | 3.33 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.44 |
| PH3107 | 3.17 | 3.17 | 3.00 | 2.83 | 3.00 | 3.00 | 3.00 | 3.00 | 3.02 |
| MA3108 | 3.33 | 3.50 | 3.33 | 3.50 | 3.50 | 3.67 | 3.17 | 3.33 | 3.42 |
| MA3107 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 |
| CY3108 | 3.33 | 3.33 | 3.33 | 3.17 | 3.50 | 3.33 | 3.50 | 3.33 | 3.35 |
| PH3142 | 3.17 | 3.00 | 3.00 | 3.00 | 3.17 | 3.33 | 3.33 | 3.17 | 3.15 |
| CY3142 | 3.50 | 3.33 | 3.50 | 3.50 | 3.50 | 3.50 | 3.33 | 3.33 | 3.44 |
| VP3101 | 3.50 | 3.33 | 3.50 | 3.33 | 3.67 | 3.17 | 3.17 | 3.17 | 3.35 |
| Total Avg. :- | 3.35 | 3.35 | 3.33 | 3.26 | 3.43 | 3.39 | 3.33 | 3.31 | 3.35 |

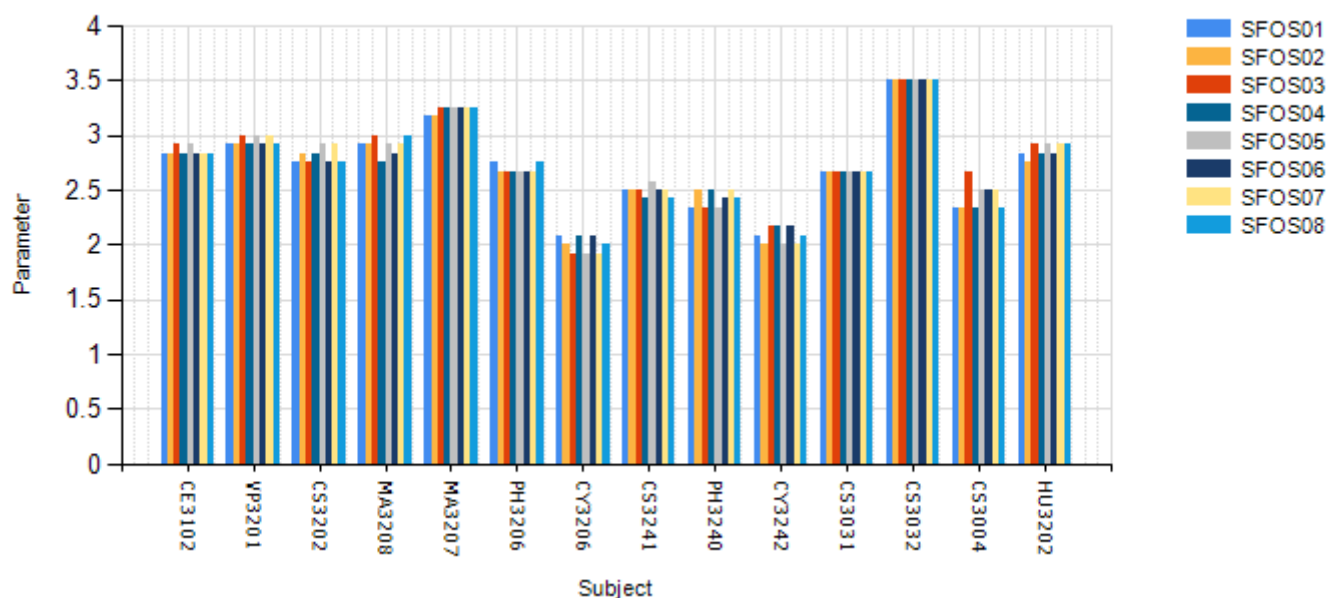



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2nd Semester 2022-23
No of Students: 7

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| CE3102 | 2.83 | 2.83 | 2.92 | 2.83 | 2.92 | 2.83 | 2.83 | 2.83 | 2.85 |
| VP3201 | 2.92 | 2.92 | 3.00 | 2.92 | 3.00 | 2.92 | 3.00 | 2.92 | 2.95 |
| CS3202 | 2.75 | 2.83 | 2.75 | 2.83 | 2.92 | 2.75 | 2.92 | 2.75 | 2.81 |
| MA3208 | 2.92 | 2.92 | 3.00 | 2.75 | 2.92 | 2.83 | 2.92 | 3.00 | 2.91 |
| MA3207 | 3.17 | 3.17 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.25 | 3.23 |
| PH3206 | 2.75 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | 2.75 | 2.69 |
| CY3206 | 2.08 | 2.00 | 1.92 | 2.08 | 1.92 | 2.08 | 1.92 | 2.00 | 2.00 |
| CS3241 | 2.50 | 2.50 | 2.50 | 2.42 | 2.58 | 2.50 | 2.50 | 2.42 | 2.49 |
| PH3240 | 2.33 | 2.50 | 2.33 | 2.50 | 2.33 | 2.42 | 2.50 | 2.42 | 2.42 |
| CY3242 | 2.08 | 2.00 | 2.17 | 2.17 | 2.00 | 2.17 | 2.00 | 2.08 | 2.08 |
| CS3031 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 |
| CS3032 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 | 3.50 |
| CS3004 | 2.33 | 2.33 | 2.67 | 2.33 | 2.50 | 2.50 | 2.50 | 2.33 | 2.44 |
| HU3202 | 2.83 | 2.75 | 2.92 | 2.83 | 2.92 | 2.83 | 2.92 | 2.92 | 2.86 |
| Total Avg. :- | 2.69 | 2.68 | 2.73 | 2.70 | 2.72 | 2.71 | 2.72 | 2.70 | 2.71 |

