# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal) Department of Chemical Engineering

#### Feedback Analysis & Action Taken Report

<b>ITEM NO. 21</b> To review curricula	Feedback	Feedback Comments	Feedback Action Taken
feedback from various stakeholders, its analysis and impact	Students Feedback	<ul> <li>The curriculum is up to date</li> <li>Adsorption unit that should be included in mt-1</li> <li>Chemical technology course should run through NPTEL</li> <li>Chemical reaction in some different process (specially industrial oriented)</li> <li>Much theoretical things should be excluded from CMCE subject.</li> </ul>	<ul> <li>Scope of improvement is being explored</li> <li>Matter will be discussed with BoS experts.</li> <li>Availability of such courses will be explored in SWAYAM/NPTEL list of courses</li> <li>Same will be put up before concerned authorities</li> <li>Same will be put up before concerned authorities</li> </ul>
	Faculty Feedback	• A very healthy environment for teaching but there are no specific research facilities	• The matter will be put up before concerned authorities
	Parents Feedback	<ul> <li>There will be some more concern about student's future job opportunities</li> </ul>	• It has been informed to placement cell.
	Alumni Feedback	<ul> <li>Revision of syllabus is required</li> <li>Need to particularly focus on practical application rather than teaching theories.</li> <li>Availability of Books in Library</li> <li>Department should have a regular industrial visits.</li> </ul>	<ul> <li>Already discussed and changed in BoS accordingly</li> <li>All the faculty members have been instructed to discuss the theory with some practical applications in their respective courses.</li> <li>The Library officer has been informed about the situation and also shared</li> </ul>

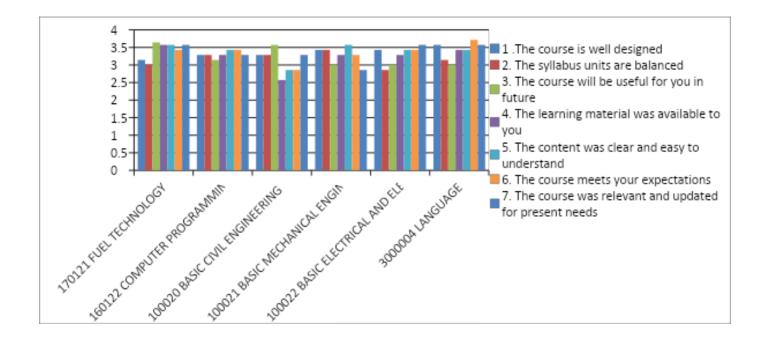
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		<ul> <li>the list of Books.</li> <li>Department is exploring opportunity related to conduction of industrial visit.</li> </ul>
Employer Feedback	<ul> <li>They must focus on the core rather making aware about other subjects</li> <li>The courses offered are only relevant upto a certain level there should be a proper commencement of newly technologies introduced in the industries then only we can make graduates ready for an industry. They must taught about the ethics and principles which one should follow while working inside the chemical industries.</li> <li>Must include an optional course on chemical/industrial operations which are practiced in different process industries.</li> <li>Need some courses on finance as well. Data science is an emerging field an exposure of that will be beneficial.</li> <li>If possible, addition of 2-3 months of internship or practising of students in multiple industries to get contemporary knowledge in industrial operations.</li> </ul>	<ul> <li>Courses are offered according NEP</li> <li>New Technology and Industry related course already offered in flexible curriculum.</li> <li>Some Such courses are offered on NPTEL platform under DE</li> <li>Regarding this Provision is there in open category courses.</li> <li>Students get industrial (1 month) visit after 6<sup>th</sup> sem and during 8<sup>th</sup> sem most of the students are engaged with industrial internship (4-6months)</li> </ul>

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S. No.	Comments	Action Taken
1.	• The curriculum is up to date	• Scope of improvement is being explored
	• Adsorption unit that should be included in mt-1	• Matter will be discussed with BoS experts.
	• Chemical technology course should run through NPTEL	<ul> <li>Availability of such courses will be explored in SWAYAM/NPTEL list of courses</li> </ul>
	<ul> <li>Chemical reaction in some different process (specially industrial oriented)</li> <li>Much theoretical things should be excluded from CMCE subject.</li> </ul>	• Same will be put up before concerned authorities Same will be put up before concerned authorities

#### **Students Feedback on Course Curriculum**

#### Course Curriculum Feedback (by students on MOODLE): (July – Dec 2022) 1st Semester, Sample Size: 6



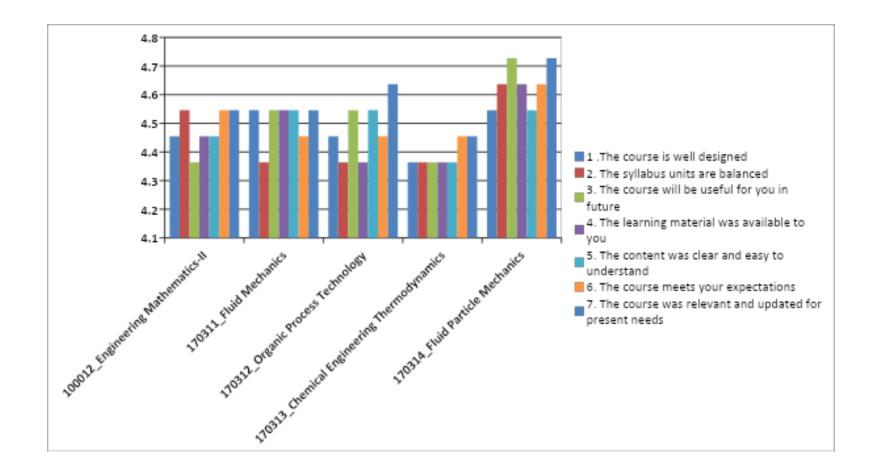
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#### SUMMARY SHEET (Course Curriculum Feedback by Students on MOODLE) 1st Semester, Sample Size: 6

