

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.)

A Govt. Aided UGC Autonomous & NAAC Accredited Institute, Affiliated to R.G.P.V, Bhopal

Department of Mechanical Engineering

Annexure-XI

Item ME11: To review curricula feedback from various stakeholders, its analysis and impact

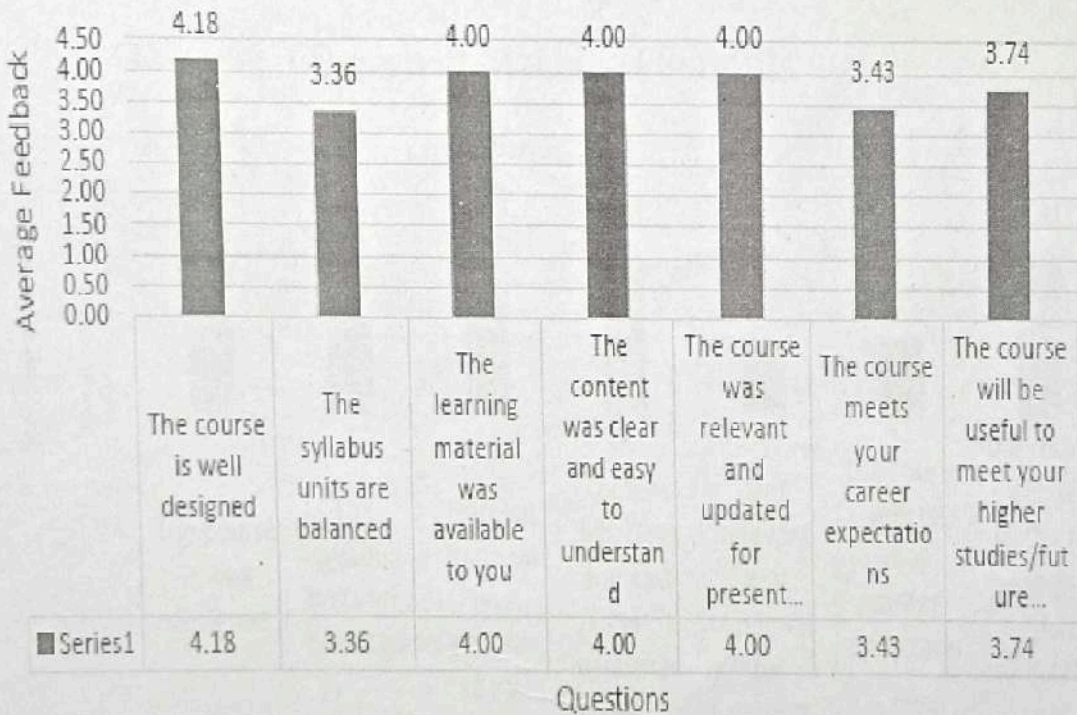
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt Aided UGC-Autonomous Institute affiliated to RGPV, Bhopal)
DEPARTMENT OF MECHANICAL ENGINEERING
To review curricula feedback from various stakeholders, its analysis and impact

July 2020 to December 2020	3rd Semester	5th Semester	7th Semester		
Number of Registered Students	142	132	135		
Number of Feedback given	40	68	69		
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
3rd Semester	23	15	1	1	0
5th Semester	30	35	2	1	0
7th Semester	37	27	3	2	0

FLUID MECHANICS AND HYDRAULIC MACHINES

Questions	Average Feedback (Out of 5)
The course is well designed	4.18
The syllabus units are balanced	3.36
The learning material was available to you	4.00
The content was clear and easy to understand	4.00
The course was relevant and updated for present needs	4.00
The course meets your career expectations	3.43
The course will be useful to meet your higher studies/future aspirations.	3.74

