# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute, Affiliated to RGPV, Bhopal)

## Department of Information Technology

# Analysis Report of Feedback on Course Curriculum Collected from various Stakeholders

S.N	Feedback Report	Page No.
0.		·
1.	COURSE CURRICULUM FEEDBACK by Students (Nov. 2022 to March 2023) (1stSem)	1-9
2.	COURSE CURRICULUM FEEDBACK by Faculty (Nov. 2022 to March 2023) (1stSem)	10-13
3.	Alumni Feedback:	
İ	https://docs.google.com/document/d/1HOah3sE 6_riUixA5vOvNgubNGBftkpU/edit?usp=	share: link&ouid=103555980183400298166
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# Session wise analysis and impact report: Nov. 2022- March 2023(1st Sem.)

Based on the feedback data received from total 716 (Approximate) students and 16 faculty members (First semester- IT, IT-AIR, IT-IoT, AIML, AIDS) for the academic session Nov. to March 2023, following points have been analysed:

- It has been observed that, in first semester 45.52% of students are strongly agreed, 30.74% of students are agreed, 20.19% of students are neutral, 3.55% of students are disagreed and no students are strongly disagreed with the syllabus/ content that they have studied in the first semester.
- Some students have suggested to remove:
  - o Remove K-Map from Digital logic design.
  - o Reduce theoretical part from unit 4 and 5 from Introduction to AIDS syllabus.
  - o Reduced the weightage of transformer from syllabus of BEE.
  - o Update content of NestedIF and array from Computer Programming.
- · Students have suggested to add
  - New Course / Content related to problem solving in programming and CPP real life project development through Devops.
  - o Content of ML practical problem, SVM in course of "Introduction in AIDS".

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- o Content of software designing implementation in course.
- o Vector Library and API's in computer programming.
- Students have suggested to add course under Honours, Minor specialization, Departmental electives and Open electives such as:
  - o Advance CPP, Computer Application in Business, Quantum computing, Game development, Information Security, Dynamic programming for campus placement, Ethical hacking, Web3, Psychology, electronics for robotics and automation system etc.
- It has been observed that, in first semester 60% of faculty members are strongly agreed, 37.5% of faculty members are agreed, 1.25 are neural, 1.25 are disagree with the curriculum, syllabus/ content that they have taught in the first semester.

### COURSE CURRICULUM FEEDBACK (by Students on MOODLE): Sample Size: 37 (Avg.)

Subject Name	Student Feedback	(Comments)	Response to student comments / Analysis
id odak ks belom k light	Mention the course / contents which in your opinion is outdated & needs to be removed.	Nested IF, Array	This content is necessary for programming.
Salphy 1.	Name course / contents which needs to be updated.	Structure, Pointer, function, string, OOPS concept	Already part of syllabus of Computer Programming.
160122/Computer Programming in:	Is any new course required to meet current needs?	Some more problem solving, Information to IT, Software designing implementation	There is a SIP running on first year on Problem solving through programming where students can solve many problems related to programming. And Introduction to IT is already a part of current scheme and Software engineering will be a subject in further semester where students will cover software designing implementation part.
M. J. M. T. C.	Honours:	OOPS, Computer Programming	Already part of syllabus.
	ivinos specialización.	Inheritance, Computer network, OOPS	Inheritance and OOPS already part of programming syllabus and computer networks will study in upcoming semesters as departmental core.
	Departmental electives:	Function, Digital logics	Function concept already available in syllabus of Computer Programming, and Digital logic already in current semester, it is core subject of IT, so need to require this departmental elective.
	Open electives:	Array, Physics	Already studied in syllabus of Computer programming, and Physics covered in syllabus of engineering Physics.
100022/Basic	Departmental electives	Digital logic design	Will be Discussed