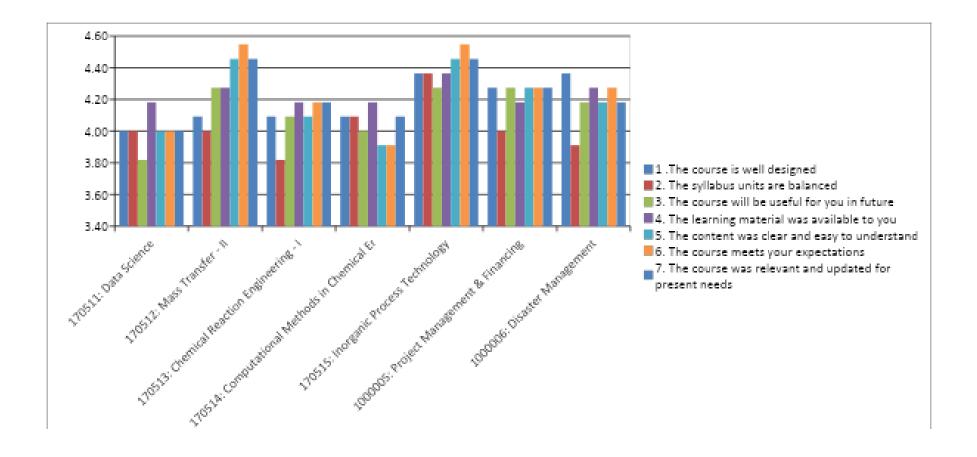
Parameter (Average Grading)	1. The course is well designed	2. The syllabus units are balanced	3. The course will be useful for you in future	4. The learning material was available to you	5. The content was clear and easy to understand	6. The course meets your expectations	7. The course was relevant and updated for present needs	CSI
170121 FUEL TECHNOLOGY	3.14	3.00	3.64	3.57	3.57	3.43	3.57	3.42
160122 COMPUTER PROGRAMMING	3.29	3.29	3.14	3.29	3.43	3.43	3.29	3.31
100020 BASIC CIVIL ENGINEERING AND MECHANICS	3.29	3.29	3.57	2.57	2.86	2.86	3.29	3.10
100021 BASIC MECHANICAL ENGINEERING	3.43	3.43	3.00	3.29	3.57	3.29	2.86	3.27
100022 BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	3.43	2.86	3.00	3.29	3.43	3.43	3.57	3.29
3000004 LANGUAGE	3.57	3.14	3.00	3.43	3.43	3.71	3.57	3.41

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Course Curriculum Feedback (by students on MOODLE): (Jul – Dec 2022) 3<sup>rd</sup> Semester, Sample Size:

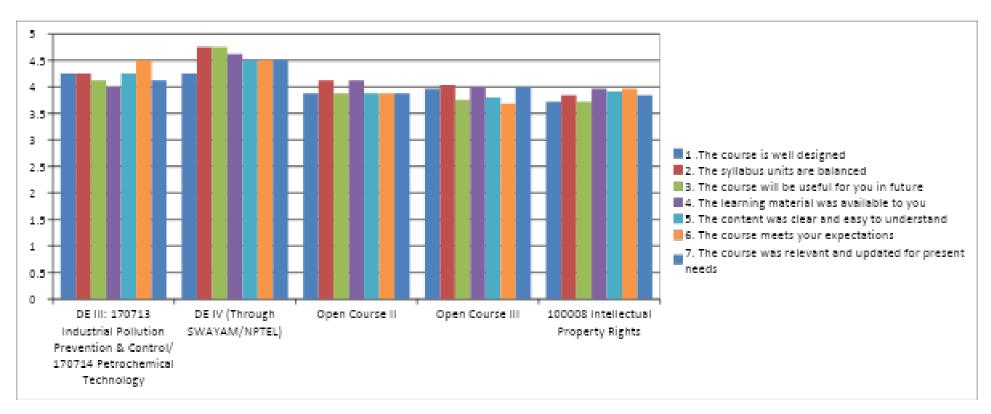


Parameter (Average Grading)	1 .The course is well designed	2. The syllabus units are balanced	3. The course will be useful for you in future	4. The learning material was available to you	5. The content was clear and easy to understand	6. The course meets your expectations	7. The course was relevant and updated for present needs	
100012_Engineering Mathematics-II	4.45	4.55	4.36	4.45	4.45	4.55	4.55	4.48
170311_Fluid Mechanics	4.55	4.36	4.55	4.55	4.55	4.45	4.55	4.51
170312_Organic Process Technology	4.45	4.36	4.55	4.36	4.55	4.45	4.64	4.48
170313_Chemical Engineering Thermodynamics	4.36	4.36	4.36	4.36	4.36	4.45	4.45	4.39
170314_Fluid Particle Mechanics	4.55	4.64	4.73	4.64	4.55	4.64	4.73	4.64
1000005_Project Management & Financing	4.27	4.36	4.27	4.36	4.36	4.36	4.27	4.32