Fluid Mechanics and Hydraulic Machines



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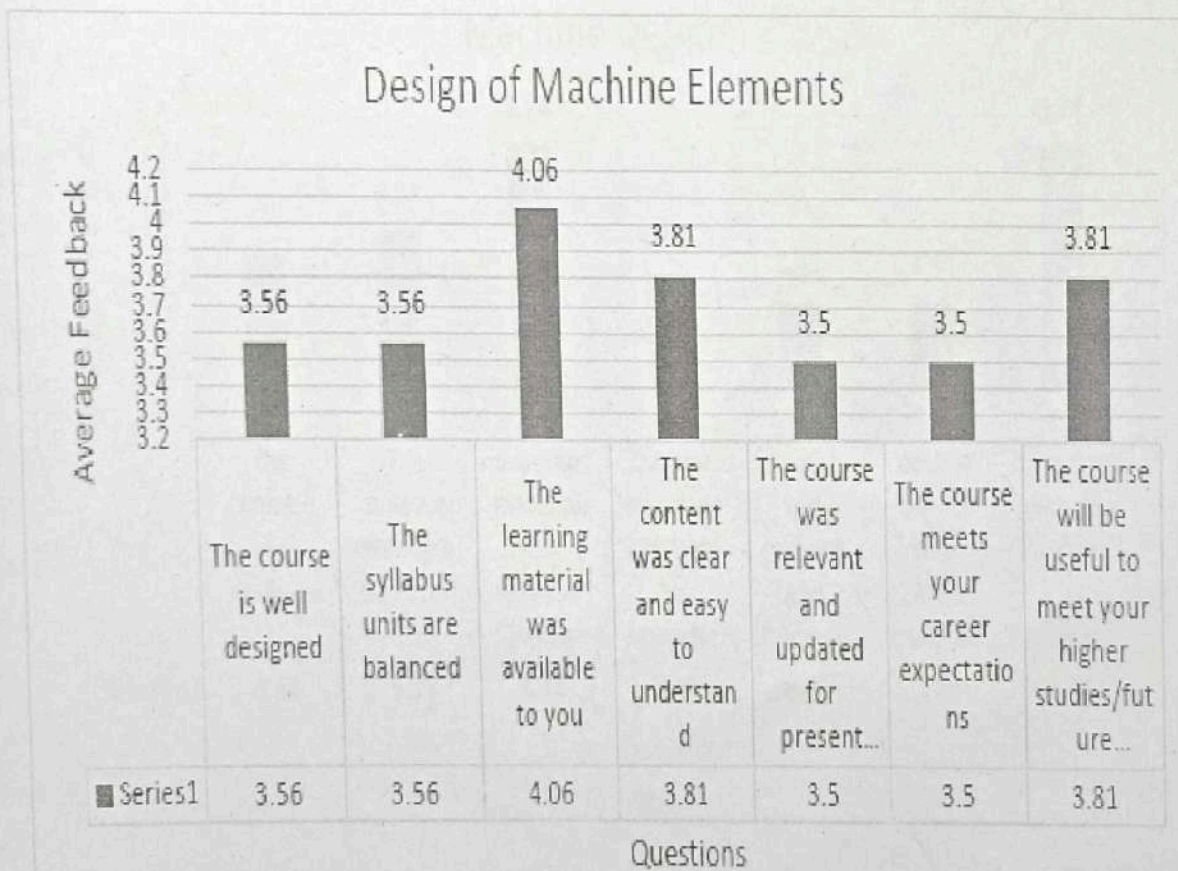
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Design of Machine Elements

Questions	Average Feedback (Out of 5)
The course is well designed	3.56
The syllabus units are balanced	3.56
The learning material was available to you	4.06
The content was clear and easy to understand	3.81
The course was relevant and updated for present needs	3.5
The course meets your career expectations	3.5
The course will be useful to meet your higher studies/future aspirations.	3.81