Student Feedback Chart - 2nd Semester

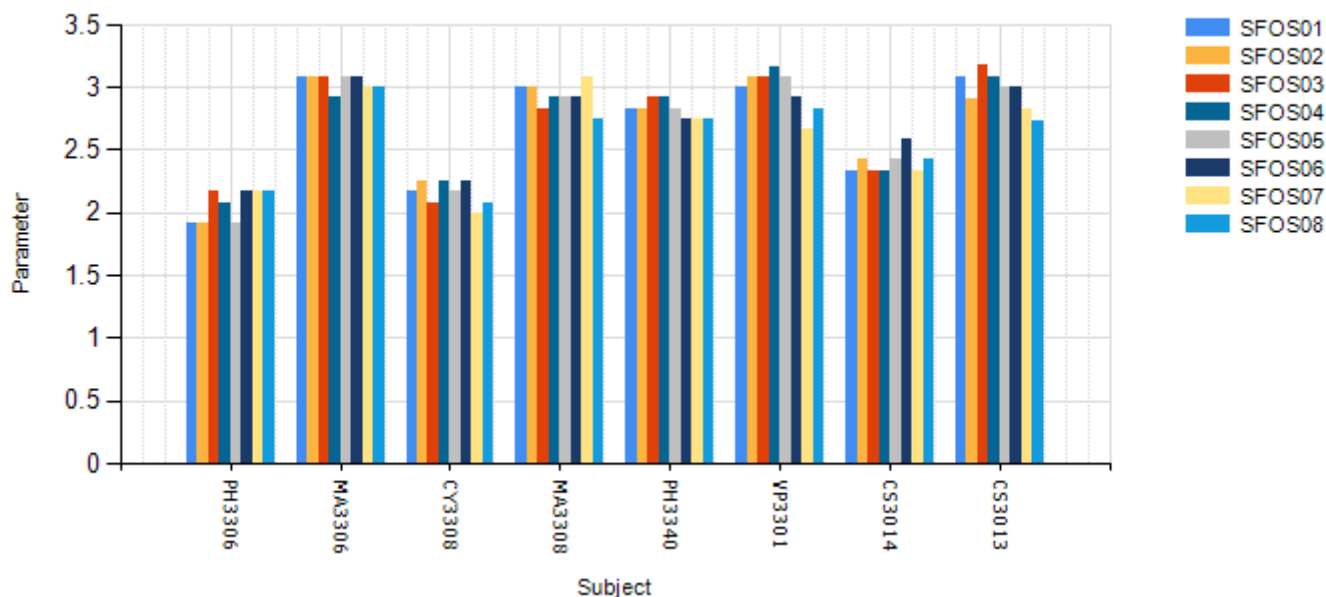



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3rd Semester 2022-23
No of Students: 13

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| PH3306 | 1.92 | 1.92 | 2.17 | 2.08 | 1.92 | 2.17 | 2.17 | 2.17 | 2.06 |
| MA3306 | 3.08 | 3.08 | 3.08 | 2.92 | 3.08 | 3.08 | 3.00 | 3.00 | 3.04 |
| CY3308 | 2.17 | 2.25 | 2.08 | 2.25 | 2.17 | 2.25 | 2.00 | 2.08 | 2.16 |
| MA3308 | 3.00 | 3.00 | 2.83 | 2.92 | 2.92 | 2.92 | 3.08 | 2.75 | 2.93 |
| PH3340 | 2.83 | 2.83 | 2.92 | 2.92 | 2.83 | 2.75 | 2.75 | 2.75 | 2.82 |
| VP3301 | 3.00 | 3.08 | 3.08 | 3.17 | 3.08 | 2.92 | 2.67 | 2.83 | 2.98 |
| CS3014 | 2.33 | 2.42 | 2.33 | 2.33 | 2.42 | 2.58 | 2.33 | 2.42 | 2.40 |
| CS3013 | 3.09 | 2.91 | 3.18 | 3.09 | 3.00 | 3.00 | 2.82 | 2.73 | 2.98 |
| Total Avg. :- | 2.68 | 2.69 | 2.71 | 2.71 | 2.68 | 2.71 | 2.60 | 2.59 | 2.67 |

