

### FEEDBACK ANALYSIS REPORT OF STAKEHOLDERS (2021-22)

### FEEDBACK SUMMARY AND ACTIONS TAKEN/RECOMMENDED AT 19TH BOS

### Department of Biological Sciences, Faculty of Science

Total 195 feedback inputs were obtained from various stake holders like BSc and MSc exit batch students, teachers, academic peers, industry associates as well as alumni, regarding curriculum and pedagogy adopted at Department of Biological Sciences, PDPIAS. Feedback from the academic peers and industry experts shall be further emphasized upon at the time of the upcoming syllabus revision

### **Outline and Summary:**

- 1. Majority of the students are satisfied and appreciative of the curriculum, teaching-learning experience and counselling process.
- 2. The students have also appreciated the opportunities and facilities for sports and extra-curricular activities and expressed their satisfaction over the same.
- 3. Alumni feedback is largely encouraging; mainly suggesting increased focus on fundamental practicals in the curriculum.
- 4. Most faculty members are appreciative of the UG and PG syllabus. Enhanced incorporation of industrial visits or industry-oriented components has been suggested.

Sr No	Feedback	Actions suggested/taken at 19 <sup>th</sup> BoS meeting
Feedb	ack from BSc students	
1	Infrastructure related issues: Need to keep neat and hygienic girls common room and washroom and handwash in every washroom. Also need to keep classrooms clean and sweep regularly.	A dedicated housekeeping team is already appointed for the routine upkeep of the utilities. The same has been informed to the concerned in-charges and the Principal's office.
2	Network issues on campus need to be addressed Better facilities at computer lab are requested	The matter has been conveyed to concerned in-charges as well as the Principal's office. A follow-up for the improvement of the same shall be taken. BoS members were updated about it
3	Study material for every subject to be provided	The study material for most subjects are provided by the teachers in terms of hand-outs, ppt files or other lecture notes through MS Teams. Several faculty members also consider uploading recorded lectures. The emphasis is on usage of the library for obtaining more reading material, as this is considered to be the interest of the students' development. The BoS members were updated about the same
4	Examinations test only remembering and does not focus on understanding concepts.	The question papers for both internal and external exams are set to ensure a balance between the elements of Bloom's taxonomy where remembering and hence the memory-based questions are balanced with analytical or logical questions. However, this



		practice would be further consolidated based on the
5	Most other feedbacks largely express satisfaction and appreciation over the academics, curriculum, teaching-learning experience and avenues for co- and extra-curricular activities	feedback  The BoS noted the overall appreciation received from the BSc students
Feed	back for MSc students	
6	Other activities should be included in the department. And other festivals or event should be organized for the students for environmental change.	A range of opportunities are already available on campus for pursuing the extracurricular component. Further enhancement in the same has been considered while devising the new teaching schemes.
7	There should be practical sessions if elective subjects are practical based.	This suggestion would be considered while designing the new curriculum. Attempt shall be further made to improve lab exposure in practical-based subjects.
8	Wifi and internet facility needs improvement	The matter has been conveyed to concerned in-charges as well as the Principal's office. A follow-up for the improvement of the same shall be taken.
9	Non-teaching staff needs to be more professional in terms of communication with students.	This aspect shall be addressed while designing training sessions for the non-teaching staff
10	Industrial visit & trips should be organized	This aspect has been considered well while designing the new curriculum and the same has been discussed with the BoS members.
Feed	back from Teachers/Industry/Academic Peers	S
11	Prepare the syllabus to give them a holistic view about science. Which can make them think logically. Question paper should have more concept-based questions	The syllabus for UG and PG are largely evolved to include scientific advancements, skill development as well as holistic aspects. The Foundation Course is an attempt to impart some holistic view about science. Besides, case studies and presentations also cover such aspects.
		The question papers for both internal and external exams are set to ensure a balance between the elements of Bloom's taxonomy. Thus, memory-based questions are balanced with analytical/concept-based questions. However, this practice would be further consolidated based on the feedback
12	Commercial mathematics and statistics in the curriculum to be included and enhanced	This suggestion has been duly discussed in BoS. The newly designed curriculum has proposed inclusion of courses like Essential Skills in Mathematics and Biostatistics, which could be further enhanced as suggested.
13	In the last Semester component of industrial training/ project can be included.	Existing and newly proposed syllabi for PG programs have a compulsory dissertation component.
		Industrial tour, field-visits and research projects have been introduced in UG curriculum, in lines with NEP recommendations



14	Faculties of Biological Science Department	The BoS noted the acknowledgement and appreciation
	are good at evidence based teaching practices which motivate students.	received
15	Add new courses in MSc Microbiology	New curricula for UG and PG programs in Microbiology have introduced several newer courses to enrich the
		subject diversity covered. This was discussed in the BoS
16	Industrial Microbiology and Bioprocess engineering appropriately includes fermentative production of primary as well as secondary metabolites. This course also addresses recent advancement in the field including use of Recombinant DNA technology for the commercial production of various metabolites. It also includes basic aspects on IPR and Patenting. The course is very meticulously designed by incorporating all the aspects related to this course	The BoS noted the acknowledgement and appreciation received
Feedb	ack from Alumni	
17	The course should focus onto improvising logical reasoning and analogy questions in the subject.	The continuous evaluation components as well as external examination include a balance between the elements of Bloom's taxonomy. Thus, memory-based questions are balanced with analytical/logical questions. Several components like seminars, casestudies and dissertation further allow analogy-based study.
		Revision of the curricula undertaken has considered this aspect more emphatically
18	It is great that powerpoint presentations are provided for the topics, in that way one can follow in the class and not worry about missing out some important points but reading subject related books should be emphasized for in depth knowledge of the subject.	This feedback was well-noted. The BoS members also resonated with the same. Efforts are already made to encourage use of books by sharing concise and selected course materials. The pedagogical changes shall be planned to enhance the usage of books for better knowledge.
19	Can we please add more detailed molecular biology. In the subject where we teach different methods like SDS page, we should also include cloning in detail and also new and advanced technique should be made known like CRISPR/Cas9. There should also be practicals involving tissue culture techniques of both plants and animals.	The curriculum has included the suggested technique of cloning in the Genetic Engineering practicals. The recent advances of CRISPR/Cas9 and equivalent developments are discussed through theory subject like Omics Technologies and Bioinformatics in MSc programs.  Newly revised curriculum has taken this aspect into consideration
20	Need to increase the industrial visits and trainings to gain the actual working knowledge in the industries. Can invite some industrial senior people as guest lecturer.	Industrial tour, field-visits and research projects have been introduced in UG curriculum, in lines with NEP recommendations