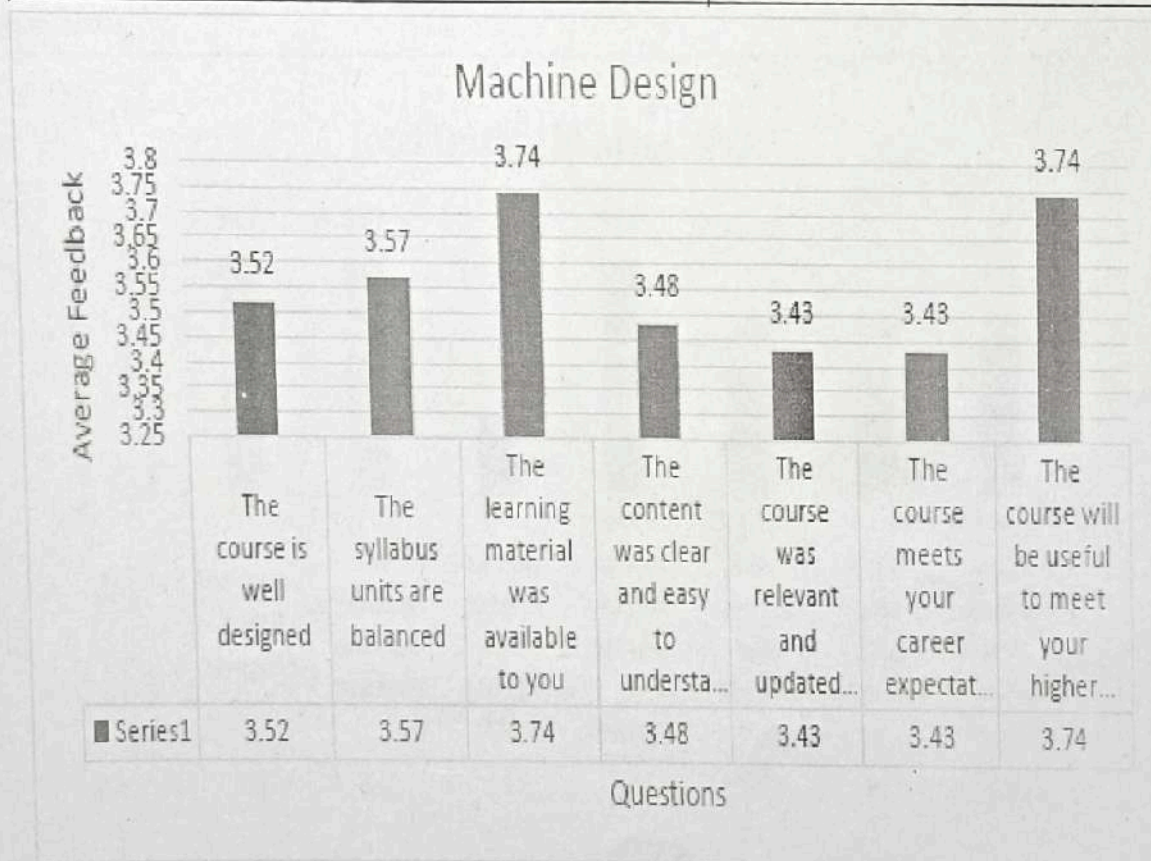
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Machine Design	
Questions	Average Feedback (Out of 5)
The course is well designed	3.52
The syllabus units are balanced	3.57
The learning material was available to you	3.74
The content was clear and easy to understand	3.48
The course was relevant and updated for present needs	3.43
The course meets your career expectations	3.43
The course will be useful to meet your higher studies/future aspirations.	3.74