Student Feedback Chart - 3rd Semester

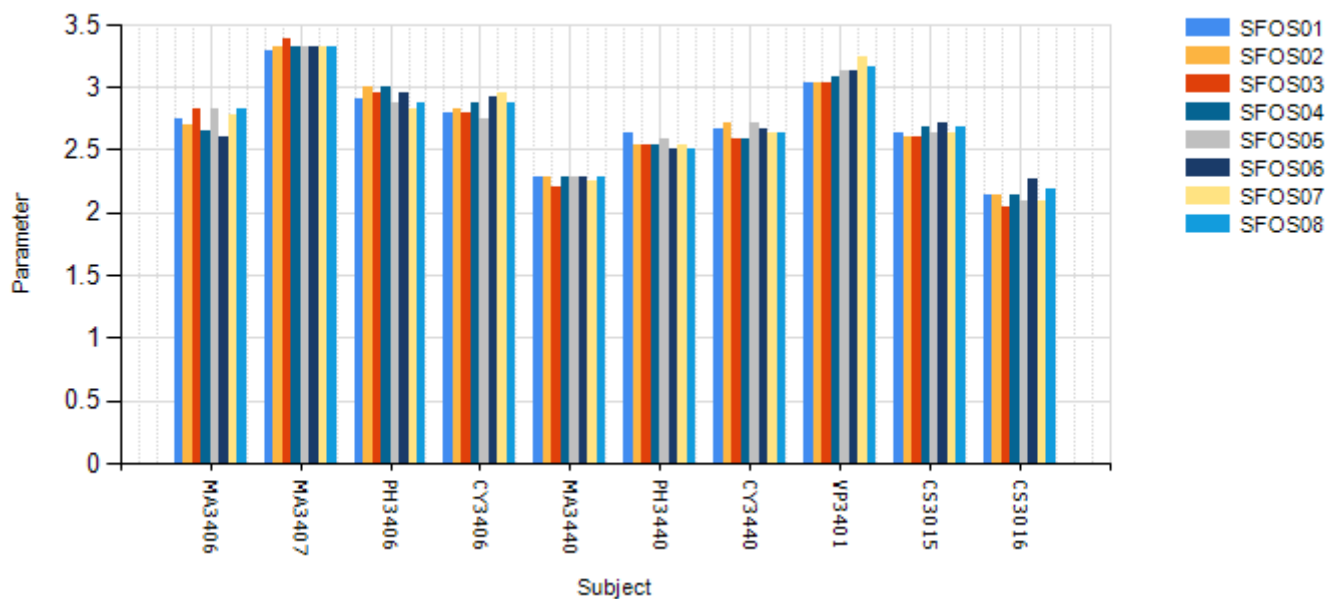



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4th Semester 2022-23
No of Students: 13

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| MA3406 | 2.74 | 2.70 | 2.83 | 2.65 | 2.83 | 2.61 | 2.78 | 2.83 | 2.74 |
| MA3407 | 3.29 | 3.33 | 3.38 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 | 3.33 |
| PH3406 | 2.91 | 3.00 | 2.96 | 3.00 | 2.87 | 2.96 | 2.83 | 2.87 | 2.92 |
| CY3406 | 2.79 | 2.83 | 2.79 | 2.88 | 2.75 | 2.92 | 2.96 | 2.88 | 2.85 |
| MA3440 | 2.29 | 2.29 | 2.21 | 2.29 | 2.29 | 2.29 | 2.25 | 2.29 | 2.28 |
| PH3440 | 2.63 | 2.54 | 2.54 | 2.54 | 2.58 | 2.50 | 2.54 | 2.50 | 2.55 |
| CY3440 | 2.67 | 2.71 | 2.58 | 2.58 | 2.71 | 2.67 | 2.63 | 2.63 | 2.65 |
| VP3401 | 3.04 | 3.04 | 3.04 | 3.08 | 3.13 | 3.13 | 3.25 | 3.17 | 3.11 |
| CS3015 | 2.64 | 2.60 | 2.60 | 2.68 | 2.64 | 2.72 | 2.64 | 2.68 | 2.65 |
| CS3016 | 2.14 | 2.14 | 2.05 | 2.14 | 2.09 | 2.27 | 2.09 | 2.18 | 2.14 |
| Total Avg. :- | 2.71 | 2.72 | 2.70 | 2.72 | 2.72 | 2.74 | 2.73 | 2.74 | 2.72 |

Student Feedback Chart - 4th Semester

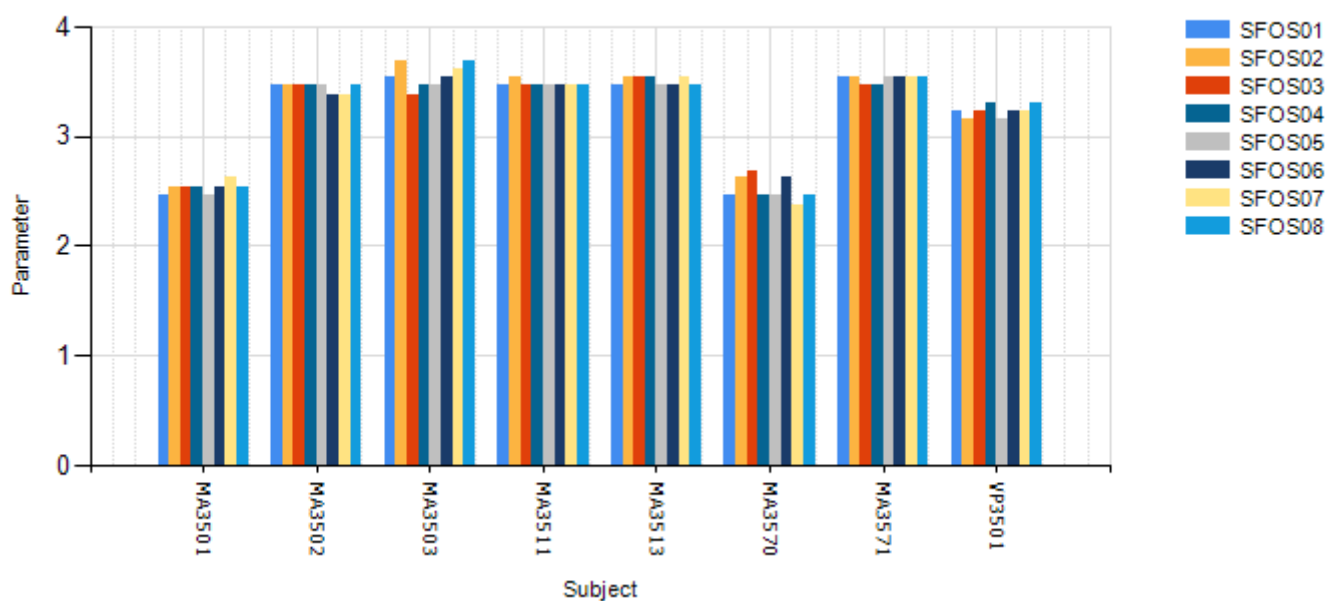



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5th Semester 2022-23
No of Students: 13