### FEEDBACK ANALYSIS (%) - BSc EXIT SURVEY - 2022

Curriculum developed and implemented has relevance to local, national, regional and global development needs.  Curriculum sha broad enough to prepare you for career of choice.  Curriculum integrates crosscutting issues relevant to processional ethics, gender, human values, environment and sustainability.  The learning was supplemented by co-curriculura rativities such as course work outside the curriculum, project work, internships, workshops, conference, symposia etc.  Audiovisual learning resources provided by teachers facilitated you to improve learning.  Reading material and other learning resources provided by teachers facilitated you to improve learning.  Reading material and other learning resources provided by teachers facilitated you to improve learning.  Reading material and other learning resources provided by teachers facilitated you to improve learning.  Reading material and other learning resources provided by teachers facilitated you to improve learning.  32 34 30 5 0  Hands-on practice in laboratories and project work facilitated in overall development, inculcating skills and time management.  Academic activities facilitate you to improve experiential learning, participative learning and problem-solving methodology.  Evaluation pattern (Unit Test, Assignment, and Presentation) made you capable of analyzing your strength & weakness, and empowered you to use resources effectively.  45 27 21 6 1  Institution has an eco-system to promote research and other initiatives for creationand transfer of knowledge.  36 40 21 2 1  Institution has adequate facility to carry out research.  44 32 23 1 0  Workshops/seminars on research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development are organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching & learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Teachin	Parameter	117-22 - 1782			1	The second secon
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empowered you to use resources effectively.  The overall experience would help you to engage in independent and life-long learning in the broadest context of technological change.  37 34 23 6 0  Institution has an eco-system to promote research and other initiatives for creationand transfer of knowledge.  Institution has adequate facility to carry out research.  Workshops/seminars on research methodology, Intellectual  Property Rights (IPR), entrepreneurship, skill development are organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching â€" learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  45 27 21 6 1  1 2 2 1  1 2 1  1 2 1  1 3 0  2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
The overall experience would help you to engage in independent and life-long learning in the broadest context of technological change.  Institution has an eco-system to promote research and other initiatives for creationand transfer of knowledge.  Institution has adequate facility to carry out research.  Workshops/seminars on research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development are organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching â€″ learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.						
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change. 37 34 23 6 0  Institution has an eco-system to promote research and other initiatives for creationand transfer of knowledge. 36 40 21 2 1  Institution has adequate facility to carry out research. 44 32 23 1 0  Workshops/seminars on research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development are organized regularly. 39 28 31 3 0  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly. 51 22 24 2 0  The institute has adequate facilities for Teaching â€″ learning viz. audiovisual amenities, classrooms, laboratories. 43 36 19 2 0  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium 37 32 26 5 1  The institute has adequate LAN, WiFi and Internet Facility 18 19 27 27 9  The institute has adequate and hygienic canteen and food facilities. 35 34 26 5 1  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant. 59 21 16 3 0						
Institution has an eco-system to promote research and other initiatives for creationand transfer of knowledge.  Institution has adequate facility to carry out research.  Workshops/seminars on research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development are organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching â€″ learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.						
initiatives for creationand transfer of knowledge.  Institution has adequate facility to carry out research.  Workshops/seminars on research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development are organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching â€" learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  36  40  21  2  1  0  23  1  0  24  2  0  7  2  1  2  1  1  0  2  1  1  2  1  1  1  1  1  1  1  1  1		37	34	23	6	0
Institution has adequate facility to carry out research.  Workshops/seminars on research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development are organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching â€″ learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  44 32 23 1 0  0  24 2 0  25 24 2 0  0  16 5 1  17 27 9  18 19 27 27 9  18 19 27 27 9  19 27 27 9  26 5 1  27 9  28 31 3 0						
Workshops/seminars on research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development are organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching â€" learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  59  21  16  3  0				21	2	1
Property Rights (IPR), entrepreneurship, skill development are organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching – learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  2 2 2 4 2 0  2 4 2 0  2 5 1  2 7 9  2 7 9  2 7 9  2 7 9  2 8 31 3 0		44	32	23	1	0
organized regularly.  Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching â€" learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.						
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Education etc.) are conducted regularly.  The institute has adequate facilities for Teaching â€″ learning viz. audiovisual amenities, classrooms, laboratories.  43 36 19 2 0  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  37 32 26 5 1  The institute has adequate LAN, WiFi and Internet Facility  18 19 27 27 9  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  59 21 16 3 0		39	28	31	3	0
The institute has adequate facilities for Teaching – learning viz. audiovisual amenities, classrooms, laboratories.  The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.  The institute has adequate and hygienic canteen and food facilities.						
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The institute has adequate facilities for Cultural activities, yoga, games (Indoor and outdoor), sports and gymnasium  37 32 26 5 1 The institute has adequate LAN, WiFi and Internet Facility 18 19 27 27 9 The institute has adequate and hygienic canteen and food facilities. Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  59 21 16 3 0						
games (Indoor and outdoor), sports and gymnasium  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  Solar protection of the control of the c		43	36	19	2	0
The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate LAN, WiFi and Internet Facility  The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  The institute has adequate LAN, WiFi and Internet Facility  35  34  26  5  1  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.						
The institute has adequate and hygienic canteen and food facilities.  Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  Solar restance and hygienic canteen and food facilities.  35 34 26 5 1  26 5 1 27 28 39 20 30 30 30 30 30 30 30 30 30 30 30 30 30		37	32	26	5	1
Campus Ambience (Greenery, Environment friendly eco system, usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  59 21 16 3 0	·	18	19	27	27	9
usage of solar lights, saving of electivity, production of electricity, working space) is pleasant.  59 21 16 3 0		35	34	26	5	1
working space) is pleasant. 59 21 16 3 0	Campus Ambience (Greenery, Environment friendly eco system,					
Adamata lagratian against 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Adequate learning resources are available in library. 45 35 17 3 0		59	21	16	3	0
	Adequate learning resources are available in library.	45	35	17	3	0

OF APPLIED SCIENCES

Active student council exists and students are involved in activities					
for institutional development and student welfare.	40	32	27	1	1
Institution timely resolves the grievances including sexual					
harassment and ragging cases	50	30	17	3	0
Counseling helped in assessing learning level of students, leading to					
customized attention to needy students.	42	33	21	2	2
Institution encourages and provides support to participate in			y-sommerce and a second property of the secon		
national and international events.	44	30	21	4	1
Capacity development and skills enhancement activities are					
organized regularly.	41	29	24	5	1
Adequate support is provided by Career Development and					
Placement Cell (CDPC).	32	30	31	8	0
The effective and transparent leadership is reflected in various					
institutional policies/ practices.	35	34	30	1	1
Management of Institution follows "Equal Opportunity†for all	34	33	24	7	2
Institute felicitates achievement of students through various modes.	41	31	26	3	0

### \* Total number of feedbacks obtained: 98

### Other Feedback

(1) Infrastructure related issues:

Need to keep neat and hygienic girls common room and washroom and handwash in every washroom.

Also need to keep classrooms clean and sweep regularly.

Network issues on campus need to be addressed

- (2) Better facilites at computer lab are requested
- (3) Study material for every subject to be provided
- (4) Examinations test only remembering and does not focus on understanding concepts.
- (5) Most other feedbacks largely express satisfaction and appreciation over the academics, curriculum, teaching-learning experience and avenues for co- and extra-curricular activites







### FEEDBACK ANALYSIS (%) - MSc EXIT SURVEY - 2022

			Dorsovi		
Parameter	Excellent	Very Good	Percent		Dalam America
Curriculum developed and implemented has relevance to local,	Excellent	very Good	Good	Average	Below Average
national, regional and global development needs.	38	33	28	1	
Curriculum was broad enough to prepare you for career of choice.	38	33	24	5	0
Curriculum integrates crosscutting issues relevant to processional	30	33		3	0
ethics, gender, human values, environment and sustainability.	41	33	25	1	0
The learning was supplemented by co-curricular activities such as	41	33	25	1	0
course work outside the curriculum, project work, internships,					
workshops, conference, symposia etc.	39	30	27	4	0
Audiovisual learning resources provided by teachers facilitated	33	30	21	+	0
you to improve learning.	34	43	20	,	0
Reading material and other learning resources provided by	34	43	20	3	0
teachers facilitated you to improve learning.	35	39	22		0
Hands-on practice in laboratories and project work facilitated in	33	39		4	0
overall development, inculcating skills and time management.	49	34	15	1	0
Academic activities facilitate you to improve experiential learning,	43	34	12	1	0
participative learning and problem-solving methodology.	37	39	23	1	0
Evaluation pattern (Unit Test, Assignment, and Presentation)	37	39		1	0
made you capable of analyzing your strength & weakness, and					
empowered you to use resources effectively.	39	39	19	3	0
., .,	39	39	19	3	0
and life-long learning in the broadest context of technological					
change.	33	46	19	3	0
Institution has an eco-system to promote research and other		les e			
initiatives for creationand transfer of knowledge.	41	41	19	0	0
Institution has adequate facility to carry out research.	39	33	28	0	0
Property Rights (IPR), entrepreneurship, skill development are					
organized regularly.	33	32	33	3	0
Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural					
Education etc.) are conducted regularly.	35	34	27	4	0
The institute has adequate facilities for Teaching â€" learning viz.					
audiovisual amenities, classrooms, laboratories.	44	37	18	1	0
The institute has adequate facilities for Cultural activities, yoga,					
games (Indoor and outdoor), sports and gymnasium	38	28	25	8	1
The institute has adequate LAN, WiFi and Internet Facility	27	20	27	16	10
The institute has adequate and hygienic canteen and food facilities	35	29	30	4	1
Campus Ambience (Greenery, Environment friendly eco system,	0				
usage of solar lights, saving of electivity, production of electricity,					
working space) is pleasant.	49	33	16	1	0
Adequate learning resources are available in library.	35	29	30	5	0
Active student council exists and students are involved in activities					
for institutional development and student welfare.	41	30	25	4	0
Institution timely resolves the grievances including sexual					
harassment and ragging cases	35	35	29	0	0
	0./	PLIED			