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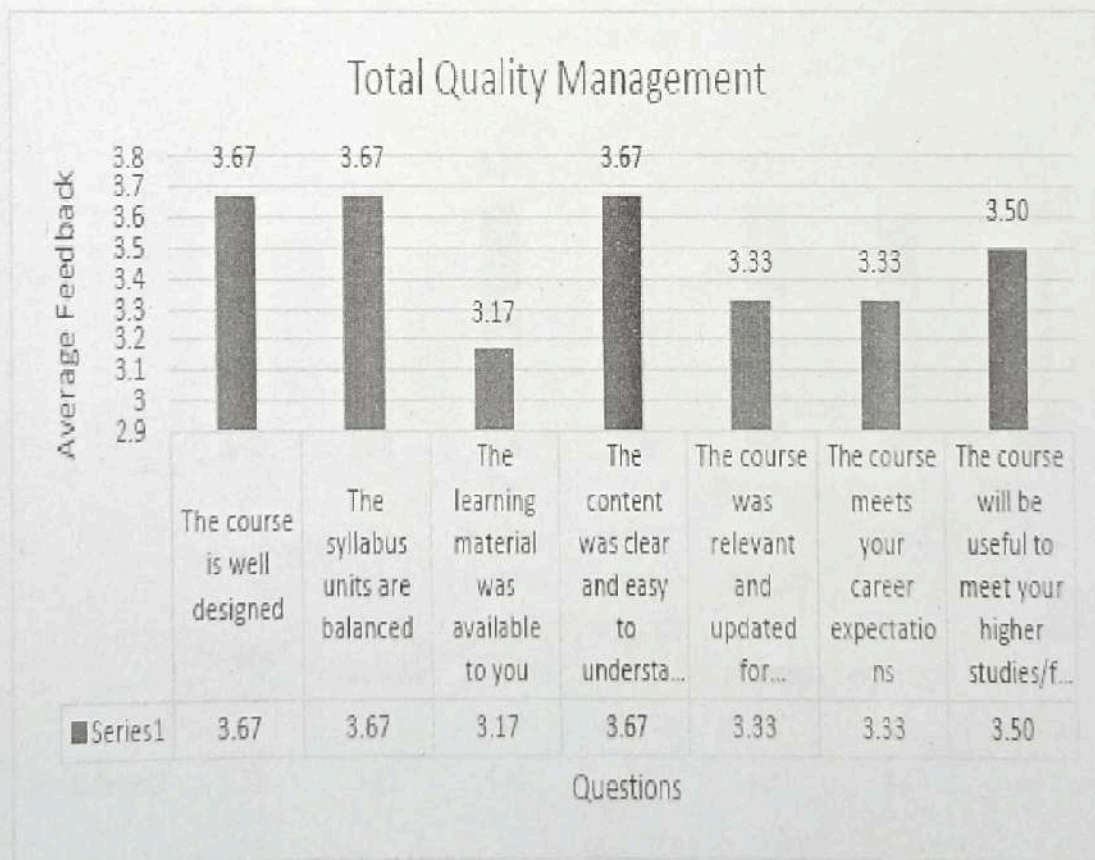