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	Electricals Electronics Engineering	Mention the course / contents which in your opinion is outdated & needs to be removed.	I think there is too much weightage on transformers which should be reduced					
	230122/Computer Programming	Open electives:	Computer application in business	Put these matter in Departmental committee Topics, content and courses will be updated and remove in syllabus,				
	Trogramming.	Honours:	Advanced C++	after discussion with subject faculty and HoD.				
	· · · · · · · · · · · · · · · · · · ·	Honours:	Quantum Computing, there should be more algorithms	Topics/ content and courses will be updated and remove in syllabus, after discussion with Department faculties and Head.				
	240121/Introduction to AI	Minor specialization:	Game Development, There was less robotics in it	Information security: Network And Web Security is already running in 4th semester.				
	1	Departmental electives:	Information security	Ethical hacking: can be covered in Cyber security & information				
	control of the contro	Open electives:	Dynamic Programming for Campus Placements Ethical hacking	security				
		Is any new course required to meet current needs?	Semiconductors					
		Honours:	Ethical hacking Information Security					
	240123/Digital Logic Design	Minor specialization:	Block chain hardware security Ethical hacking	Topics, content and courses will be updated and remove in syllabus, after discussion with Department faculties and HoD.				
	· ····	Departmental electives:	Computer Hardware Block Chain HTML Cyber security	Cyber security, information security and HTML already part of curriculum (students will study in upcoming semesters)				
$\bowtie$		Open electives:	Marketing	]				
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22. 25%	Mention the course / contents which in your opinion is outdated & needs to be removed.	Unit 4 and 5 are consist too much theoretical	
270121/Introduction to AIDS	Name course / contents which needs to be updated.	way in unit 4 and 5 in which we can understand NLP and other tools ,, and there must be some minor practical project in unit 3,4,5 in which we can apply ML practically on datasets	ML, SVM, Soft Skill, Electronics and cloud computing already part of curriculum (students will study in upcoming semesters)  Topics, content and courses will be updated (like Intro to haskell programming,) and remove in syllabus or curriculum, after discussion
1	Is any new course required to meet current needs?	the SVM should be included in this course	with Department faculties.
46 (46.1) 46 (46.1)	Honours:	Cloud computing, Intro to haskell programming, Blockchain	
	Minor specialization: Departmental electives: Open electives:	Electronics Soft skills Bhagvat Gita	
100022/Basic	Minor specialization:	System Design	
Electrical Electronics Engineering	Departmental electives:	electronics for robotics and automation system	System design will study in upcoming semesters. (Already part of curriculum)
280122/Computer	Mention the course / contents which in your opinion is outdated & needs to be removed.	Memory Management through C programming	There tonics will study in proposite acceptant
Programming	Name course / contents which needs to be updated.  Is any new course required to	Cpp Real life project Deployment through devops Vector <u>library</u> and	These topics will study in upcoming semesters.

1135 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Action Taken (threshold value 3.5)	After the compilation of data (s satisfied with the courses they I Moreover their suggestions are	nave studied. Howevej		•	• •		-
Link	https://drive.google.com/driv	e/folders/1wmTaDE	V1R KE	nH6a7GFUAiG	XIQOxBfvJ?us	p=share link	
	Name course / contents which needs to be updated.	Circuits	Insuff	icient input			•
280123/Digital Logic Design	Mention the course / contents which in your opinion is outdated & needs to be removed.	К-Мар	Learn	ing of Simplifica tant	ation of boolean	expression usi	ng k-map is
· · · · · · · · · · · · · · · · · · ·	(III) Departmental electives: (iv) Open electives:	Business, Finance Psychology			,		
nirodus!	(i) Honours: (ii) Minor specialization:	Introduction to devops Web3					
	meet current needs?	few renounedapi's should be taught					

Subject Code / Subject Name (no. of students attempted feedback)	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 expectation s	7. The course was relevant and updated for present needs
160121/Introduction to IT (55)	3.89	3.95	4.11	4.18	4.00	4.02	3.95
160122/Computer Programming(58)	4.14	4.00	3.97	4.02	4.17	4.26	4.28
160123/Digital Logic Design (36)	3.97	3.89	3.89	4.06	4.11	3.97	3.78
160124/Discrete Structure (37)	4.05	4.00	4.19	4.11	4.24	4.22	4.27