Counseling helped in assessing learning level of students, leading					
to customized attention to needy students.	38	33	28	1	0
Institution encourages and provides support to participate in					
national and international events.	38	33	27	3	0
Capacity development and skills enhancement activities are					
organized regularly.	32	34	30	3	1
Adequate support is provided by Career Development and					
Placement Cell (CDPC).	39	33	24	3	1
The effective and transparent leadership is reflected in various					
institutional policies/ practices.	37	34	27	3	0
Management of Institution follows "Equal Opportunity†for all	37	33	28	3	0
Institute felicitates achievement of students through various modes	41	33	25	1	0

<sup>\*</sup> Total number of feedbacks obtained: 79

### Other Feedback

- (1) Other activities should be included in the department. And other festivals or event should be organized for the students for environmental change.
- (2) There should be practical sessions if elective subjects are practical based.
- (3) Wifi and internet facility needs improvement
- (4) Industrial visit & trips should be organized







### P D PATEL INSTITUTE OF APPLIED SCIENCES **DEPARTMENT OF BIOLOGICAL SCIENCES FACULTY OF SCIENCE**

# ANALYSIS OF FEEDBACK ON CURRICULUM (INDUSTRY/ACADEMIC PEERS/TEACHERS)

Content of syllabus			TYCHIEIT	very Good	D005	Satisfactory	Satisfactory   Needs Improvement   Not applicable	Not applica
		B Sc	2 of 3					
		MSc	1 of 6	4 of 6	1 of 6			
2 Relevance of syllabus to industry/research requirements	stry/research requirements	B Sc		2 of 3				
		MSc	1 of 6	5 of 6				
3 Course outcomes are well defined	fined	B Sc	3 of 3					
		MSc	1 of 6	5 of 6		5		
4 Sufficient reading materials and digital resources provided	nd digital resources provided	B Sc	2 of 3					
		MSc	1 of 6	3 of 6	2 of 6			
5 Incorporation of advanced topics	pics	B.Sc	2 of 3					
		MSc		3 of 6	2 of 6	1 of 6		
6 Pedagogy proposed		B Sc	2 of 3					
		MSc		5 of 6		1 of 6		
7 Have a desired balance between theory and practical	en theory and practical	B Sc		2 of 3				
		MSc	1 of 6	4 of 6		1 of 6		
8 Assessment methods are fair, measuring the outcomes	measuring the outcomes	B Sc	3 of 3					
		MSc		5 of 6	1 of 6			
9 Project component in the course, if applicable:	ırse, if applicable:	B Sc						3 of 3
		MSc	1 of 6	2 of 6	1 of 6	1 of 6		1 of 6
Industrial training/practical exposure in the course, if applicable:	sure in the course, if applicable:	B Sc	2 of 3					
PP		MSc		1 of 6	3 of 6	1 of 6	1 of 6	

## SECURIOR Key and Other Feedback

	1 Prepare the syllabus to give them a holistic view about science. Which can make them think logically. Question paper should have more concept based questions
2	2   Commercial mathematics and statistics in the curriculum to be included and enhanced
3	3 In the last Semester component of industrial training/ project can be included.
4	4 Faculties of Biological Science Department are good at evidence based teaching practices which motivate students.
5	5 Add new courses in MSc Microbiology
	Industrial Microbiology and Bioprocess engineering appropriately includes fermentative production of primary as well as secondary metabolites. This course also addresses recent
	advancement in the field including use of Recombinant DNA technology for the commercial production of various metabolites.
9	It also include basic aspects on IPR and Patenting. The course is very meticulously designed by incorporating all the aspects related to this course.



### FACULTY OF SCIENCE P D PATEL INSTITUTE OF APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

CHARRUSAT CHARGIAN INNUSATION STINGS AND TICHOROCOX Accredited With "A" Grade by NAAC

# SUMMARY OF ALUMNI FEEDBACK - ACADEMIC YEAR 2021-22

		SOLUTION IN THE STATE OF THE ST	יובונו כו הבסויוויון בבסטבנה - הכהטבויוול ובאת 2021-22	INITE I LAN 2021-24	
Username	khushburathod.1210@g	charuchavda17@gmai patelkashyap721@g	patelkashyap721@g	henipatel1812hd	
	mail.com	l.com	mail.com	@gmail.com	vidhibhatt802@gmail.com
Name	Khushbu Rathod	Chandni Chavda	patel kashyap	Heni Patel	Vidhi Bhatt
Mobile Number	9724904989	6356281193	7016742095	9825227575	8460141825
Designation	Research Scholar	Junior Embryologist	Officer	Student	Research Scholar
Institute/Organisation		Morpheus life sciences Sun Pharmaceutical	Sun Pharmaceutical		
	-	Pvt Ltd	ltd	PDPIAS	P. D. Patel Institute of Applied Sciences, CHARUSAT
Feedback for the	Department of Biological Department of	Department of	Department of	Department of	
department	Sciences	Biological Sciences	Biological Sciences	Biological	Department of Biological Sciences
Feedback for the	Postgraduate course	Postgraduate course	Postgraduate course	Postgraduate	
Program	(M.Sc.)		(M.Sc.)	course (M.Sc.)	Postgraduate course (M.Sc.)
Feedback for the	All	Microbiology	Good Course	Microbiology	The course should focus onto improvising logical
course		3			reasoning and analogy questions in the subject.
1. Content of syllabus	Vervigood		Poor No.		
					vely good
z. Kelevance or			Very good	Very good	Very good
3. Course outcomes	Very good		Very good	Very good	Very good
4. Sufficient reading	Very good	Good	Very good	Very good	Satisfactory
5. Incorporation of	Good	Satisfactory	Very good	Very good	poog
6. Pedagogy proposed Very good	Very good	Satisfactory	Very good		poog
7. Have a desired	Excellent	Satisfactory	Very good		poog
8. Assessment	Excellent	Very good	Very good	Very good	Very good
	Very good	Satisfactory	Very good		poog
10. Industrial training/	Good	Needs Improvements	Poop	Poop	poog
Additional suggestions None	None	And new course	Poop	No	It is great that powerpoint presentations are
and remarks, if any:			-		provided for the topics, in that way one can follow in
	Ove:				the class and not worry about missing out some
					important points but reading subject related books
					should be emphasized for in depth knowledge of the subject.

Username	sagarsharma.ss376@gmail.com	divya2830patel@gmail.com	prashantkshatriya7@gmail, ptanvi200@gmail.c	ptanvi200@gmail.c om
Name	Sagar Sharma	DIVYA PATEL	Prashant Kshatriya	Tanvi Patel
Mobile Number	-729689716	+1 9202690438	9724739794	6353405714
Designation	P.hD. student	MASTER'S OF MICROBIOGY	Research Scientist	BIOTECHNOLOGY
Institute/Organisation	University of Silesia	P D PATEL INSTITUTE OF APPLIED SCIENCES	GIOSTAR Research Put. 1td PDPIAS	PUPIAS
Feedback for the department	Department of Biological Sciences	Densitment of Riological Sciences	Department of Biological	Department of
Feedback for the Program		organism of property of the pr	Postgraduate course	Dostaradinate
	Postgraduate course (M.Sc.)	Postgraduate course (M.Sc.)	(M.Sc.)	rosigiadudate course (M.Sc.)
Feedback for the course	Can we please add more detailed molecular	MICCROBIOLOGY	BioChemistry	Course taught in
	biology. In the subject where we teach different			the college is
	clonning in detail and also new and advanced			excellent, there is no need to do the
	techique should be made known like			changes.
	CRISPR/Cas9. There should also be practicles			Thank you.
	involving tissue culture techniques of both plants and animals.			
1. Content of syllabus	Satisfactory	Excellent	Very good	Excellent
2. Relevance of syllabus to	Needs Improvements	Excellent	Good	Excellent
3. Course outcomes are well	Good	Excellent	poog	Excellent
4. Sufficient reading materials	Very good	Excellent	Very good	Excellent
5. Incorporation of advanced	Needs Improvements	Excellent	Satisfactory	Excellent
6. Pedagogy proposed	Good	Excellent	рооб	Excellent
7. Have a desired balance	Satisfactory	Excellent	Poop	Excellent
8. Assessment methods are	Excellent	Very good	Very good	Excellent
9. Project component in the	Excellent	Excellent	дооб	Excellent
10. Industrial training/	Satisfactory	Very good	дооб	Excellent
Additional suggestions and	NA	PDPIAS is the best platform for all of the	a	No
remarks, it any:		biological sciences students. I highly	industrial visits and	
		recommend PDPIAS if someone wants to	trainings to gain the actual	
		pursue the degree of Microbiology or	working knowledge in the	
		biotechnology or biochemistry. Thank you	industries. Can invite some	
		to the all-faculty members for explaining	industrial senior people as	
		every single thing in detail and for	guest lecturer.	