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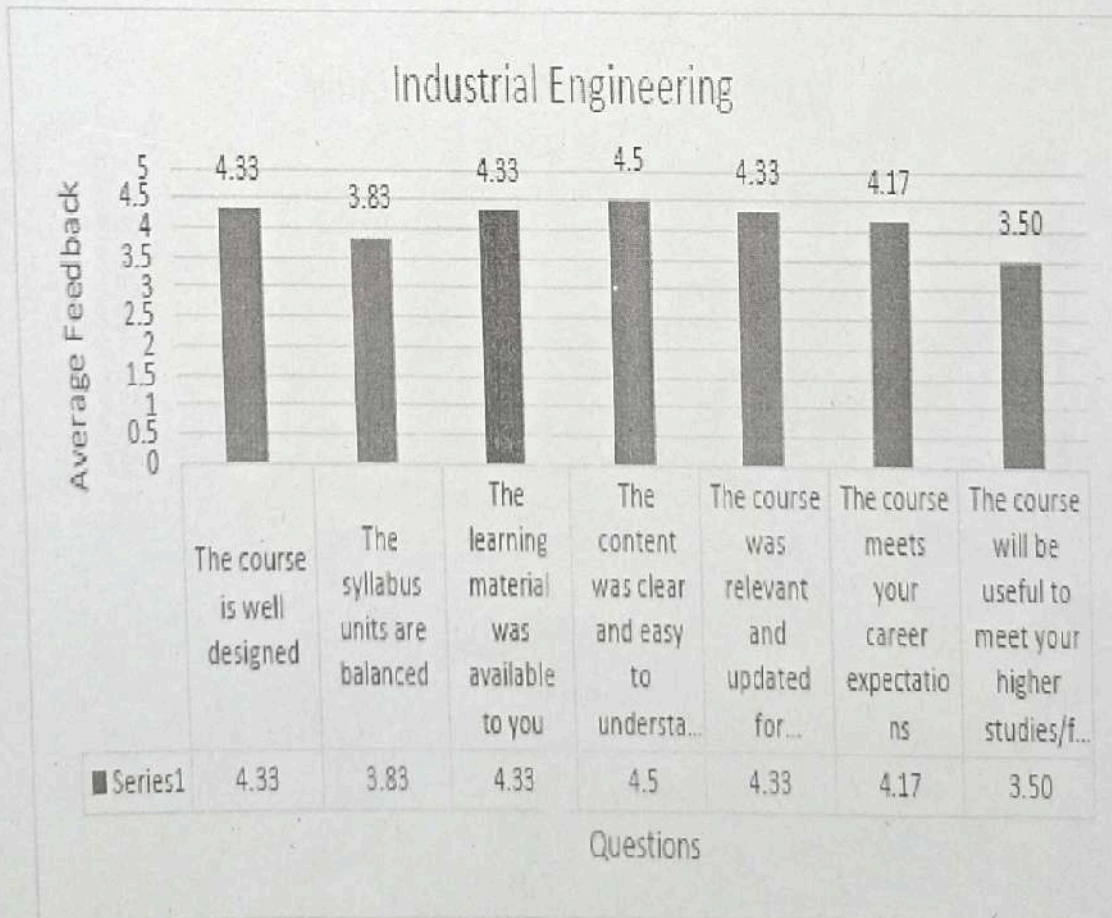
Department of Mechanical Engineering