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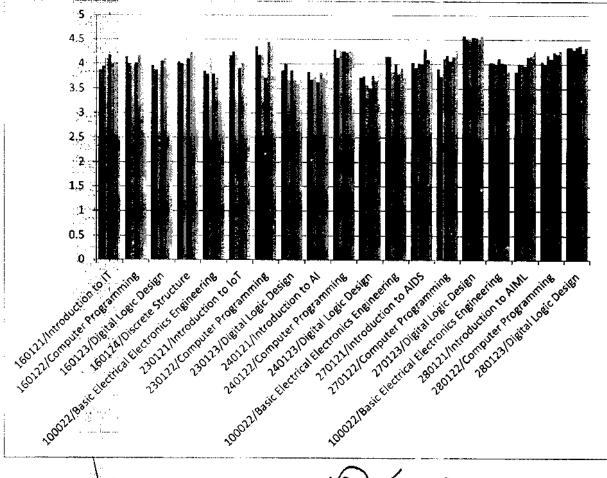
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230121/Introduction to IoT (12) 230122/Computer Programming	4.36	4.18	4.18	3.72	4.45	4.36	4.1
(11) 230123/Digital Logic Design (15)	3.87	4.00	3.67	3.87	3.67	3.60	3.6
240121/Introduction to Al (33)	3.84	3.69	3.75	3.63	3.84	3.72	3.8
240122/Computer Programming (34)	4.29	4.12	4.26	4.26	4.24	4.26	4.3
240123/Digital Logic Design (54)	3.74	3.76	3.59	3.52	3.78	3.67	3.8
100022 Basic Electrical Electronics Engineering (26)	4.15	4.15	3.85	4.00	3.81	3.92	3.7
270121/Introduction to AIDS (29)	4.03	3.93	4.03	4.00	4.31	4.10	4.1
270122/Computer Programming (33)	3.91	3.76	4.12	4.18	4.06	4.15	4.2
270123/Digital Logic Design (31)	4.58	4.51	4.48	4.54	4.54	4.51	4.5
100022/Basic Electrical Electronics Engineering (36)	4.03	4.03	4.00	4.11	4.03	4.00	3.8
280121/Introduction to AIML (28)	3.85	4	4	3.96	4.14	4.17	4.2
280122/Computer Programming (37)	4.05	4	4.18	4.11	4.24	4.21	4.2
280123/Digital Logic Design (26)	4.34	4.34	4.30	4.34	4.38	4.23	4.3
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- ■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

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Subject Name	Semester	Faculty Name	Strongly Agree in %	Agree in %	Neutral in %	Disagree in %	Strongly disagree in %
160121/Introduction to IT	1	AdityaDubey	36.10	34.55	23.90	5.45	0.00
160122/Computer Programming	1	Dr. DhananjayBisen	43.60	29.80	22.17	3.69	0.74
160123/Digital Logic Design	1	Dr. NidhiSaxena	32.94	37.70	21.43	7.54	0.40
160124/Discrete Structure	1	Dr. VikramRajpoot	39.38	40.15	17.37	2.70	0.39
100022/Basic Electrical Electronics Engineering	1	Dr. Tej Singh	28.78	31.02	25.92	11.84	2.45
230121/Introduction to IoT	1	VikasSejwar	40.00	20.00	40.00	0.00	0.00
230122/Computer Programming	1	Dr. Sanjiv Sharma	40.00	40.00	18.18	1.82	0.00
230123/Digital Logic Design	1	Dr. PawanDubey	17.14	49.52	27.62	3.81	1.90
240121/Introduction to AI	1	AbhilashSonkar	26.84	35.50	27.2?	8.23	2.16
240122/Computer Programming	1	AdityaDubey	47.06	37.39	9.66	5.88	0.00
240123/Digital Logic Design	1	Dr. Punit Kumar Johari	25.93	29.10	35.19	7.94	1.85
100022/Basic Electrical Electronics Engineering	1	Dr.PawanDubey	29.67	42.31	22.53	3.85	1.65
270121/Introduction to AIDS	1	Dr. Bhagat Singh Raghuwanshi	44.83	23.15	27.59	4.43	0.00
270122/Computer Programming	1	AdityaDubey	37.66	36.36	20.78	5.19	0.00
270123/Digital Logic Design	1	Dr. Abhishek Dixit	64.06	26.27	9.22	0.46	0.00
100022/Basic Electrical Electronics Engineering	1	Dr.NidhiSaxena	32.94	38.89	24.21	3.97	0.00
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Proceedings of the Control of the Co	<u>, —</u>	Average	45.52	30.74	20.19	3.55	0.00
280123/Digital Logic Design	1	Dr. SaumilMaheshwari	54.94	26.92	16.48	1.64	0
280122/Computer Programming	1	Mir Shahnawaz Ahmad	39.38	40.15	17.37	2.70	0.39
280121/Introduction to AIML	1	Dr. Bhagat Singh Raghuwanshi	36.73	36.22	23.47	3.57	0.00