### FEEDBACK ACTION TAKEN REPORT OF STAKEHOLDERS (2021-22)

Charotar University of Science and Technology CHARUSAT Campus, Changa Faculty of Science

### 19<sup>th</sup> Meeting of Board of Studies (Department of Biological Sciences)

### MINUTES OF THE MEETING

Date: 20/04/2022

Venue: Room No. 102 (Meeting room)

Time: 02.00 pm onwards

P. D. Patel Institute of Applied Sciences,

CHARUSAT, Changa.

The 19<sup>th</sup> meeting of the Board of Studies (BOS) of Department of Biological Sciences, Faculty of Science, Charotar University of Sciences and Technology, was held on 20<sup>th</sup> April 2022 at Meeting Room (Room No 102) of PDPIAS Building, from 02.00 pm onward, in offline mode.

### The following members were present during the meeting

Sr No	Name of the Member	Role
1.	Dr Aditi Buch	Chairperson, , Board of Studies (Biological Sciences)
2.	Dr Anuradha Nerurkar	External Expert Member, Board of Studies (Biological Sciences)
3.	Prof Datta Madamwar	Invited Expert Member, Board of Studies (Biological Sciences)
4.	Dr Palash Mandal	Member, Board of Studies (Biological Sciences)
5.	Dr Janki Thakker	Member, Board of Studies (Biological Sciences)
6.	Dr Seema Amin	Member, Board of Studies (Biological Sciences)
7.	Dr Gayatri Dave	Member, Board of Studies (Biological Sciences)

### The proceedings of the meeting are as under:

### Agenda Item No. 19.1 Approval of the minutes of 18th BoS meeting

The BoS chairperson briefed the members about the 18<sup>th</sup> BoS proceedings, subsequent actions taken and the members approved the minutes of 18<sup>th</sup> BoS meeting.

### Agenda Item No. 19.2: Syllabi for Academic Year 2022-23

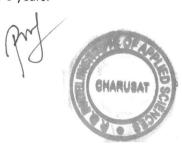
### **Proceedings**

The existing curricula for the UG and PG programs offered by Department of Biological Sciences have been implemented since AY2017-18. In view of this, the syllabi for BSc and MSc programs in Biotechnology/Microbiology/Biochemistry were considered for revision with respect to introduction of new courses, course content as well as restructuring of the teaching scheme.

The BoS chairperson briefed about the curriculum structure and its attempted alignment with NEP guidelines as well as the local/national/international needs

### The highlights/summary of the discussions and deliberations is as follows:

1. With reference to the NEP guidelines, the Department of Biological Sciences proposed to adopt 4-year UG program (3+1 years) with an exit option after 3 years.



It was also brought to the notice of the experts that the curriculum structure was designed to accommodate the other NEP-recommended exit options like certificate course and diploma; however, their implementation was discussed to be subject to policy decisions that could be later introduced.

- 2. Successful completion of 3-years of study shall yield a regular BSc degree while with the 4<sup>th</sup> year of study; the student shall obtain a BSc (Honrs) degree. Progression of the student from 3<sup>rd</sup> to 4<sup>th</sup> year shall be subject to qualification of the underlying minimum criteria (to be drafted subsequently).
- 3. The program is proposed to be implemented from AY 2022-23. However, the students enrolled in existing BSc program until AY2021-22 shall continue pursuing the old syllabus until they obtain their degree. Then onward the old syllabus (AY 2017-18 design) shall be discontinued. The regulations and curriculum shall apply to all students enrolling from AY2022 onwards. All other previously implemented curriculum shall cease to exist when all the students enrolled under said previous regulations, curriculum structure have passed out.
- 4. The 4-year curriculum skeleton was proposed to include the tentative course titles and corresponding credits (Annexure-I). Accordingly,

Program	Credits
4 Years BSc (Honrs)	176 (minimum)
3 Years BSc (Exit option)	138 (minimum)
Additional Value-Added Credits	01 (Min)-05 (Max)

- 5. Introduction of new courses and improvisation in course content to augment the curriculum with aspects like (i) Scientific and technological advances (ii) Skill development (iii) Holistic development (iv) vocational inclination (v) interdisciplinary components (vi) alignment with syllabi for various competitive exams (vi) progression into higher studies (vi) entrepreneurship was discussed and reviewed.
- 6. Broadly, **26 courses** of the proposed curriculum of BSc (BT/MI/BC) worth 71 credits were newly introduced, of which the 1<sup>st</sup> year courses shall be commonly offered irrespective of the discipline. The discipline selection shall be enabled after successful completion of 1<sup>st</sup> year; thus, the discipline-specific courses shall be subsequently included 3<sup>rd</sup> semester onward.
- 7. The teaching scheme and detailed syllabi (designed by departmental subject experts/teachers) for the courses including the list of experiments for 1<sup>st</sup> semester BSc were discussed with the experts to obtain inputs for improvisation. The chairperson also submitted that the content for the proposed course entitled 'Computer Applications' shall be enriched with after discussions with the subject experts.
- 8. Minor changes in several course titles were suggested by Dr Nerurkar and Dr Datta Madamwar, which were discussed, accepted by the other members and incorporated run-time.
- 9. Introduction of new courses like Computer Applications, Ecology and Environment, Microbial Taxonomy, Pharmacology and Herbal Medicine, Dietetics was appreciated.
- 10. The chairperson, representing a collective view of the internal committee members, sought the inputs of the experts regarding a waiver for the course entitled 'Foundation Course on Biology

- and Chemistry', with the rationale that the BSc students shall be studying both Biology and Chemistry in detail through the proposed program. Dr Gayatri Dave narrated in detail about the mode of offering the course and its ideology.
- 11. The chairperson further discussed about the components of the 4<sup>th</sup> year of the proposed programs including the apprenticeship and research component. The committee experts were updated regarding the MoU signed between PDPIAS and the Board of Apprenticeship and Training (BOAT) and Life Sciences Sector Skill Development Council (LSSSDC) (Annexure-II). The said apprenticeship was discussed as the major component planned for BSc Semester-VII. Inclusion of 'Research Project', course on 'Bioinstrumentation and Bioanalytical Skills' and interdisciplinary courses addressing the technological advances like Artificial Intelligence in Life Science Applications/Data Mining and Machine Learning for Life Sciences/Data Analytics, were discussed with respect to their relevance in augmenting the scientific capacities and skills of the students.

### Revisions in PG Programs-MSc (Biotechnology/Microbiology/Biochemistry)

- 12. The MSc curriculum was revised with respect to both the structure as well as course content. This program could be offered as a 2-year program for the regular UG students in allied disciplines, with effect from AY 2022-23.
- 13. The 2-year curriculum skeleton was proposed to include the tentative course titles and corresponding credits (Annexure-I). Accordingly, the MSc (Biotechnology/Microbiology/Biochemistry) program shall comprise of 104 credits
- 14. Introduction of new courses and improvisation in course content to augment the curriculum with aspects like (i) Scientific and technological advances (ii) Skill development (iii) Creativity and Innovative solutions (v) interdisciplinary components (vi) alignment with syllabi for various competitive exams (vi) progression into higher studies (v) job/employability orientation (vi) entrepreneurship was discussed and reviewed.
- 15. Total 09 courses worth 19 credits were newly introduced across MSc (BT/BC/MI) programs.
- 16. Dr Nerurkar and Dr Datta Madamwar thoroughly reviewed the overall curriculum structure of the PG programs and suggested inclusion of courses like 'Toxicology' (as elective in MSc Biochemistry). The experts further suggested to merge the courses "Bioprocess Engineering" and 'Industrial Microbiology'/'Industrial Biotechnology' into a single course due to some overlapping aspects. As per their suggestion, this would leave room for inclusion of other important papers for enrichment of the course. This suggestion was largely considered positively by the internal BoS members and a need to brainstorm on the same was realised.
- 17. The experts also suggested some course title improvisations to make it more befitting to the program. For example, instead of the proposed 'DSC-6: Microbial Biochemistry and Bioprocess Engineering' in MSc (Biochemistry), it was suggested that Bioprocess Engineering was poorly suitable in the proposed version and could be offered as an elective course for this program. It was further suggested to brainstorm and reconsider the course title to include more relevant aspects.
- 18. Dr Palash Mandal suggested considering the Biochemistry course in MSc 1<sup>st</sup> Semester for 4 credits instead of proposed 3 credits. The experts reviewed its detailed syllabus and suggested brainstorming on the same in view of the overall feasibility

- 19. It was emphasized that the curriculum was increasingly aligned with UGC-CSIR-NET syllabus. Dr Nerurkar additionally suggested considering referring the DBT-JRF BET before finalizing discipline-specific courses and their content.
- 20. The teaching scheme and detailed syllabi (designed by departmental subject experts/teachers) for the courses for 1<sup>st</sup> semester MSc were discussed with the experts to obtain inputs for improvisation.