Total Quality Management	
Questions	Average Feedback (Out of 5)
The course is well designed	3.67
The syllabus units are balanced	3.67
The learning material was available to you	3.17
The content was clear and easy to understand	3.67
The course was relevant and updated for present needs	3.33
The course meets your career expectations	3.33
The course will be useful to meet your higher studies/future aspirations.	3.50



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 K. Madhu
 M. [Signature]
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Industrial Engineering	
Questions	Average Feedback (Out of 5)
The course is well designed	4.33
The syllabus units are balanced	3.83
The learning material was available to you	4.33
The content was clear and easy to understand	4.5
The course was relevant and updated for present needs	4.33
The course meets your career expectations	4.17
The course will be useful to meet your higher studies/future aspirations.	3.50

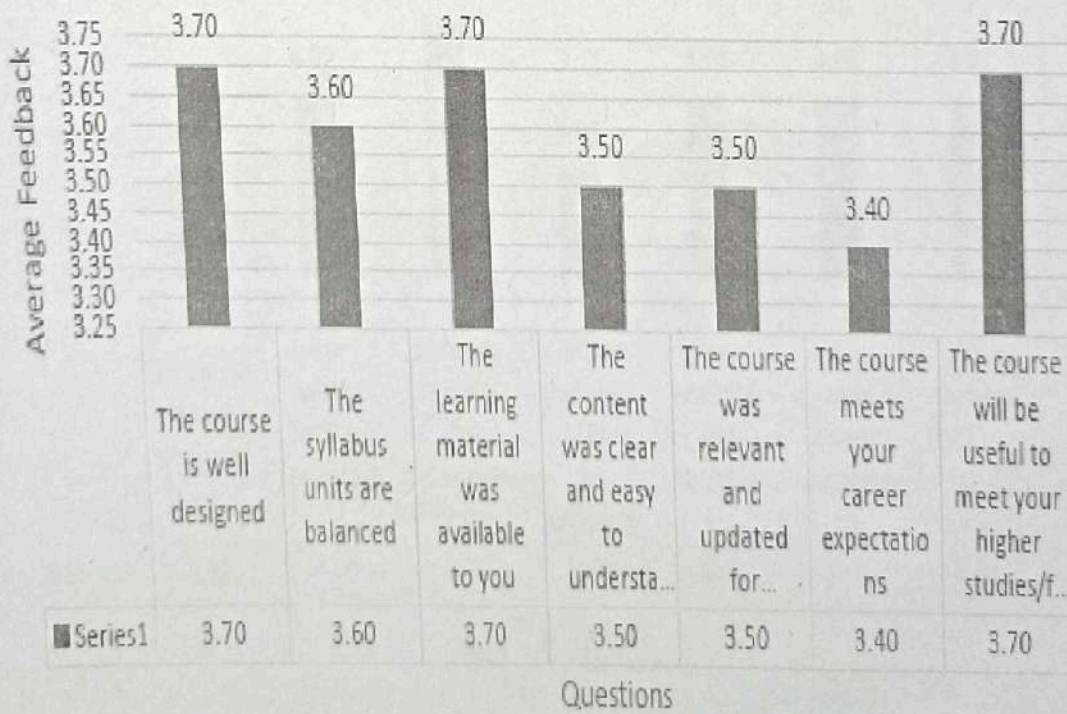


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Vibration and Noise Engineering

Questions	Average Feedback (Out of 5)
The course is well designed	3.70
The syllabus units are balanced	3.60
The learning material was available to you	3.70
The content was clear and easy to understand	3.50
The course was relevant and updated for present needs	3.50
The course meets your career expectations	3.40
The course will be useful to meet your higher studies/future aspirations.	3.70

Vibration and Noise Engineering

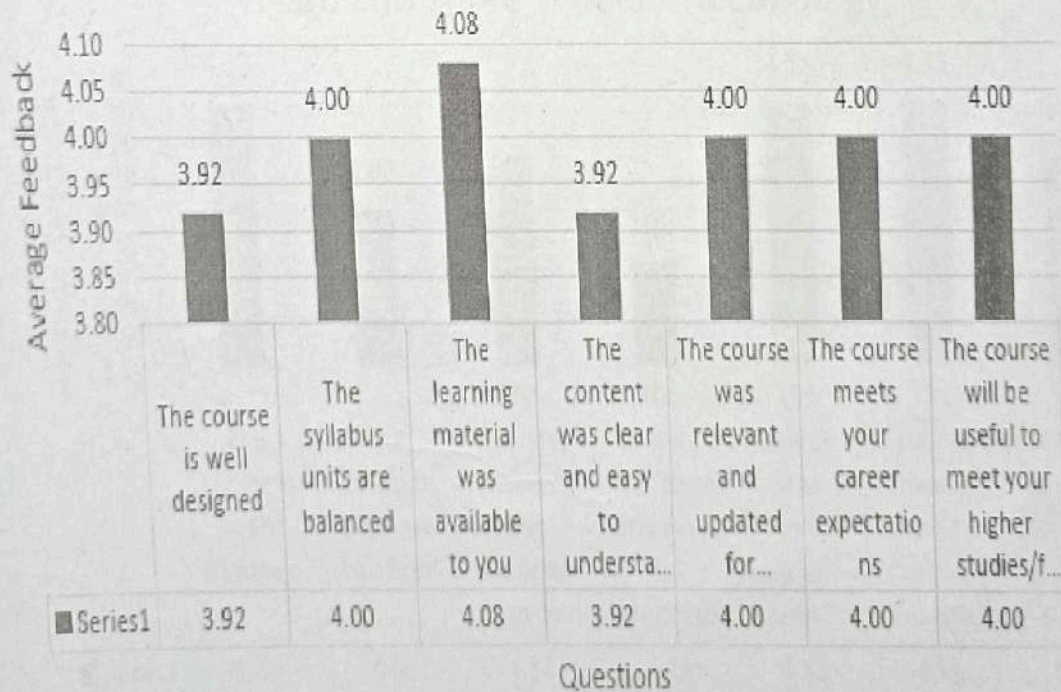


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P. K.
W. W.
M. M.
B.