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| MA3501 | 2.46 | 2.54 | 2.54 | 2.54 | 2.46 | 2.54 | 2.62 | 2.54 | 2.53 |
| MA3502 | 3.46 | 3.46 | 3.46 | 3.46 | 3.46 | 3.38 | 3.38 | 3.46 | 3.44 |
| MA3503 | 3.54 | 3.69 | 3.38 | 3.46 | 3.46 | 3.54 | 3.62 | 3.69 | 3.55 |
| MA3511 | 3.46 | 3.54 | 3.46 | 3.46 | 3.46 | 3.46 | 3.46 | 3.46 | 3.47 |
| MA3513 | 3.46 | 3.54 | 3.54 | 3.54 | 3.46 | 3.46 | 3.54 | 3.46 | 3.50 |
| MA3570 | 2.46 | 2.62 | 2.69 | 2.46 | 2.46 | 2.62 | 2.38 | 2.46 | 2.52 |
| MA3571 | 3.54 | 3.54 | 3.46 | 3.46 | 3.54 | 3.54 | 3.54 | 3.54 | 3.52 |
| VP3501 | 3.23 | 3.15 | 3.23 | 3.31 | 3.15 | 3.23 | 3.23 | 3.31 | 3.23 |
| Total Avg. :- | 3.20 | 3.26 | 3.22 | 3.21 | 3.18 | 3.22 | 3.22 | 3.24 | 3.22 |

Student Feedback Chart - 5th Semester

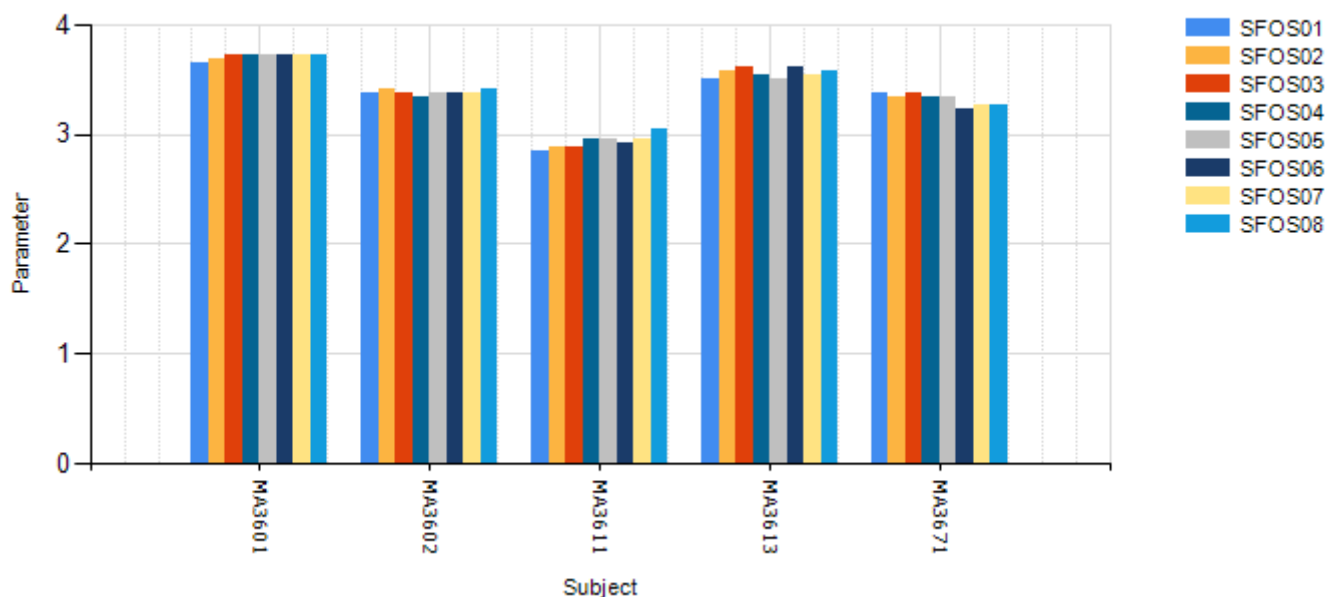



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6th Semester 2022-23
No of Students: 13

| Subject Code | SFOS01 | SFOS02 | SFOS03 | SFOS04 | SFOS05 | SFOS06 | SFOS07 | SFOS08 | Total Avg. |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| MA3601 | 3.65 | 3.69 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.72 |
| MA3602 | 3.38 | 3.42 | 3.38 | 3.35 | 3.38 | 3.38 | 3.38 | 3.42 | 3.39 |
| MA3611 | 2.85 | 2.88 | 2.88 | 2.96 | 2.96 | 2.92 | 2.96 | 3.04 | 2.93 |
| MA3613 | 3.50 | 3.58 | 3.62 | 3.54 | 3.50 | 3.62 | 3.54 | 3.58 | 3.56 |
| MA3671 | 3.38 | 3.35 | 3.38 | 3.35 | 3.35 | 3.23 | 3.27 | 3.27 | 3.32 |
| Total Avg. :- | 3.35 | 3.38 | 3.40 | 3.39 | 3.38 | 3.38 | 3.38 | 3.41 | 3.38 |

Student Feedback Chart - 6th Semester




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Feedback on Curriculum (Students 2022-23)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| SFOC01 | 23.08 | 38.46 | 23.08 | 0 | 15.38 | 2.54 |
| SFOC02 | 38.46 | 30.77 | 15.38 | 0 | 15.38 | 2.77 |
| SFOC03 | 23.08 | 38.46 | 23.08 | 0 | 15.38 | 2.54 |
| SFOC04 | 15.38 | 53.85 | 15.38 | 0 | 15.38 | 2.54 |
| SFOC05 | 23.08 | 30.77 | 30.77 | 0 | 15.38 | 2.46 |
| SFOC06 | 15.38 | 53.85 | 15.38 | 0 | 15.38 | 2.54 |
| SFOC07 | 15.38 | 46.15 | 23.08 | 0 | 15.38 | 2.46 |
| SFOC08 | 30.77 | 38.46 | 15.38 | 0 | 15.38 | 2.69 |
| SFOC09 | 23.08 | 38.46 | 23.08 | 0 | 15.38 | 2.54 |
| SFOC10 | 15.38 | 53.85 | 15.38 | 0 | 15.38 | 2.54 |
| SFOC11 | 7.69 | 46.15 | 30.77 | 0 | 15.38 | 2.31 |
| SFOC12 | 30.77 | 38.46 | 23.08 | 0 | 7.69 | 2.85 |
| SFOC13 | 30.77 | 38.46 | 23.08 | 0 | 7.69 | 2.85 |
| SFOC14 | 15.38 | 61.54 | 15.38 | 0 | 7.69 | 2.77 |
| SFOC15 | 30.77 | 30.77 | 23.08 | 0 | 15.38 | 2.62 |
| SFOC16 | 30.77 | 38.46 | 15.38 | 7.69 | 7.69 | 2.77 |
| SFOC17 | 30.77 | 30.77 | 23.08 | 7.69 | 7.69 | 2.69 |
| SFOC18 | 23.08 | 46.15 | 15.38 | 7.69 | 7.69 | 2.69 |