Parameter (Average Grading)	1 .The course is well designed	2. The syllabus units are balanced	3. The course will be useful for you in future	4. The learning material was available to you	5. The content was clear and easy to understand	6. The course meets your expectations	7. The course was relevant and updated for present needs	CSI
170511: Data Science	4.00	4.00	3.82	4.18	4.00	4.00	4.00	4.00
170512: Mass Transfer - II	4.09	4.00	4.27	4.27	4.45	4.55	4.45	4.30
170513: Chemical Reaction Engineering - I	4.09	3.82	4.09	4.18	4.09	4.18	4.18	4.09
170514: Computational Methods in Chemical Engineering	4.09	4.09	4.00	4.18	3.91	3.91	4.09	4.04
170515: Inorganic Process Technology	4.36	4.36	4.27	4.36	4.45	4.55	4.45	4.40
1000005: Project Management & Financing	4.27	4.00	4.27	4.18	4.27	4.27	4.27	4.22
1000006: Disaster Management	4.36	3.91	4.18	4.27	4.18	4.27	4.18	4.19

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#### Course Curriculum Feedback (by students on MOODLE): (Jul – Dec 2022) 7<sup>th</sup> Semester, Sample Size: 25

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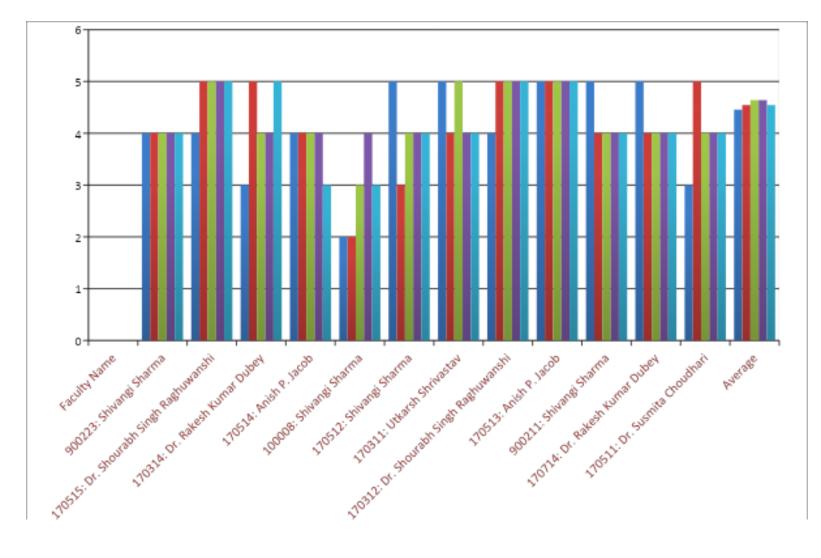
#### SUMMARY SHEET (Course Curriculum Feedback by Students on MOODLE) 7th Semester, Sample Size: 25

Parameter (Average Grading)	1 .The course is well designed	2. The syllabus units are balanced	3. The course will be useful for you in future	4. The learning material was available to you	5. The content was clear and easy to understand	6. The course meets your expectations	7. The course was relevant and updated for present needs	CSI
DE III: 170713 Industrial Pollution Prevention & Control/ 170714 Petrochemical Technology	4.25	4.25	4.125	4	4.25	4.5	4.125	4.21
DE IV (Through SWAYAM/NPTEL)	4.25	4.75	4.75	4.625	4.5	4.5	4.5	4.55
Open Course II	3.88	4.12	3.88	4.12	3.88	3.88	3.88	3.95
<b>Open Course III</b>	3.96	4.04	3.76	4	3.8	3.68	4	3.89
100008 Intellectual Property Rights	3.72	3.84	3.72	3.96	3.92	3.96	3.84	3.85
	<b>Course Satis</b>	faction Index (	CSI) (on a scale of 5	5) (5: Excellent, 4: Vo	ery Good, 3: Good, 2	: Average, 1: Below	v Average)	

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	Faculty Fe	eedback on Course Curriculum			
S. No.	Comments	Action Taken			
1.	• A very healthy environment for teaching but there are no specific research facilities	• The matter will be put up before concerned authorities			

**TEACHERS' COURSE CURRICULUM FEEDBACK (by teacher on MOODLE): (Jul – Dec 2022)** 



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#### SUMMARY SHEET (Teachers Course Curriculum Feedback by Teacher on MOODLE)

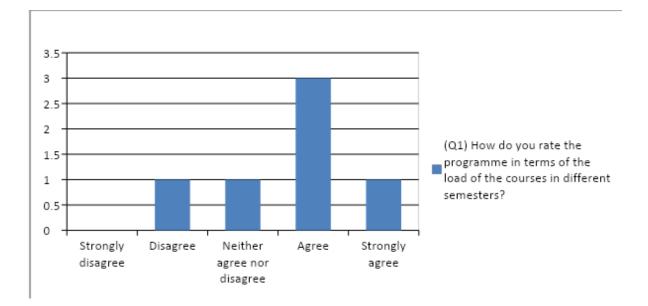
Parameter (Average Grading)	1. The availability of books & E-learning material in the institute is good.	2. The Courses and content are up to date.	3. The course curriculum/syllabi are helpful in meeting the higher studies/placement requirements according to present global trends.	4. The course / contents in your domain/area are well designed and frequently updated, hence need no changes at present.	5. The curriculum is capable of inculcating life-long learning abilities in students.
900223: Industrial Safety & Hazards	4	4	4	4	4
170515: Inorganic Process Technology	4	5	5	5	5
170314: Fluid Particle Mechanics	3	5	4	4	5
170514: Computational Methods in Chemical Engineering	4	4	4	4	3
100008: Intellectual Property Rights	2	2	3	4	3
170512: Mass Transfer - II	5	3	4	4	4
170311: Fluid Mechanics	5	4	5	4	4
170312: Organic Process Technology	4	5	5	5	5
170513: Chemical Reaction Engineering - I	5	5	5	5	5
900211: Petroleum Processing Technology	5	4	4	4	4
170714: Petrochemical Technology	5	4	4	4	4
170511: Data Science	3	5	4	4	4
Teacher Course Satisfaction Index	x (TSI) (on a scale of 5	) (5: Excellent, 4: Ve	ry Good, 3: Good, 2: Average,	, 1: Below Average)	