### In general,

A permission was also sought to finalize the structure, course titles and course content in a phase-wise manner considering that this would help improvise and strengthen the curriculum to realise desired outputs and impact. Accordingly, it was proposed that the detailed syllabus for 2<sup>nd</sup> semester BSc and MSc shall be proposed and reviewed in the forthcoming 20<sup>th</sup> BoS meeting.

Overall, the feedbacks from students of exiting batches of BSc and MSc, teachers, academic peers, industrial associates and alumni were also considered during curriculum revision as and when suitable. This practice was appreciated by the expert members.

In concurrence with the NEP guidelines, incorporation of value-added activities such as industrial tour, field visit, seminars, community orientation, entrepreneurship and online learning through global platforms has been proposed to enrich both UG and PG curricula

### Resolution

- The BoS approved the implementation of revised curriculum for UG and PG with effect from AY2022-23, as proposed and revised.
- The BoS also allowed and encouraged the phase-wise syllabus design and its approvals through subsequent BoS before final implementation.
- The teaching schemes and syllabi for the 1<sup>st</sup> semesters of BSc and MSc were approved for implementation after incorporating the suggestions from the experts (Annexure-III & IV). Accordingly, the suggestions were duly incorporated in the list of practicals and the theory course contents, in consultation with the subject experts and teachers.

The extent of course content revision proposed and approved for BSc Sem-I and MSc Sem-I courses is as follows

Sr No	Course Code	Course Name	% Revision proposed
BSc S	emester-I		
1	BS118	Chemistry	45 %
2	BS119	Animal Biology	20 %
3	BS120	Plant Biology	25 %
4	BS121	Ecology and Environment	100% (Newly Introduced)
5	BS122	Laboratory in Biological Sciences- I	30 %
6	BS123	Computer Applications	100 % (Newly Introduced)
MSc S	emester-I		
7	MS721	Microbiology	30 %
8	MS722	Biochemistry	40 %
9	MS723	Cell Biology	25 %

10	MS724	Molecular Biology	35 %
11	MS725	Evolution and Ecology	100 % (Newly Introduced)
12	BT721	Experimental Skills in Biotechnology-I	25 %
13	MI721	Experimental Skills in Microbiology-I	25 %
14	BC721	Experimental Skills in Biochemistry-I	25 %

- The detailed syllabi for 2<sup>nd</sup> semester of BSc and MSc programs shall be proposed and reviewed in the forthcoming 20<sup>th</sup> BoS meeting.
- The BoS supported and recommended the waiver for course entitled 'Foundation Course on Biology and Chemistry' offered currently to BSc Semester-Students.
- The 4<sup>th</sup> year BSc components were retained as proposed with an addition of Elective Subject entitled 'Systems Biology Tools' for Semester-VIII students.
- Courses entitled 'Toxicology' and 'Biomolecular Engineering' were introduced as electives in MSc (Biochemistry) Semester-III, based on suggestions received by the experts.
- A proposed course title 'Microbial Biochemistry and Bioprocess Engineering' in MSc (Biochemistry) Semester-III was changed to 'Microbial Biochemistry and Physiology' as per experts' suggestions. Since good majority of our students opt for jobs, industry-oriented courses are emphasized in the curriculum. Accordingly, inclusion of Bioprocess Engineering aspect was proposed in MSc (Biochemistry) curriculum; however, as suggested by the experts it shall be introduced later on after due brainstorming with subject experts.
- After due deliberations with the departmental subject experts, the courses "Bioprocess Engineering" and 'Industrial Microbiology'/Industrial Biotechnology' were retained as individual courses, considering that 'Bioprocess Engineering' is covered extensively in the DBT-JRF exams
- Incorporation of value-added activities across UG and PG curricula for holistic development has been endorsed
- The course entitled 'Biochemistry' in Semester-I of MSc (Biotechnology/Biochemistry/ Microbiology) shall be of 4 credits, as resolved after due discussions with subject experts and teachers.
- The curriculum was increasingly aligned with the national level competitive exams like UGC-CSIR-NET, ICAR-NET, JGEEBILS, DBT-JRF, ICMR-JRF and other equivalent exams

### Agenda Item No. 19.3: Review of the feedback on curriculum from stakeholders Proceedings

A uniform structure for feedback on curriculum from various stakeholders like alumni, students, teachers, academic peers and employers, as prescribed by the university, was shared with the BoS members.

The chairperson briefed the committee regarding the summary of the feedback obtained. The major points of concern were deliberated upon and due inputs were obtained.

### Resolution

The feedback summary and actions taken in the meeting over major points are attached as  ${\bf Annexure-V}$ 



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### Agenda Item No. 19.4: Question Paper & Result analysis of Academic Year 2021-2022 Proceedings

The expert members in the committee thoroughly reviewed the question papers and the paper style. The experts were briefed about the shift to complete offline examination from the online mode. The results of UG and PG programs and grade distribution were also reviewed.

### Resolution

The expert members expressed their satisfaction with the style and format of the question paper as well as overall result distribution across UG and PG examinations.

### Agenda Item No. 19.5: Review of OBE parameters for Department of Biological Sciences Proceedings

The chairperson briefed about the process of CO-PO mapping for the department of Biological Science with a reference to the proceedings of 18<sup>th</sup> BoS meeting. Further it was shared that it depends on the question-wise marks for external examinations; which shall require optimization of university procedures for deriving the marks of exams conducted in offline mode. Additionally, Dr Seema Amin, the OBE coordinator of the department shared that the entire CO-PO attainment framework for the department was expected to be revised.

### Resolution

The BoS noted the submission on OBE aspects.

### Agenda Item No. 19.6: Amendment of Exam Panel (Winter and Summer Exams AY 2022-23)

On behalf of the department, the chairperson shared the details of two examiners for inclusion in the exam panel of BSc and MSc programs (Annexure VI). The same were shared with the committee members and their suggestions were obtained. The examiner panels submitted for the AY2021-22 (even semester) were also shared for reference.

### Resolution

The BoS approved the suggested amendment of the exam panel and recommended them as suitable for B Sc and MSc programs.

### Agenda Item No. 19.7: To discuss pedagogy and to suggest refinement/amendments

The chairperson discussed the shift of teaching to largely offline mode and the intermittent adoption of the hybrid pedagogy. The possible pedagogical changes required to satisfactorily implement the revised syllabi were also briefly discussed.

### Resolution

The BoS noted the change and also encouraged continued use of online tools for teaching-learning.

### Agenda Item No. 19.8: Approval of Synopsis, if any Proceedings

The synopsis submitted by Mr Rohit Rathour and Mr Dishant Patel, pursuing doctoral research under the guideship of Dr Chirayu Desai, was reviewed thoroughly by the BoS members. Further, the thesis referee panel proposed for these students was also examined and discussed.

### Resolution

The BoS approved the synopsis submission and the thesis referee panel (Annexures VII-X)

### Agenda Item No. 19.9: Any other item with the permission of the Chair Proceedings

- 1. Possible reforms in internal examination structure were discussed with respect to several alternatives. Dr Janki Thakker and Dr Gayatri Dave shared their concerns regarding the same. Dr Bragadish Iyer, a BoS member (in absentia) shared a possibility to innovate the continuous evaluation components to derive internal marks for theory courses. He also suggested to introduce examination reforms in practical exams, wherein the internal component may be continuously evaluated while the external examination may be formally conducted. The chairperson considered this suggestion positively and expressed the need to brainstorm the same at departmental level regarding its possible implementation.
- 2. The chairperson proposed introducing a certificate course for MSc Semester-IV pass-out students, to formally enable them to continue the research work from dissertation and yield some significant output (possibly a conference paper or a publication). Informal feedback from the existing MSc Semester-IV batch was obtained in prior to understand the acceptance of the proposal at the students' level. The experts and BoS members weighed the proposal with respect to willingness of students, involvement of additional fees, implementation aspects as well as its viability as a stand-alone course. Overall, it was suggested to have a more rigorous feasibility analysis should be carried out before its actual implementation.
- 3. Students' achievements and outputs in terms of placement, progression to higher studies, clearance of national and international level competitive examinations, receiving university/state/national level fellowships were shared with the BoS (Annexure-XI). The committee members noted and appreciated the same.