Orientation at the beginning of the semester to inform you about different value added programs such as electives, Minor Program, Passion Program, and also about University rules & regulation.



Departmental Orientation to inform you about the course objectives and their outcomes, generic information about class representatives, student representatives, mentors, etc.



Clarity of Information given in advance by department about the trainings/ workshop, certifications, planned for the semester.



Participation of teachers and mentors to assist you in choosing the Electives/ Minor Program/ Passion Program in the semester.



Structure, comprehensiveness and relevance of the semester Curriculum.



Effectivity of the Curriculum in enhancing communication and presentation skills, critical thinking, team-work through Value Added Programs (VAP), presentations and peer group learning.

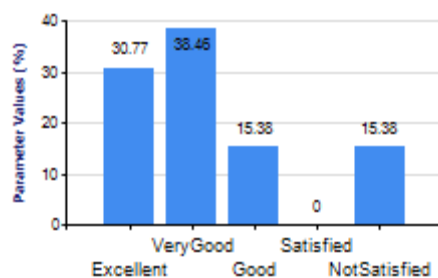



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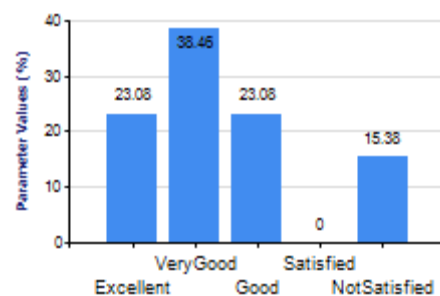
Effectivity of the Curriculum in developing analytical and problem solving skills through mini project works, flipped classes and research based assignments, case studies, et



Selection of Lab Practicals, and assignments in the curriculum to complement theory classes during the semester



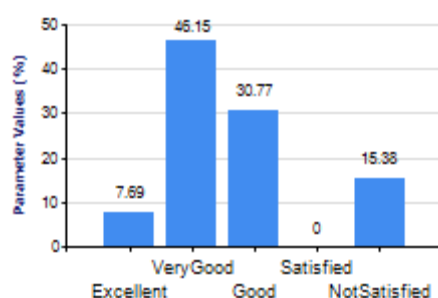
Consistency, quality and duration of labs through the semester.



Effectivity of the Curriculum to create awareness on National and international issues like gender equality, environment, human values, wellness etc.



Effectivity of the Curriculum in developing ICT and communication skills



Relevance of the curriculum to real life situations, current trends and practices in the respective discipline.



Effectivity of the curriculum in ensuring job related skills through trainings/workshops/internships/industry connect and in providing standardised certification (Only for Sr. batches).



Effectivity of inter-disciplinary components of the curriculum such as Minors and Open Electives in enhancing the range of your skills and competencies (if any)



Enrichment brought to you through various Co-curricular Passion Programs, Campus Clubs and Societies and also various Extra Curricular activities.



Learning experience of MOOC/ Swyam/other online portals and Industry collaborated Programs as a part of curriculum (If applicable)



Quality of examination/appraisal/assessment of the students through quizzes, assignments, written examinations, project works, presentations, submissions, etc.