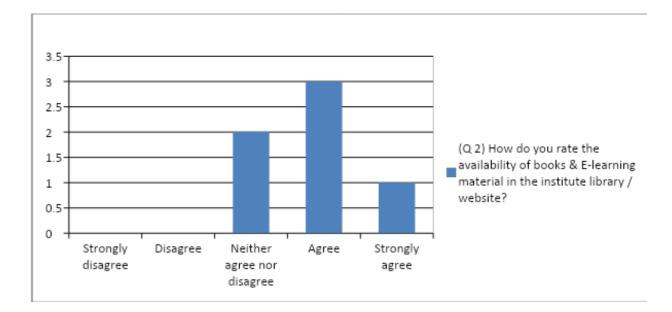
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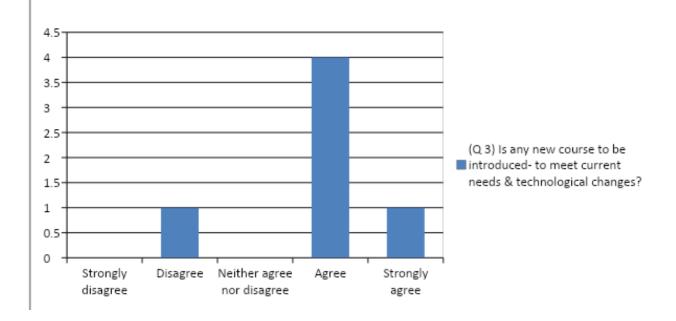
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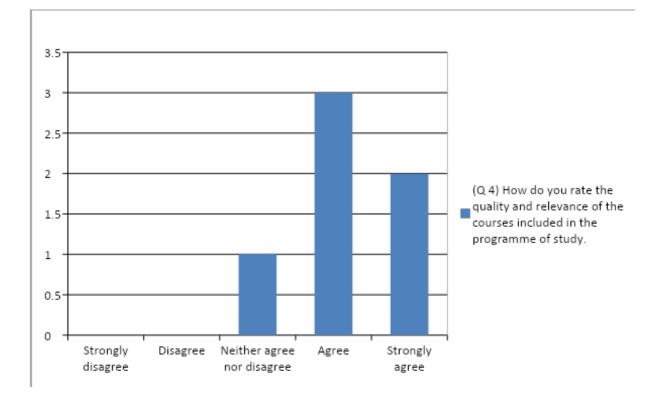
	Parent Feedback									
S. No.	Comments	Action Taken								
1.		It has been informed to placement cell.								

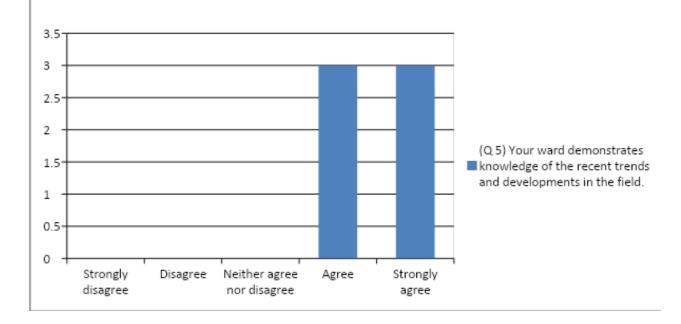
#### Parent Satisfaction Survey 2<sup>nd</sup> year 2021 – 22 ) Sample Size: 06