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### FEEDBACK SUMMARY AND ACTIONS TAKEN/RECOMMENDED AT 19<sup>TH</sup> BoS

### Department of Biological Sciences, Faculty of Science

Total 195 feedback inputs were obtained from various stake holders like BSc and MSc exit batch students, teachers, academic peers, industry associates as well as alumni, regarding curriculum and pedagogy adopted at Department of Biological Sciences, PDPIAS. Feedback from the academic peers and industry experts shall be further emphasized upon at the time of the upcoming syllabus revision

### Outline and Summary:

- 1. Majority of the students are satisfied and appreciative of the curriculum, teaching-learning experience and counselling process.
- 2. The students have also appreciated the opportunities and facilities for sports and extra-curricular activities and expressed their satisfaction over the same.
- 3. Alumni feedback is largely encouraging; mainly suggesting increased focus on fundamental practicals in the curriculum.
- 4. Most faculty members are appreciative of the UG and PG syllabus. Enhanced incorporation of industrial visits or industry-oriented components has been suggested.

Sr No	Feedback	Actions suggested/taken at 19th BoS meeting
Feedb	ack from BSc students	
1	Infrastructure related issues: Need to keep neat and hygienic girls common room and washroom and handwash in every washroom. Also need to keep classrooms clean and sweep regularly.	A dedicated housekeeping team is already appointed for the routine upkeep of the utilities. The same has been informed to the concerned in-charges and the Principal's office.
2	Network issues on campus need to be addressed Better facilities at computer lab are requested	The matter has been conveyed to concerned in-charges as well as the Principal's office. A follow-up for the improvement of the same shall be taken. BoS members were updated about it
3	Study material for every subject to be provided	The study material for most subjects are provided by the teachers in terms of hand-outs, ppt files or other lecture notes through MS Teams. Several faculty members also consider uploading recorded lectures. The emphasis is on usage of the library for obtaining more reading material, as this is considered to be the interest of the students' development. The BoS members were updated about the same
4	Examinations test only remembering and does not focus on understanding concepts.	The question papers for both internal and external exams are set to ensure a balance between the elements of Bloom's taxonomy where remembering and hence the memory-based questions are balanced with analytical or logical questions. However, this



		practice would be further consolidated based on the feedback
5	Most other feedbacks largely express satisfaction and appreciation over the academics, curriculum, teaching-learning experience and avenues for co- and extra-curricular activities	The BoS noted the overall appreciation received from the BSc students
Feedl	back for MSc students	
6	Other activities should be included in the department. And other festivals or event should be organized for the students for environmental change.	A range of opportunities are already available on campus for pursuing the extracurricular component. Further enhancement in the same has been considered while devising the new teaching schemes.
7	There should be practical sessions if elective subjects are practical based.	This suggestion would be considered while designing the new curriculum. Attempt shall be further made to improve lab exposure in practical-based subjects.
8	Wifi and internet facility needs improvement	The matter has been conveyed to concerned in-charges as well as the Principal's office. A follow-up for the improvement of the same shall be taken.
9	Non-teaching staff needs to be more professional in terms of communication with students.	This aspect shall be addressed while designing training sessions for the non-teaching staff
10	Industrial visit & trips should be organized	This aspect has been considered well while designing the new curriculum and the same has been discussed with the BoS members.
	pack from Teachers/Industry/Academic Peer	S
11	Prepare the syllabus to give them a holistic view about science. Which can make them think logically. Question paper should have more concept-based questions	The syllabus for UG and PG are largely evolved to include scientific advancements, skill development as well as holistic aspects. The Foundation Course is an attempt to impart some holistic view about science. Besides, case studies and presentations also cover such aspects.
		The question papers for both internal and external exams are set to ensure a balance between the elements of Bloom's taxonomy. Thus, memory-based questions are balanced with analytical/concept-based questions. However, this practice would be further consolidated based on the feedback
12	Commercial mathematics and statistics in the curriculum to be included and enhanced	This suggestion has been duly discussed in BoS. The newly designed curriculum has proposed inclusion of courses like Essential Skills in Mathematics and Biostatistics, which could be further enhanced as suggested.
13	In the last Semester component of industrial training/ project can be included.	Existing and newly proposed syllabi for PG programs have a compulsory dissertation component.
		Industrial tour, field-visits and research projects have been introduced in UG curriculum, in lines with NEP recommendations



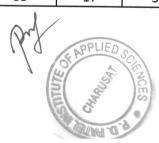
14	Faculties of Biological Science Department	The BoS noted the acknowledgement and appreciation
	are good at evidence based teaching	
	practices which motivate students.	
15	Add new courses in MSc Microbiology	New curricula for UG and PG programs in Microbiology
		have introduced several newer courses to enrich the
		subject diversity covered. This was discussed in the BoS
16	Industrial Microbiology and Bioprocess	The BoS noted the acknowledgement and appreciation
	engineering appropriately includes	received
	fermentative production of primary as	
	well as secondary metabolites. This course	
	also addresses recent advancement in the	
	field including use of Recombinant DNA	
	technology for the commercial production	
	of various metabolites. It also includes	
	basic aspects on IPR and Patenting. The	
	course is very meticulously designed by	
	incorporating all the aspects related to	
	this course	
	pack from Alumni	
17	The course should focus onto improvising	The continuous evaluation components as well as
	logical reasoning and analogy questions in	external examination include a balance between the
	the subject.	elements of Bloom's taxonomy. Thus, memory-based
		questions are balanced with analytical/logical
		questions. Several components like seminars, case-
	×	studies and dissertation further allow analogy-based
,		study.
	,	Povision of the service by the service by
		Revision of the curricula undertaken has considered
18	It is great that powerpoint presentations	this aspect more emphatically
	are provided for the topics, in that way	This feedback was well-noted. The BoS members also
	one can follow in the class and not worry	resonated with the same. Efforts are already made to encourage use of books by sharing concise and
	about missing out some important points	selected course materials. The pedagogical changes
	but reading subject related books should	shall be planned to enhance the usage of books for
	be emphasized for in depth knowledge of	better knowledge.
	the subject.	in the wiedge.
19	Can we please add more detailed	The curriculum has included the suggested technique
	molecular biology. In the subject where	of cloning in the Genetic Engineering practicals. The
	we teach different methods like SDS page,	recent advances of CRISPR/Cas9 and equivalent
	we should also include cloning in detail	developments are discussed through theory subject
	and also new and advanced technique	like Omics Technologies and Bioinformatics in MSc
	should be made known like CRISPR/Cas9.	programs.
	There should also be practicals involving	
	tissue culture techniques of both plants	Newly revised curriculum has taken this aspect into
	and animals.	consideration
20	Need to increase the industrial visits and	Industrial tour, field-visits and research projects have
	trainings to gain the actual working	been introduced in UG curriculum, in lines with NEP
	knowledge in the industries. Can invite	recommendations
	some industrial senior people as guest	
	lecturer.	
		$\wedge \wedge \wedge$