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### **COURSE CURRICULUM FEEDBACK (by Faculty on MOODLE)**

#### Action taken (threshold value 3.5)

As per given suggestions of faculty members, it is observed that most of the faculty members have satisfied with course content, curriculum/ syllabus and the related other parameters of first semester. The curriculum is capable of inculcating life-long learning abilities in students. Syllabus is updated as per the requirement of current scenario wrt Industry demand and research aspect as well.

Link: https://docs.google.com/spreadsheets/d/1qIJUbGQ4-

Wv1vOcrvJ7lrujzPsm\_p6sw/edit?usp=share\_link&ouid=103555980183400298166&rtpof=true&sd=true

S.N.	Faculty Name	Subject Code/ Subject Name	1. The availability of books & E-learning material in the institute is good. (Please give your opinion)	2. The Courses and content are up to date. Please suggest if you feel any new course(s) need to be introduced to meet current needs & technological changes?	3. The course curriculum/syllabi are helpful in meeting the higher studies/placement requirements according to present global trends. (Please give suggestions if any)	4. The course / contents in your domain/area are well designed and frequently updated, hence need no changes at present. [If you feel some changes (new content to be added or outdated content to be removed) are needed, please suggest]	5. The curriculum is capable of inculcating lifelong learning abilities in students. (Any suggestions, please give below)
	Dr. Nidhi Saxena	100022/Basic Electrical				suggest	
l	Dr. Nidili Saxella	Electronics Engineering	4	4	4	4	4
	Dr.Tej singh	100022/Basic Electrical					
2	Di. (G) singu	Electronics Engineering	2	3	4	4	4
3	Dr. Vikram Rajpoot	160124/Discrete Structure	5	4	4	5	5
4	Dr. Abhishek Dixit	240123/Digital Logic Design	5	5	4	5	4
5	Prof. Aditya Dubey	240122/Computer Programming	5	5	5	5	5
	Dr. Bhagat Singh						
$\sqrt{\frac{6}{}}$	Raghuwanshi	270121/Introduction to AIDS	5	4	4	4	4

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7 Dr. Saumil Mahesl	iwari   280123/Digital Logic Design	4	5	5	5	
8 Dr. Nidhi Saxena		4	4	4	4	-
9 Prof. Aditya Dube	240122/Computer Programming	5	5	5	5	
10 Dr. Tej Singh	250125/Digital Logic Design	5	5	5	5	
11 Dr. Sanjiv Sharma	230122/Computer Programming	4	4	5	4	5
12 Prof. Aditya Dube	y 160121/Introduction to IT	5	5	5	5	
Dr. Bhagat Singh						<u> </u>
13 Raghuwanshi	280121/Introduction to AIML	4	5	5	4	4
Prof. Mir Shahnaw	az					
14 Ahmad	280122/Computer Programming	5	5	5	5	5
15 Dr. Dhananjay Bis	en 160122/Computer Programming	5	5	5	5	5
16 Prof. Vikas Sejwai	230121/Introduction to IoT	4	5	5	4	
Course Satisfaction	on Index (CSI) (on a scale of 5) (5: Strongly	Agree, 4: Agree,	3: Neutral. 2: Disa	gree. 1: Strangly disa	Gree)	···-