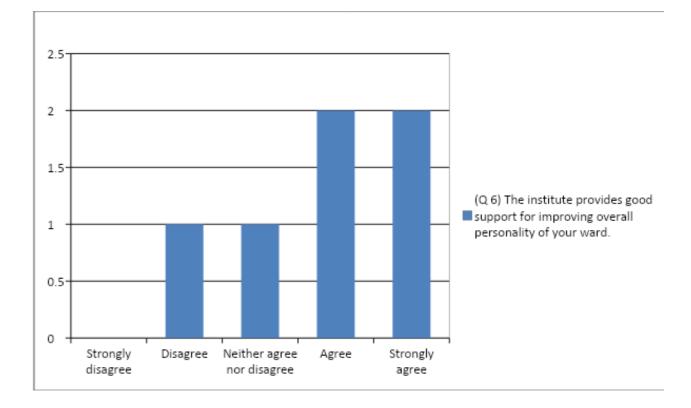


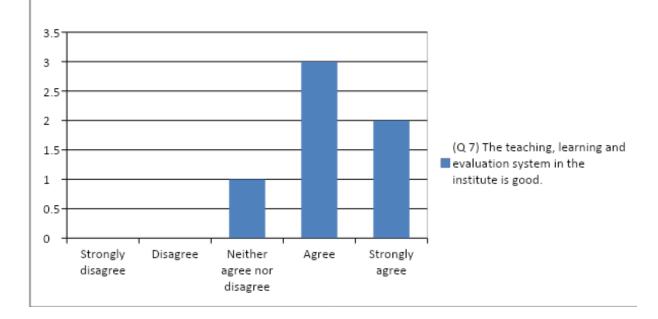


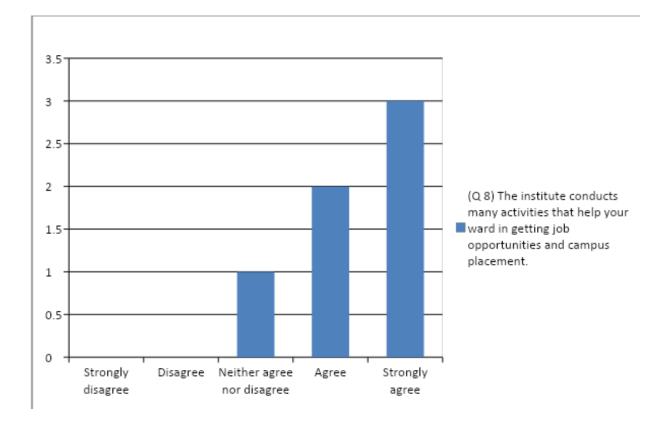


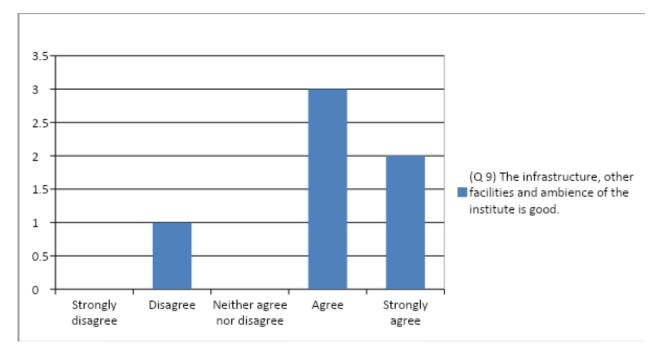


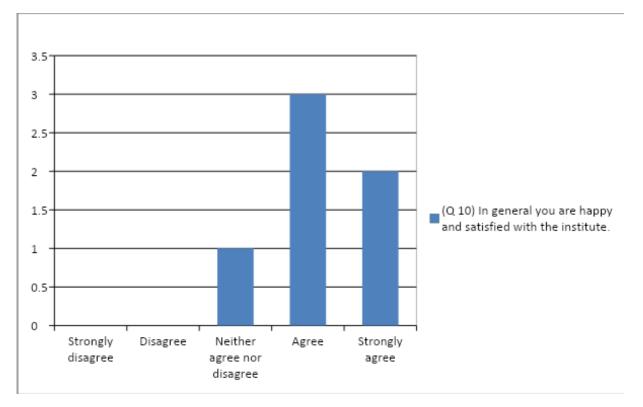


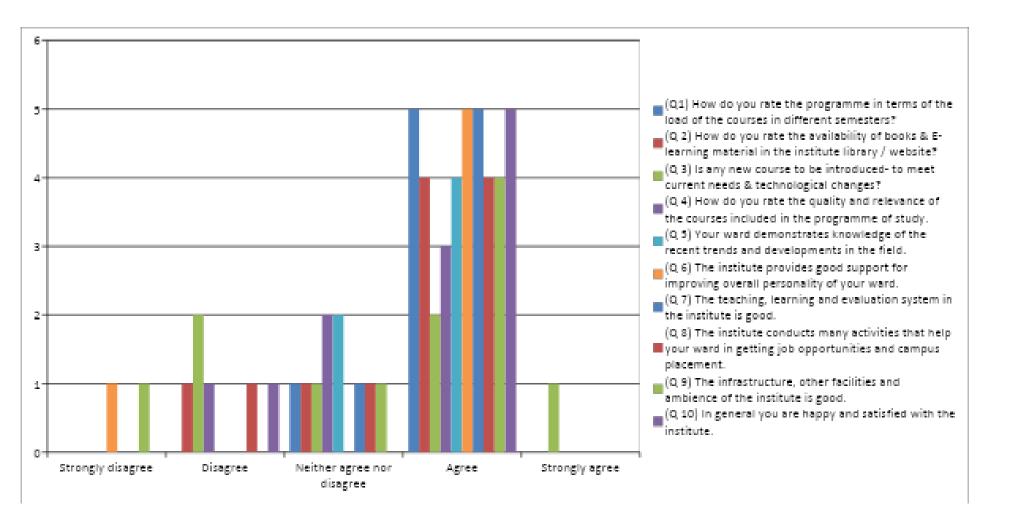








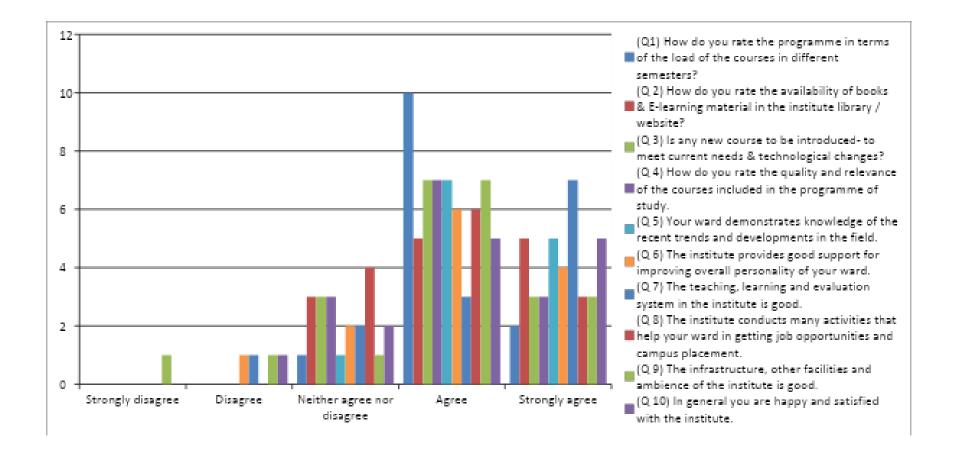




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#### Summary Sheet Parent Satisfaction survey $1^{st}$ year (2022 – 23) Sample Size: 06