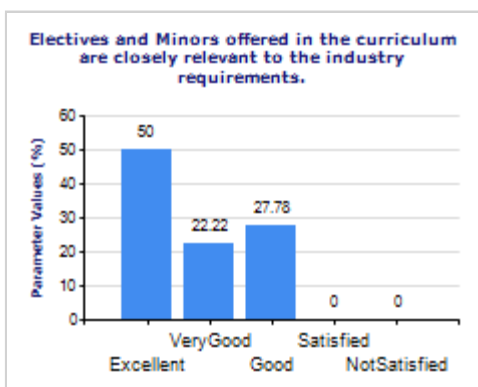
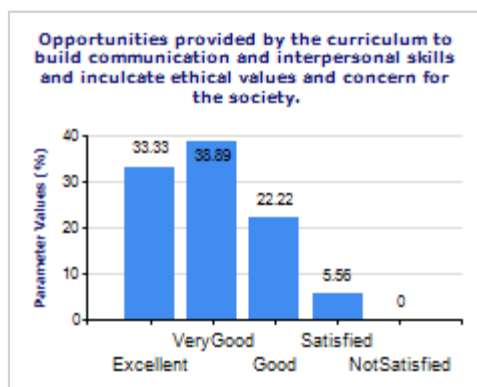
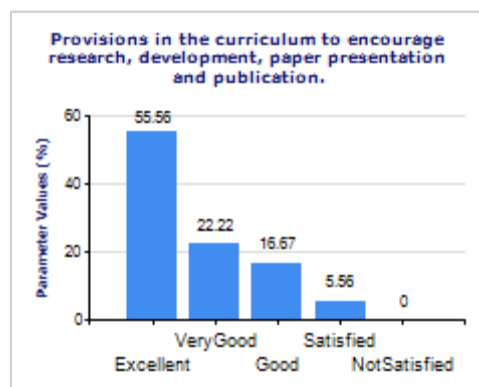
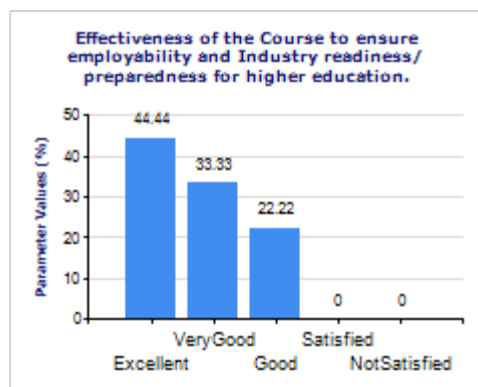
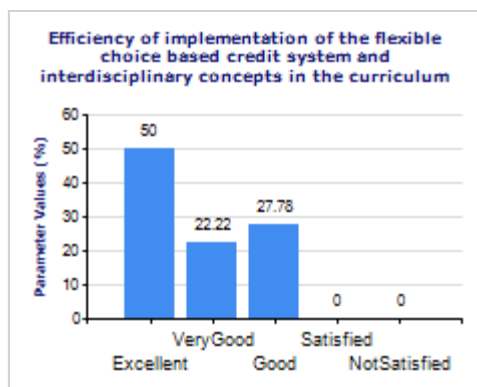
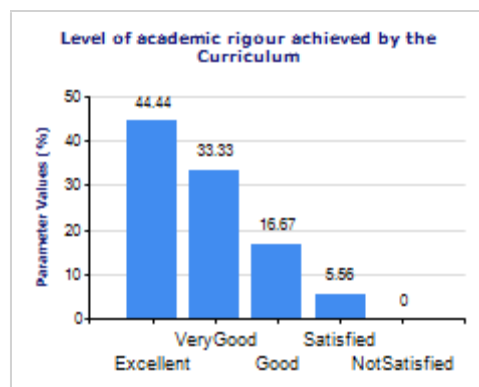
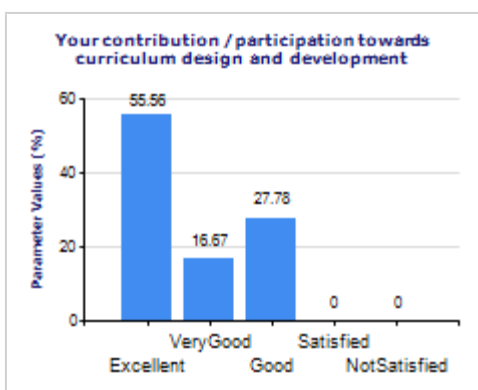
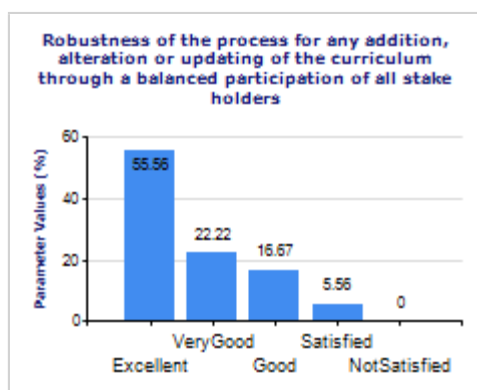
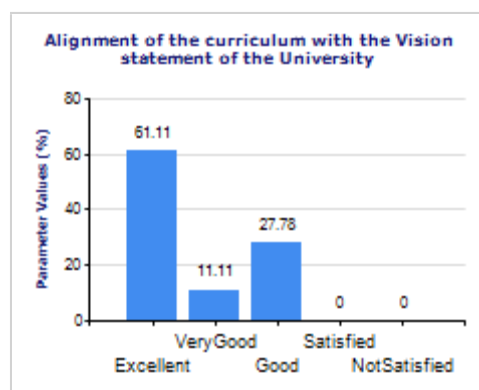
Over all learning experience in the semester in the light of your expectations




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Feedback on Curriculum (Teachers 2022-23)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| TFOC01 | 61.11 | 11.11 | 27.78 | 0 | 0 | 3.33 |
| TFOC02 | 55.56 | 22.22 | 16.67 | 5.56 | 0 | 3.28 |
| TFOC03 | 55.56 | 16.67 | 27.78 | 0 | 0 | 3.28 |
| TFOC04 | 44.44 | 33.33 | 16.67 | 5.56 | 0 | 3.17 |
| TFOC05 | 50 | 22.22 | 27.78 | 0 | 0 | 3.22 |
| TFOC06 | 44.44 | 33.33 | 22.22 | 0 | 0 | 3.22 |
| TFOC07 | 55.56 | 22.22 | 16.67 | 5.56 | 0 | 3.28 |
| TFOC08 | 33.33 | 38.89 | 22.22 | 5.56 | 0 | 3 |
| TFOC09 | 50 | 22.22 | 27.78 | 0 | 0 | 3.22 |
| TFOC10 | 44.44 | 27.78 | 27.78 | 0 | 0 | 3.17 |