### FEEDBACK ANALYSIS (%) - BSc EXIT SURVEY - 2022

Parameter	Excellent	Very Good	Good	Average	Below Average
Curriculum developed and implemented has relevance to local,	- Additiont	tery dood	Cood	Avelage	below Averag
national, regional and global development needs.	36	30	34	1	0
Curriculum was broad enough to prepare you for career of choice.	35	33	26	7	0
Curriculum integrates crosscutting issues relevant to processional		- 55		<del>                                     </del>	-
ethics, gender, human values, environment and sustainability.	37	34	28	2	0
The learning was supplemented by co-curricular activities such as				-	0
course work outside the curriculum, project work, internships,					
workshops, conference, symposia etc.	29	30	31	8	3
Audiovisual learning resources provided by teachers facilitated you					
to improve learning.	35	35	27	3	1
Reading material and other learning resources provided by		- 55			<u> </u>
teachers facilitated you to improve learning.	32	34	30	5	0
Hands-on practice in laboratories and project work facilitated in			- 30	J	0
overall development, inculcating skills and time management.	44	30	21	4	1
Academic activities facilitate you to improve experiential learning,		- 50			1
participative learning and problem-solving methodology.	38	26	32	4	1
Evaluation pattern (Unit Test, Assignment, and Presentation) made	- 50		- 52	-	1
you capable of analyzing your strength & weakness, and					
empowered you to use resources effectively.	45	27	21	6	1
The overall experience would help you to engage in independent	,,,			0	Т
and life-long learning in the broadest context of technological					
change.	37	34	23	6	0
Institution has an eco-system to promote research and other			23	0	
initiatives for creationand transfer of knowledge.	36	40	21	2	1
Institution has adequate facility to carry out research.	44	32	23	1	0
Workshops/seminars on research methodology, Intellectual		32			0
Property Rights (IPR), entrepreneurship, skill development are				7	
organized regularly.	39	28	31	3	0
Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural	- 55	20	31		
Education etc.) are conducted regularly.	51	22	24	2	0
The institute has adequate facilities for Teaching – learning viz.			27		
audiovisual amenities, classrooms, laboratories.	43	36	19	2	0
The institute has adequate facilities for Cultural activities, yoga,		- 50	15		
games (Indoor and outdoor), sports and gymnasium	37	32	26	5	1
The institute has adequate LAN, WiFi and Internet Facility	18	19	27	27	1 9
The institute has adequate and hygienic canteen and food facilities.	35	34	26	5	1
Campus Ambience (Greenery, Environment friendly eco system,		J-1	20	J	Т
usage of solar lights, saving of electivity, production of electricity,					
			1		
working space) is pleasant.	59	21	16	3	0



			Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow		
Active student council exists and students are involved in activities					
for institutional development and student welfare.	40	32	27	1	
Institution timely resolves the grievances including sexual					
harassment and ragging cases	50	30	17	3	0
Counseling helped in assessing learning level of students, leading to					
customized attention to needy students.	42	33	21	2	2
Institution encourages and provides support to participate in					
national and international events.	44	30	21	4	1
Capacity development and skills enhancement activities are					
organized regularly.	41	29	24	5	1
Adequate support is provided by Career Development and					
Placement Cell (CDPC).	32	30	31	8	0
The effective and transparent leadership is reflected in various					
institutional policies/ practices.	35	34	30	1	1
Management of Institution follows "Equal Opportunity†for all	34	33	24	7	2
Institute felicitates achievement of students through various modes.	41	31	26	3	0
				***	

### \* Total number of feedbacks obtained: 98

### Other Feedback

(1) Infrastructure related issues:

Need to keep neat and hygienic girls common room and washroom and handwash in every washroom.

Also need to keep classrooms clean and sweep regularly.

Network issues on campus need to be addressed

- (2) Better facilites at computer lab are requested
- (3) Study material for every subject to be provided
- (4) Examinations test only remembering and does not focus on understanding concepts.
- (5) Most other feedbacks largely express satisfaction and appreciation over the academics, curriculum, teaching-learning experience and avenues for co- and extra-curricular activites









### FEEDBACK ANALYSIS (%) - MSc EXIT SURVEY - 2022

Parameter	Karamatan	Total Library	Percent	age	
	Excellent	Very Good	Good	Average	Below Average
Curriculum developed and implemented has relevance to local,			Oran St. St.	111111111111111111111111111111111111111	Delow Average
national, regional and global development needs.	38	33	28	1	0
Curriculum was broad enough to prepare you for career of choice.	38	33	24	5	0
Curriculum integrates crosscutting issues relevant to processional					
ethics, gender, human values, environment and sustainability.	41	33	25	1	0
The learning was supplemented by co-curricular activities such as					
course work outside the curriculum, project work, internships,					
workshops, conference, symposia etc.	39	30	27	4	О
Audiovisual learning resources provided by teachers facilitated					
you to improve learning.	34	43	20	3	О
Reading material and other learning resources provided by					
teachers facilitated you to improve learning.	35	39	22	4	0
Hands-on practice in laboratories and project work facilitated in					
overall development, inculcating skills and time management.	49	34	15	1	0
Academic activities facilitate you to improve experiential learning,					
participative learning and problem-solving methodology.	37	39	23	1	0
Evaluation pattern (Unit Test, Assignment, and Presentation)					-
made you capable of analyzing your strength & weakness, and					
empowered you to use resources effectively.	39	39	19	3	0
and life-long learning in the broadest context of technological					
change.	33	46	19	3	0
Institution has an eco-system to promote research and other	- 33		13	3	0
initiatives for creationand transfer of knowledge.	41	41	19	0	0
Institution has adequate facility to carry out research.	39	33	28	0	0
Property Rights (IPR), entrepreneurship, skill development are	- 55	- 55	20	0	
organized regularly.	33	22	22		
Activities with social relevance (NCC/ NSS/ CHRF/ CHARUSAT Rural	33	32	33	3	0
Education etc.) are conducted regularly.	35	24	27		
The institute has adequate facilities for Teaching â€" learning viz.	33	34	27	4	0
audiovisual amenities, classrooms, laboratories.	44	27	10		
The institute has adequate facilities for Cultural activities, yoga,	44	37	18	1	0
games (Indoor and outdoor), sports and gymnasium	20	20	25		
The institute has adequate LAN, WiFi and Internet Facility	38	28	25	8	1
The institute has adequate and hygienic canteen and food facilities.	27	20	27	16	10
Campus Ambience (Greenery, Environment friendly eco system,	35	29	30	4	1
usage of solar lights, saving of electivity, production of electricity,					
working space) is pleasant.	40	22	15		
Adequate learning resources are available in library.	49	33	16	1	0
Active student council exists and students are involved in activities	35	29	30	5	0
or institutional development and students are involved in activities	44	20			
nstitution timely resolves the grievances including sexual	41	30	25	4	0
narassment and ragging cases	25	2-			
deline indepting cases	35	35	29	0	0



Counseling helped in assessing learning level of students, leading					
to customized attention to needy students.	38	33	28	1	0
Institution encourages and provides support to participate in					
national and international events.	38	33	27	3	0
Capacity development and skills enhancement activities are					
organized regularly.	32	34	30	3	1
Adequate support is provided by Career Development and					_
Placement Cell (CDPC).	39	33	24	3	1
The effective and transparent leadership is reflected in various					
institutional policies/ practices.	37	34	27	3	0
Management of Institution follows "Equal Opportunity†for all		33	28	3	0
Institute felicitates achievement of students through various modes	41	33	25	1	0

<sup>\*</sup> Total number of feedbacks obtained: 79

### Other Feedback

- (1) Other activities should be included in the department. And other festivals or event should be organized for the students for environmental change.
- (2) There should be practical sessions if elective subjects are practical based.
- (3) Wifi and internet facility needs improvement
- (4) Industrial visit & trips should be organized





# FACULTY OF SCIENCE P D PATEL INSTITUTE OF APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

# ANALYSIS OF FEEDBACK ON CURRICULUM (INDUSTRY/ACADEMIC PEERS/TEACHERS)

	9	Downwood							
		raidinetel	Level (UG/PG)	Excellent	Very Good	Good	Satisfactory	Satisfactory Needs Improvement Not applicable	Not applicable
	1	Content of syllabus	B Sc	2 of 3					
			MSc	1 of 6	4 of 6	1 of 6			
	2	Relevance of syllabus to industry/research requirements	B Sc		2 of 3				
			MSc	1 of 6	5 of 6				
	3	Course outcomes are well defined	B Sc	3 of 3		7.8			
			MSc	1 of 6	5 of 6				
	4	Sufficient reading materials and digital resources provided	B Sc	2 of 3					
	T		MSc	1 of 6	3 of 6	2 of 6			
	2	Incorporation of advanced topics	B Sc	2 of 3					
$\perp$	T		MSc		3 of 6	2 of 6	1 of 6		
	9	Pedagogy proposed	B Sc	2 of 3					
			MSc		5 of 6		1 of 6		
	7	Have a desired balance between theory and practical	B Sc		2 of 3				
	T		MSc	1 of 6	4 of 6		1 of 6		
$\perp$	∞	Assessment methods are fair, measuring the outcomes	B Sc	3 of 3					
$\perp$	1		MSc		5 of 6	1 of 6			
	6	Project component in the course, if applicable:	B Sc						3 of 3
_	1		MSc	1 of 6	2 of 6	1 of 6	1 of 6		1 of 6
	10	Industrial training/practical exposure in the course, if applicable:	B Sc	2 of 3					5
	,		MSc		1 of 6	3 of 6	1 of 6	1 of 6	
6	2							- -	