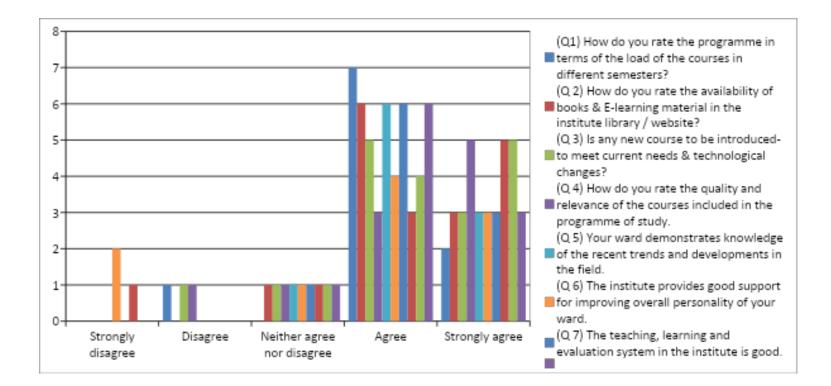
	(Q1) How do you rate the programm e in terms of the load of the courses in different semesters?	(Q 2) How do you rate the availability of books & E-learning material in the institute library / website?	(Q 3) Is any new course to be introduced- to meet current needs & technological changes?	(Q 4) How do you rate the quality and relevance of the courses included in the programm e of study.	(Q 5) Your ward demonstrates knowledge of the recent trends and development s in the field.	(Q 6) The institute provides good support for improving overall personality of your ward.	(Q 7) The teaching, learning and evaluatio n system in the institute is good.	(Q 8) The institute conducts many activities that help your ward in getting job opportunities and campus placement.	(Q 9) The infrastructure , other facilities and ambience of the institute is good.	(Q 10) In general you are happy and satisfied with the institute.
Strongly disagree	0	0	0	0	0	1	0	0	1	0
Disagree	0	1	2	1	0	0	0	1	0	1
Neither agree nor disagree	1	1	1	2	2	0	1	1	1	0
Agree	5	4	2	3	4	5	5	4	4	5
Strongly agree	0	0	1	0	0	0	0	0	0	0
Parent Satisfaction Index (PSI)	3.83	3.50	3.33	3.33	3.67	3.50	3.83	3.50	3.33	3.67



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#### Summary Sheet Parent Satisfaction survey 2<sup>nd</sup> year (2022 – 23) Sample Size: 13

	(Q1) How do you rate the programm e in terms of the load of the courses in different semesters?	(Q 2) How do you rate the availability of books & E-learning material in the institute library / website?	(Q 3) Is any new course to be introduced- to meet current needs & technological changes?	(Q 4) How do you rate the quality and relevance of the courses included in the programme of study.	(Q 5) Your ward demonstrates knowledge of the recent trends and developments in the field.	(Q 6) The institute provides good support for improving overall personality of your ward.	(Q 7) The teaching, learning and evaluation system in the institute is good.	(Q 8) The institute conducts many activities that help your ward in getting job opportunities and campus placement.	(Q 9) The infrastructure, other facilities and ambience of the institute is good.	(Q 10) In general you are happy and satisfied with the institute
Strongly disagree	0	0	0	0	0	0	0	0	1	0
Disagree	0	0	0	0	0	1	1	0	1	1
Neither agree nor disagree	1	3	3	3	1	2	2	4	1	2
Agree	10	5	7	7	7	6	3	6	7	5
Strongly agree	2	5	3	3	5	4	7	3	3	5
Parent Satisfaction Index (PSI)	4.08	4.15	4.00	4.00	4.31	4.00	4.23	3.92	3.77	4.08



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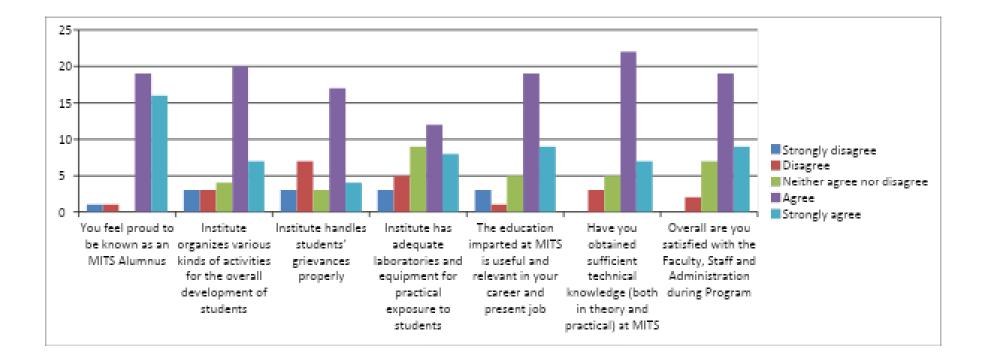
#### Summary Sheet Parent Satisfaction survey 3<sup>rd</sup> year (2022 – 23) Sample Size: 10