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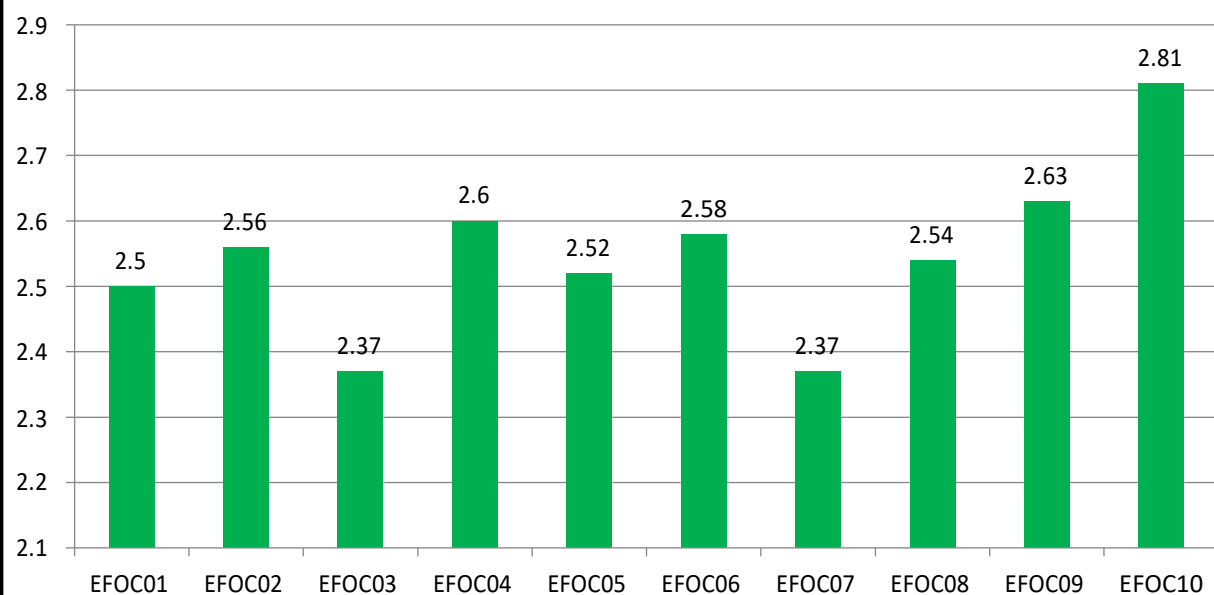
Emphasis on issues of national and international importance like Gender Equality, Environment, Ethics and Human values through group learning techniques in the curriculum and teaching pedagogy.



Feedback on Curriculum (Employer 2022-23)

| Parameters | Average Responses |
|------------|-------------------|
| EFOC01 | 2.5 |
| EFOC02 | 2.56 |
| EFOC03 | 2.37 |
| EFOC04 | 2.6 |
| EFOC05 | 2.52 |
| EFOC06 | 2.58 |
| EFOC07 | 2.37 |
| EFOC08 | 2.54 |
| EFOC09 | 2.63 |
| EFOC10 | 2.81 |

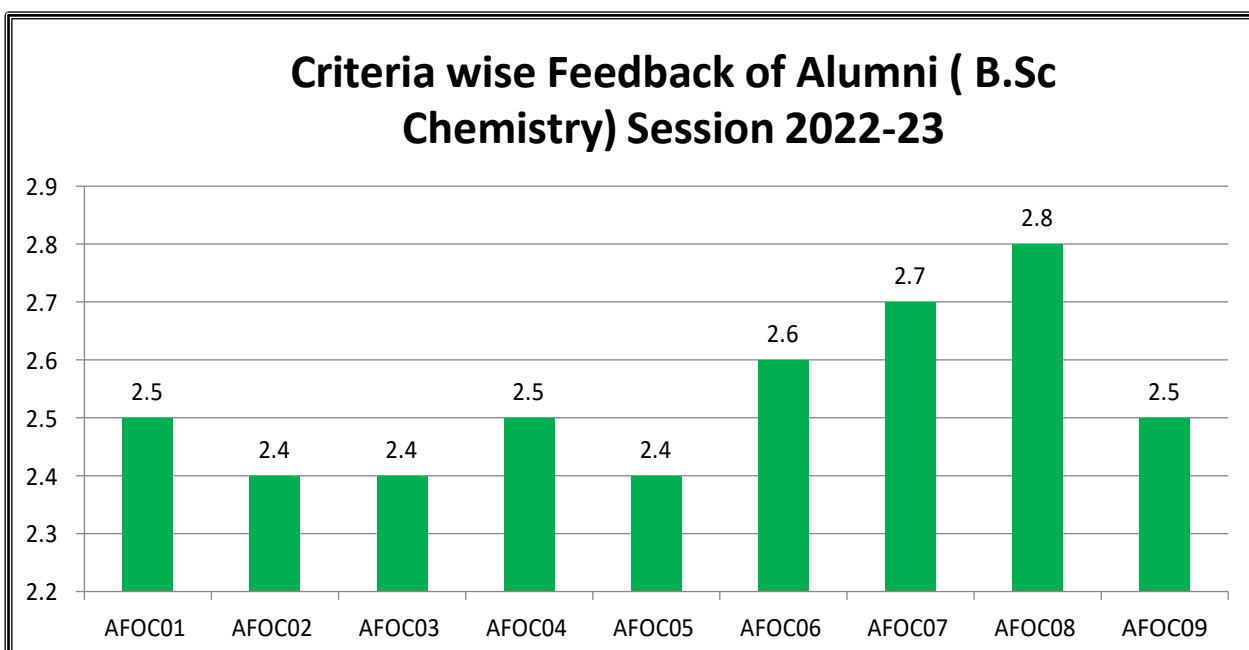
Criteria-wise Feedback (Curriculum) of Employers and Peers (Session 2022-23)




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Feedback on Curriculum (Alumni 2022-23)

| Parameters | Average Response |
|------------|------------------|
| AFOC01 | 2.5 |
| AFOC02 | 2.4 |
| AFOC03 | 2.4 |
| AFOC04 | 2.5 |
| AFOC05 | 2.4 |
| AFOC06 | 2.6 |
| AFOC07 | 2.7 |
| AFOC08 | 2.8 |
| AFOC09 | 2.5 |




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**Action Suggested by Internal Quality Assurance Cell
on the basis of Student's Feedback (on Courses) and the Feedback (Students, Teachers, Employers and Alumni) Feedback on Curriculum**