\* Total number of feedbacks obtained: 9

### Subject Key and Other Feedback

the syllabus to give them a holistic view about science. Which can make them think logically. Question paper should have more concept based questions	cial mathematics and statistics in the curriculum to be included and enhanced
epare the syllabus to	mmercial mathema
N P	2 Ct
10	

Semester component of industrial tr	aining/ project can be included	all light project can be illeladed.
ᆈ	t Semester component of industrial tra	מיייים ביייים

<sup>4 |</sup> Faculties of Biological Science Department are good at evidence based teaching practices which motivate students. Add new courses in MSc Microbiology

Industrial Microbiology and Bioprocess engineering appropriately includes fermentative production of primary as well as secondary metabolites. This course also addresses recent It also include basic aspects on IPR and Patenting. The course is very meticulously designed by incorporating all the aspects related to this course. advancement in the field including use of Recombinant DNA technology for the commercial production of various metabolites.



## FACULTY OF SCIENCE P D PATEL INSTITUTE OF APPLIED SCIENCES DEPARTMENT OF BIOLOGICAL SCIENCES

### CHARDISAT CHARGIST OF SCIENCE AND THE CHARGE AND THE CHARGE OF WITH "A" Grade by NAAC

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SUMMARY OF ALUMNI FEEDBACK - AC
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	mail.com	l.com	mail.com	@gmail.com	vidhibhatt802@gmail.com
Name	Khushbu Rathod	Chandni Chavda	patel kashyap	Heni Patel	Vidhi Bhatt
Mobile Number	9724904989	6356281193	7016742095	9825227575	8460141825
Designation	Research Scholar	Junior Embryologist	Officer	Student	Research Scholar
Institute/Organisation		sciences	Sun Pharmaceutical		
:	PDPIAS, CHARUSAT Pvt Ltd	Pvt Ltd	ltd	PDPIAS	P. D. Patel Institute of Applied Sciences, CHARUSAT
Feedback for the	Department of Biological	Department of	Department of	Department of	
department	Sciences	Biological Sciences	Biological Sciences	Biological	Department of Biological Sciences
Feedback for the	duate course	duate course	Postgraduate course	Postgraduate	
Program	.Sc.)		(M.Sc.)	course (M.Sc.)	Postgraduate course (M.Sc.)
Feedback for the course	All	Microbiology	Good Course	Microbiology	The course should focus onto improvising logical reasoning and analogy questions in the subject.
,					
1. Content of syllabilis					
	very good	Very good	Very good	Good	Very good
Z. Relevance of	Good	Very good	Very good	Very good	Very good
3. Course outcomes	Very good		Very good		Very good
4. Sufficient reading	Very good	Good	Very good		Satisfactory
5. Incorporation of		Satisfactory			Good
6. Pedagogy proposed Very good		Satisfactory			Good
7. Have a desired	Excellent	Satisfactory	Very good		Good
8. Assessment	Excellent	Very good			Very good
9. Project component	good	Satisfactory			Good
10. Industrial training/ Good		Needs Improvements	Pood		Good
Additional suggestions None and remarks, if any:		And new course	Poop	ON	It is great that powerpoint presentations are provided for the topics, in that way one can follow in
				<u></u>	the class and not worry about missing out some
				- 6	important points but reading subject related books should be emphasized for in depth knowledge of the
				S	subject.
		7			



Prashant Kshatriya7@gmail.  Prashant Kshatriya  9724739794  Research Scientist  Copartment of Biological Sciences Postgraduate course (M.Sc.) BioChemistry  Good Good Good Good Good Good Good Cood Good G	Username	cagarcharma cc376@mmil			
Name         Sagar Sharma         DIVYA PATEL         Freshed         Parahant Ksharitya           Mobile Number         7.25669316         +1.9202690438         9724739794           Posignation         Ph.D. student         MASTERS OF MICROBIOGY         Research Scientist           Feedback for the department of Biological Sciences         Department of Biological Sciences         Department of Biological Sciences         Department of Biological Sciences           Feedback for the Program         Postgraduate course (M.Sc.)         Postgraduate course (M.Sc.)         Postgraduate course (M.Sc.)         Postgraduate course (M.Sc.)           Feedback for the course methods like SDS page, we should also mede and also mede and advanced techniques and advanced techniques so from high and also mede and advanced controlled be made known like course of syllabus to Mede known like the course are well good         Excellent         Good         Good         Excellent         Good         Excellent         Mede to microse students in policy is stop bet platform for all of the Mede to microse and mede and mede		33377 OC BIHAIL COLL	divya2830patel@gmail.com	prashantkshatriya7@gmai	ptanvi200@gma
Mobile Number 729689716 residual business of Silesia Department of Biological Sciences PAD PAD PAD STUDEGOLAS GOSTAR Research PAL LIA Freedback for the department of Biological Sciences Can we please add more detailed molecular miletory in the subject where we teach different methods like SDS page, we should also inclide clonning in detail and also new and advanced techniques of both plants and animals.  3. Content of syllabus to Meeds Improvements because the practices inconvince of syllabus to Meeds Improvements because the practices inconvince of syllabus to Meeds Improvements because the practices inconvince of statisfactory because the practices inconvince of statisfactory because the practices inconvince of statisfactory because the practices inconvince of syllabus to Meeds Improvements because the second of Silent residing materials by tray good because of statisfactory because the second process and animals.  3. Course outcomes are well of some of the plants o	Name	Sagar Sharma	DIVVA PATEI	Occupant Value 1	mo
Particle of Martine	Mobile Number	-729689716	1 020200030	riasiiant Nshatriya	I anvi Patel
restlucte/Organisation University of Silesia P D PATEL INSTITUTE OF APPLIED SCIENCES GIOSTAR Research Port. Ltd Feedback for the department of Biological Sciences Department of Biological Sciences Protein Part. Ltd Department of Biological Sciences Annual Part. Ltd Department of Biological Sciences Annual Part. Ltd Department of Biological Sciences Protein Part. Ltd Department Part. Ltd Department Departs Part. Ltd Department Departs Part. Ltd Department Departs Part. Ltd Department Departs Part. Department Department Department Department Department Department Depa	Designation	D by critical	T1 9202090438	9724739794	6353405714
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Feedback for the department of Biological Sciences Feedback for the Program Postgraduate course (M.S.c.) Feedback for the Program Postgraduate course (M.S.c.) Feedback for the course Can we pleases and more detailed molecular Biology, In the subject where we teach different methods like SDS page, we should also inclide CRISPR/Cas9. There should also be practicles involving tissue culture techniques of both plants and animals.  1. Content of syllabus to like striped animals.  2. Course outcomes are well Good CRISPR/Cas9. There should also be practicles involving tissue culture techniques of both plants and animals.  3. Course outcomes are well Good CRISPR/Cas9. There should also be practicles involving tissue culture techniques of both plants and animals.  4. Satisfactory CRISPR/Cas9. There should also be practicles involving tissue culture techniques of both plants and animals.  5. Course outcomes are well Good Fecellent CRISPR/Cas9. There should slove be practicles involving tissue culture techniques of both plants and animals.  6. Dedagogy proposed Good Fecellent Crompenent in the Case of Microbiology or biothemistry. Thank you industrial visits and recommend to advance of satisfactory Cood Additional suggestions and Additional suggestions and Additional suggestions and was the control of the plants of the pl		University of Silesia	P. D. PATEL INSTITLITE OF APPLIED SCIENCES	Lat and descend dAT2015	
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10. Industrial training/       Satisfactory       Very good       Good         Additional suggestions and remarks, if any:       NA       PDPIAS is the best platform for all of the biological sciences students. I highly industrial visits and recommend PDPIAS if someone wants to trainings to gain the actual pursue the degree of Microbiology or biochemistry. Thank you industries. Can invite some to the all-faculty members for explaining industrial senior people as every single thing in detail and for guest lecturer.	9. Project component in the		Excellent		Excellent
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			to the all-faculty members for explaining every single thing in detail and for	industrial senior people as guest lecturer.	