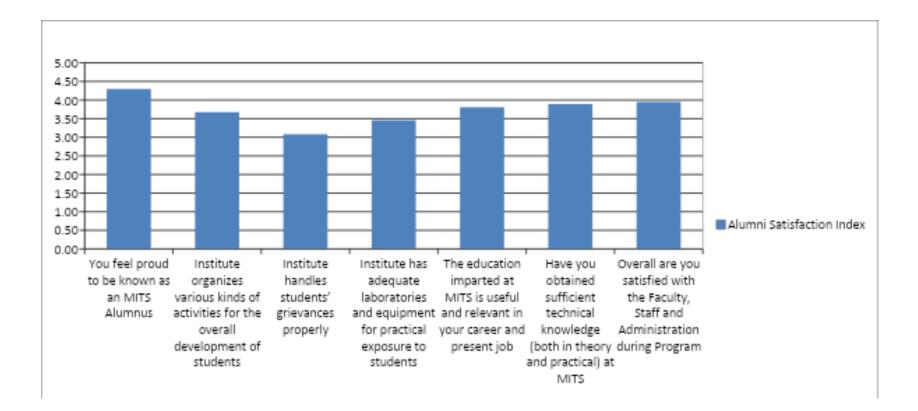
	(Q1) How do you rate the programm e in terms of the load of the courses in different semesters?	(Q 2) How do you rate the availability of books & E-learning material in the institute library / website?	(Q 3) Is any new course to be introduced- to meet current needs & technological changes?	(Q 4) How do you rate the quality and relevance of the courses included in the programme of study.	(Q 5) Your ward demonstrates knowledge of the recent trends and developments in the field.	(Q 6) The institute provides good support for improving overall personality of your ward.	(Q 7) The teaching, learning and evaluatio n system in the institute is good.	(Q 8) The institute conducts many activities that help your ward in getting job opportunitie s and campus placement.	(Q 9) The infrastructure , other facilities and ambience of the institute is good.	(Q 10) In general you are happy and satisfied with the institute.
Strongly disagree	0	0	0	0	0	2	0	1	0	0
Disagree	1	0	1	1	0	0	0	0	0	0
Neither agree nor disagree	0	1	1	1	1	1	1	1	1	1
Agree	7	6	5	3	6	4	6	3	4	6
Strongly agree	2	3	3	5	3	3	3	5	5	3
Parent Satisfaction Index (PSI)	4.00	4.20	4.00	4.20	4.20	3.60	4.20	4.10	4.40	4.20

S. No.	Comments	Action Taken				
1	Revision of syllabus is required	Already discussed and changed in BoS accordingly				
2	Need to particularly focus on practical application rather than teaching theories.	All the faculty members have been instructed to discuss the theory with some practical applications in their respective courses.				
3	Availability of Books in Library	The Library officer has been informed about the situation and also shared the list of Books.				
4	Department should have a regular industrial visits.	Department is exploring opportunity related to conduction of industrial visit.				

#### Alumni Feedback

#### ALUMNI SATISFACTION SURVEY: (2022-2023): Sample Size: 37





#### SUMMARY SHEET (Alumni Satisfaction Survey) Sample Size: 37

Parameter (Average grading)	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	Alumni Satisfaction Index
You feel proud to be known as an MITS Alumnus	1	1	0	19	16	4.30
Institute organizes various kinds of activities for the overall development of students	3	3	4	20	7	3.68
Institute handles students' grievances properly	3	7	3	17	4	3.08
Institute has adequate laboratories and equipment for practical exposure to students	3	5	9	12	8	3.46
The education imparted at MITS is useful and relevant in your career and present job	3	1	5	19	9	3.81
Have you obtained sufficient technical knowledge (both in theory and practical) at MITS	0	3	5	22	7	3.89
Overall are you satisfied with the Faculty, Staff and Administration during Program	0	2	7	19	9	3.95

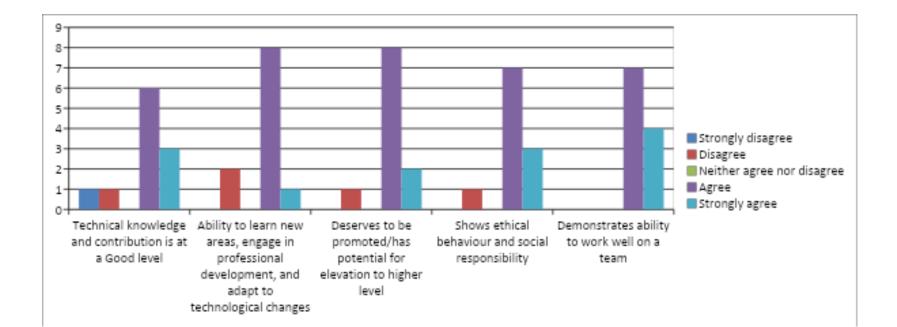
Alumni Satisfaction Index (ASI) (on a scale of 5) (5: Excellent, 4: Very Good, 3: Good, 2: Fair, 1: Poor)