(Action suggested to all the reference parameters below $M+\sigma$, where M is mean and σ is standard deviation of the average rating of reference parameters)

Feedback on Curriculum (Students 2022-23)

List of reference parameters for action (below $M+\sigma < 2.6$)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| SFOC01 | 23.08 | 38.46 | 23.08 | 0 | 15.38 | 2.54 |
| SFOC03 | 23.08 | 38.46 | 23.08 | 0 | 15.38 | 2.54 |
| SFOC04 | 15.38 | 53.85 | 15.38 | 0 | 15.38 | 2.54 |
| SFOC05 | 23.08 | 30.77 | 30.77 | 0 | 15.38 | 2.46 |
| SFOC06 | 15.38 | 53.85 | 15.38 | 0 | 15.38 | 2.54 |
| SFOC07 | 15.38 | 46.15 | 23.08 | 0 | 15.38 | 2.46 |
| SFOC09 | 23.08 | 38.46 | 23.08 | 0 | 15.38 | 2.54 |
| SFOC10 | 15.38 | 53.85 | 15.38 | 0 | 15.38 | 2.54 |
| SFOC11 | 7.69 | 46.15 | 30.77 | 0 | 15.38 | 2.31 |

Feedback on Curriculum (Teachers 2022-23)

List of reference parameters for action (below $M+\sigma < 3.2$)

| Parameter | Excellent | Very Good | Good | Satisfied | Not Satisfied | Average Rating |
|-----------|-----------|-----------|-------|-----------|---------------|----------------|
| TFOC04 | 44.44 | 33.33 | 16.67 | 5.56 | 0 | 3.17 |
| TFOC08 | 33.33 | 38.89 | 22.22 | 5.56 | 0 | 3 |
| TFOC10 | 44.44 | 27.78 | 27.78 | 0 | 0 | 3.17 |

Feedback on Curriculum (Employer 2022-23)

List of reference parameters for action (below $M+\sigma < 2.5$)

| Parameters | Average Responses |
|------------|-------------------|
| EFOC03 | 2.37 |
| EFOC07 | 2.37 |

Feedback on Curriculum (Alumni 2022-23)

List of reference parameters for action (below $M+\sigma < 2.5$)

| Parameters | Average Response |
|------------|------------------|
| AFOC02 | 2.4 |
| AFOC03 | 2.4 |
| AFOC05 | 2.4 |


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| | Reference Parameters Requiring Action | | Ref No | Recommendations of SSG of the Department |
|---------------------------------|--|---------------------------------|--------|--|
| Curriculum Feedback by Students | SFOC01 (2.54) SFOC03 (2.54) SFOC04 (2.54) | Elaborative Orientation Program | R-1 | Orientation program should be made interesting and informative. |
| | SFOC05 (2.46) TFOC04 (3.17) | Course Quality and Relevance | R-2 | Teaching learning process should be innovative and need effective course delivery It is required to supply the different handouts of virtual laboratory, reference materials (like PPT, videos, Books etc) must be given to the class students previously. To improve the quality of content, lecture delivery with real world examples related to the topics. Faculty need to prepare the interactive and planned contents for the delivery of lecture during class room lecture. Faculty must impart the information of new research currently going on with the subject related topics. The course structure must be mapped (like lab plan, BL level, class notes etc) in ERP or other modern electronic tools by the faculty PH3106, PH3141, CS3202, MA3207, PH3241, CS3241, PH3306, MA3308, PH3340, CY3406, MA3406, PH3440, MA3440, PH3542, PH3670 |
| | SFOC06 (2.54) | Peer Group Learning | R-3 | A2 assignments should be Mini project/ Research paper based for fast learners & topics based for slow learners |
| | SFOC07 (2.46) SFOC12 (2.31) TFOC08 (3) EFOC07 (2.37) | Effective Communication System | R-4 | Online Group discussion & resume building training needed for sciences students. Students must be giving presentations on any topic in every individual course given by faculties. |
| | SFOC09 (2.54) | IT Enabled Literacy | R-5 | Use of virtual lab related to the courses for online protocols. Tying up with learning virtual lab platforms like Coursera, NPTEL, IBM etc. |
| | SFOC10 (2.54) TFOC10 (3.17) AFOC05 (2.4) AFOC03 (2.4) | Guest Lectures/ Workshop | R-6 | More guest lectures, Seminars & Workshops should be required for science students For Depth knowledge of the subject. |


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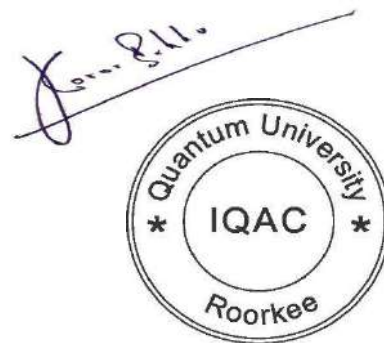
| | | | | |
|--|------------------|------------------------|-----|--|
| | EFOC03 (2.37) | Training for Placement | R-7 | For grooming the personality of the students required two or three-week online training programs should be organized on Technical Skills. Industrial Seminars & Workshops should be organized. |
|--|------------------|------------------------|-----|--|

Additional Recommendations given by SSG towards Vision and Mission of the Department

| | | | | |
|---------------------------|--|-----------------------------------|------|---|
| Additional Recommendation | | FDPs | AR-1 | Need advanced training (working on online teaching / learning app.) of teachers for online protocols during COVID-19. |
| | | Overall Teaching Learning Process | AR-2 | Teaching Skills should be improved through hands-on workshop. Need continuous evaluation of the student. Pattern of Exam with new examination schemes as suggested by UAC (like more online videos related to subjects, Online Quiz for lab and theory, open book exam etc.) Students should be encouraged for participation on line competitions at international/National of repute. |



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Karan Babbar
Coordinator, IQAC