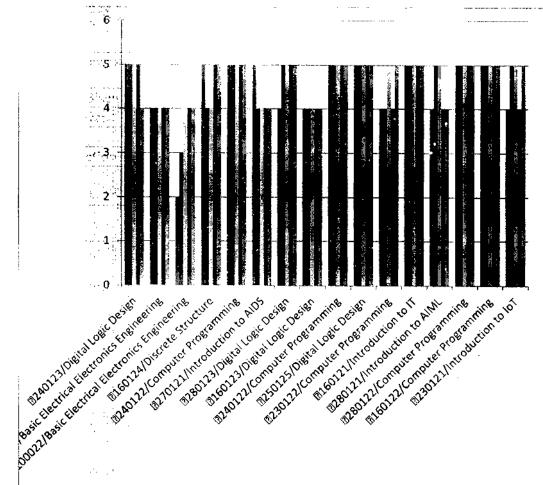
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■ 1. The availability of books & E-learning material in the institute is good. (Please give your opinion)

- 2. The Courses and content are up to date. Please suggest if you feel any new course(s) need to be introduced to meet current needs & technological changes?
- 3. The course curriculum/syllabi are helpful in meeting the higher studies/placement requirements according to present global trends. (Please give suggestions if any)
- 4. The course / contents in your domain/area are well designed and frequently updated, hence need no changes at present. [If you feel some changes (new content to be added or outdated content to be removed) are needed, please suggest]
- 5. The curriculum is capable of inculcating lifelong learning abilities in students. (Any suggestions, please give below)

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		R	esponse in %		
Curriculum Evaluation Point	Strongly disagree	Disagree	Neutral	Agree	Strongly Agree
1. The availability of books & E-learning material in the institute is good. (Please give your opinion)	0	6.25	0	37.5	56.25
2. The Courses and content are up to date. Please suggest if you feel any new course(s) need to be introduced to meet current needs & technological changes?	0		6.25	31.25	62.5
3. The course curriculum/syllabi are helpful in meeting the higher studies/placement requirements according to present global trends. (Please give suggestions if any)	0	0	0	37.5	62.5
4. The course / contents in your domain/area are well designed and frequently updated, hence need no changes at present. [If you feel some changes (new content to be added or outdated content to be removed) are needed, please suggest.	0	0	0	43.75	56.25
5. The curriculum is capable of inculcating life-long learning abilities in students. (Any suggestions, please give below)	0	0	0	37.5	62.5
Total	Ō	1.25	1.25	37.5	60

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### **Department of Information Technology**

## Alumni Feedback

## **Analysis and Impact Report:**

Based on the feedback data received from total 48 Alumni of above mentioned batch following points have been analyzed:

- It has been analyzed that 32.61% of students are strongly agreed, 50% of students are agreed, 15.22% of students are neutral, and 2.17% of students are disagreed with Course content which is interesting and as per Industry needs.
- It is found that 28.26 % of students are strongly agreed, 50% of students are agreed, 13.04% of students are neutral, and 8.69% of students are disagreed to apply, analyze, design and create products and solutions for real life engineering problems.

S.	Comments	Action Taken	Result	
No.				
1	Need to more focus on programming	To inculcate the habit of	Implemented	
	using data structure, or split data structure	coding, mini skill project has		
	in two parts so it will be beneficial for	already incorporated as a part		
	students to focus more and more.	of scheme.		
2	focus on development section, which is	Mini skill project and	Implemented	
	very useful for grab a job in service based	proficiency in subjects enhance	-	
	companies	the students' power of thinking		
	•	and coding.		
3	Try to add course regarding remove	Self-study & seminar gives a		
	nervousness during interviews	platform to the student where	Implemented	
		he can improve himself write		
		communication.		
4	Small Projects based on domain should	To inculcate the habit of	Implemented	
	be given in every semester, so that	coding, mini skill project has	·	
	students gain knowledge and develop	already incorporated as a part		
	interest the term of the second	of scheme.		
5	Last 3 semester's subjects were totally	According to the recent		
	from non IT background. Try to teach	scenario, and request of so	Proposed for discussion	
•	latest technology instead, so that it will	many students to teach at least	-	