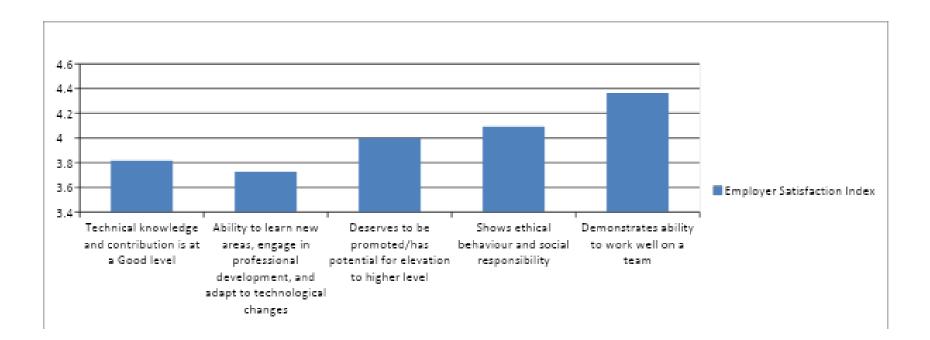
S. No.	Name	ails of Alumni who gave Feed Organization	Mail id	Phone No.
1.	Udit Singh Rajput	Pulsus Healthcare Pvt. Ltd.	rajputudit25sep@gmail.com	7999886247
2.	Kakul Joshi	DCM Shriram Rayons	skakul374@gmail.com	8109860434
3.	Vivek Singh	Lupin Limited	Vivek.singh0797@gmail.com	8153043120
4.	Sourabh Kumar Shrivastava	GACL-NALCO Alkalies And Chemicals	subh.mits88@gmail.com	-
5.	Indraneel Nandi	KBR technology	indraneel.nandi@gmail.com	9911345984
6.	Radhika Paliwal	Streamingo.ai	paliwalradhika162@gmail.com	8963914208
7.	Soniya Markam	CSIR-NML jamshedpur	Soniyamarkam397@gmail.com	9425993239
8.	Akshar Pandey	SRF Ltd	aksharpandey88@gmail.com	7814687561
9.	Lokesh Singh kisroliya	Industry	Lokeshsinghkisroliya@gmail.com	7987484361
10.	Kunjbihari Katare	Orient cement limited	kunjkatare@yahoo.co.in	7000310430
11.	Hemang Mahajani	Accenture Solutions	Hemangmahajani09@gmail.com	9039633225
12.	Mukesh Sharma	Ginni International Limited	mukesh9867436784@gmail.com	9920750749
13.	Manish Gupta	Detox India Private Limited (Veolia Water)	Manishgptind@gmail.com	7047292846
14.	Shahid mansoori	Industry	shahidcool7786@gmail.com	7869266446
15.	Rahul Gosavi	Indian Oil Corporation Limited, Panipat Refinery	rahul goswami5@rediffmail.com	9729397138
16.	Aditya Rao	Great Galleon Ventures Ltd.	adityarao2575@gmail.com	8770262082
17.	Ritu Ranjan	Dishman carbogen amcis ltd	ritu.ranjan.che16@gmail.com	9304162778
18.	Gajendra Kushwah	National fertilizer limited	gd.kushwah03@gmail.com	7772954279
19.	İmrat bihuniya	-	noddyy24@gmail.com	8839907713
20.	Abhishek Gupta	Ion Exchange	abhishek40122@gmail.com	9630882244
21.	Shivangi Sharma	Jiwaji university	shivangi887@gmail.com	8370039690
22.	Tushar Maheshwari	BORL	tshrmaheshwari@gmail.com	8109692396
23.	Himanshu Jain	LUPIN limited	himanshujain046@gmail.com	9770261004

S. No.	Comments	Action Taken
1	They must focus on the core rather making aware about other subjects	Courses are offered according NEP
2	The courses offered are only relevant upto a certain level there should be a proper commencement of newly technologies introduced in the industries then only we can make graduates ready for an industry. They must taught about the ethics and principles which one should follow while working inside the chemical industries.	New Technology and Industry related course already offered in flexible curriculum.
3	Must include an optional course on chemical/industrial operations which are practiced in different process industries.	Some Such courses are offered on NPTEL platform under DE
4	Need some courses on finance as well. Data science is an emerging field an exposure of that will be beneficial.	Regarding this Provision is there in open category courses.
5.	If possible, addition of 2-3 months of internship or practising of students in multiple industries to get contemporary knowledge in industrial operations.	Students get industrial (1 month) visit after 6 <sup>th</sup> sem and during 8 <sup>th</sup> sem most of the students are engaged with industrial internship (4-6months)

#### **Employer Feedback**

#### EMPLOYER SATISFACTION SURVEY: (2022-2023): Sample Size: 11





#### SUMMARY SHEET (Employer Satisfaction Survey) Sample Size: 11

Parameter (Average grading)	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	Employer Satisfaction Index
Technical knowledge and contribution is at a Good level	1	1	0	6	3	3.82
Ability to learn new areas, engage in professional development, and adapt to technological changes	0	2	0	8	1	3.73
Deserves to be promoted/has potential for elevation to higher level	0	1	0	8	2	4.00
Shows ethical behaviour and social responsibility	0	1	0	7	3	4.09
Demonstrates ability to work well on a team	0	0	0	7	4	4.36

Parameter (Average grading)	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree	Employer Satisfaction Index
Technical knowledge and contribution is at a Good level	1	0	0	6	2	3.89
Ability to learn new areas, engage in professional development, and adapt to technological changes	0	1	0	7	1	3.89
Deserves to be promoted/has potential for elevation to higher level	0	0	0	7	2	4.22
Shows ethical behaviour and social responsibility	0	1	0	5	3	4.11
Demonstrates ability to work well on a team	0	0	0	5	4	4.44
Employer Satisfaction Index (ESI) (on a scale of 5) (5: Excellent, 4: Very Good, 3: Good, 2: Fair, 1: Poor)						