Department of Information Technology

Page 1

Page 1

Page 1

Page 1

Page 1

Page 1

	be helpful for placements	2-3 subjects from other discipline so that they can be more versatile.			
6	More practical Labs than Theory classes	Try to add practicals where not included, and add more practicals where already included for practice.	Discussed		
7	Constant updation of curriculum to be industry ready	Suggestions required from industry. Workshops will be conducted with them and will take meetings from alumni.	Implemented		
Š	focus more on Al and machine learning	This course has already added in higher semesters.	Implemented		
9	Internship and coding please	As a part of curriculum, department offers internships to lower semester students and allow higher semester students to go for internships rather than project. Department placement cell also suggest them good company's for internships.	Implemented		
10	Data science problem solving	This course has already added in higher semesters.	Implemented		
11	Basic need of understanding of current technology management	Mini skill project and proficiency in subjects enhance the students' power of thinking and coding.	Implemented		
12	More technology and companies must be invited for placements	T&P cell and department is trying to contact with many companies continuously.	In progress		
13	Include more practical lectures than theoretical ones	Try to add practicals where not included, and add more practicals where already included for practice.	Discussed		
14	It should include international courses too like Coursera and edx	Students are free for attend any international courses	Discussed		

Department of Information Technology

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Page 2

PARAMETERS	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly disagree (1)
Course content is interesting and as per Industry needs	15	24	7	1	1
Are you able To apply, analyze, design and create products and solutions for real life Engineering problems	. 13	24	6	4	1
Do you feel that you are capable of learning new things in the constantly changing technological world?	7	27	10	3	1
Do you find yourself capable of making a good career	7	29	10	2	0
Do you feel that you are able to manage projects in an ethical manner and work efficiently as a member/leader of multidisciplinary teams.	11	26	9	2	0
Courses meet contemporary requirements	6	27	13		()
Reading material regarding curriculum is easily available	7	22	18	1	0 .
Syllabus enhances employability	6	27	13	2	0
Link of the Alumni feedback	https://docs.google.com/spreadsheets/d/1hi_25OhnOoq8xWH9qY6tfzFo GqNZ0btTWTVXMbH4by4/edit?usp=sharing				

Department of Information Technology

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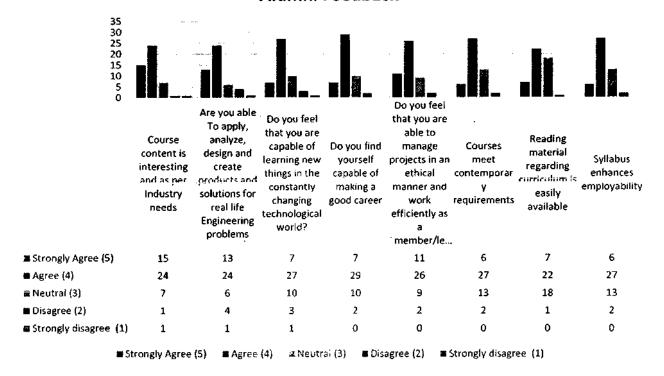
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### Alumni Feedback



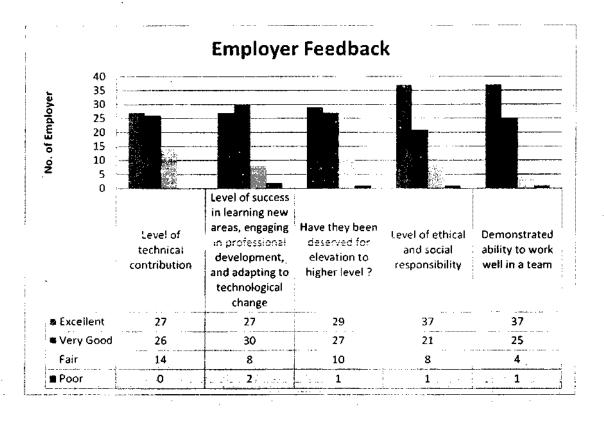
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#### **EMPLOYER SATISFACTION SURVEY**

Sample Size: 67

Parameter (MITS Student working under you or in your Organization)	Excellent	Very Good	Fair	Poor	Employer Satisfaction Index
Level of technical contribution	• 27	26	14	0	4.19
Level of success in learning new areas, engaging in professional development, and adapting to technological change	27	30	8	2	4.16
Have they been deserved for elevation to higher level?	29	27	10	1	4.22
Level of ethical and social responsibility	37	21	8	1	4.37
Demonstrated ability to work well in a team	37	25	4	1	4.43

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



#### Department of Information Technology

Page 5

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#### Link of Employer Feedback

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Page 6

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