Hybrid Electrical Vehicle

Questions	Average Feedback (Out of 5)
The course is well designed	3.92
The syllabus units are balanced	4.00
The learning material was available to you	4.08
The content was clear and easy to understand	3.92
The course was relevant and updated for present needs	4.00
The course meets your career expectations	4.00
The course will be useful to meet your higher studies/future aspirations.	4.00

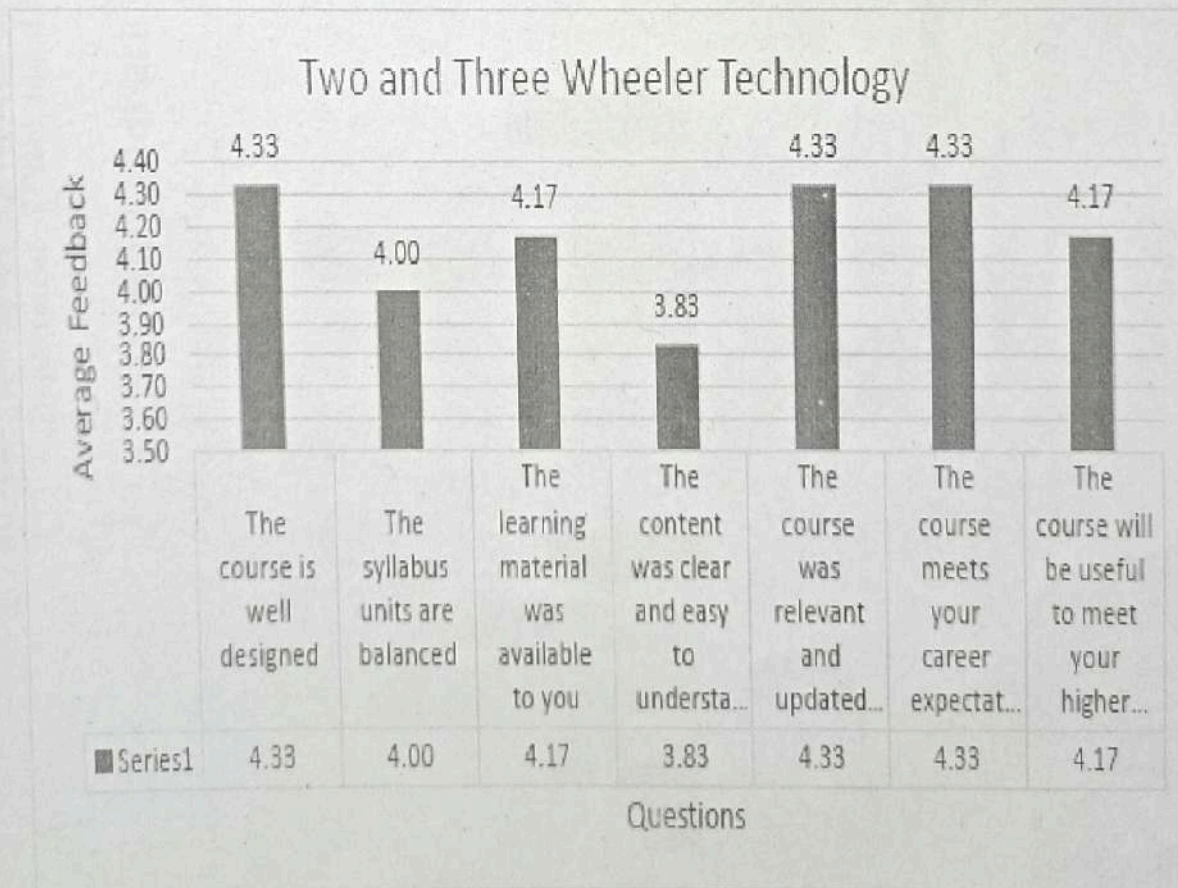
Hybrid Electrical Vehicle



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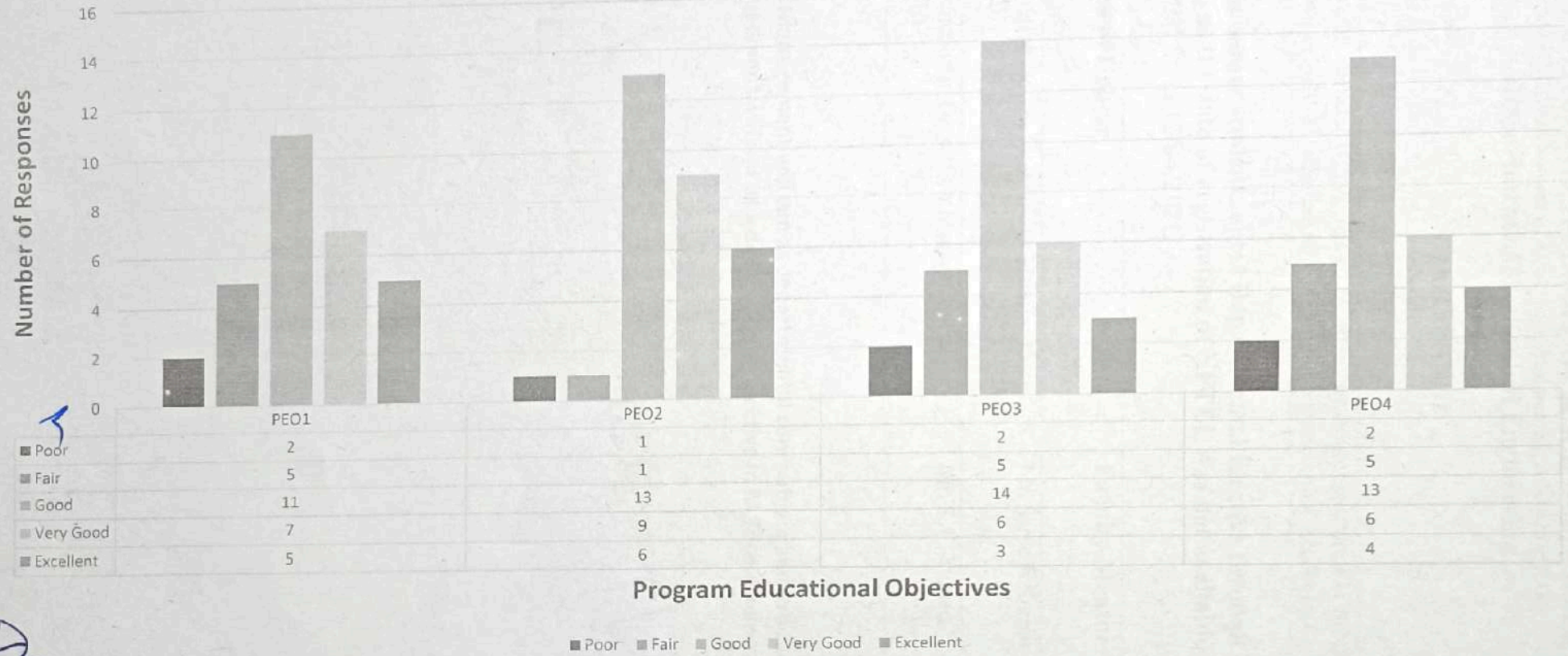
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Two and Three Wheeler Technology	
Questions	Average Feedback (Out of 5)
The course is well designed	4.33
The syllabus units are balanced	4.00
The learning material was available to you	4.17
The content was clear and easy to understand	3.83
The course was relevant and updated for present needs	4.33
The course meets your career expectations	4.33
The course will be useful to meet your higher studies/future aspirations.	4.17



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Alumni Feedback on PEOs



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 PL
 BLS
 Head
 Deptt. of Mechanical Engineering
 Madhav Institute of Tech. & Science
 Gwalior - 05 (India)



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Department of Mechanical Engineering

ITEM No. 11 (BoS Agenda)

To review curricula feedback from various stakeholders, its analysis and impact



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Action Taken on Students Feedback on Curriculum

S.No.	Subject	Feedback	Action Taken
1	Fluid Mechanics and Hydraulic Machine	The Syllabus of unit 5 is not balanced	Some portion is added in unit 5 for 2020-21 batch
		Some advanced topic should be added in subject	Separate course “Turbo Machinery” is running for advanced topic.
2	Design of Machine Elements	Units are not balanced; some units are lengthy and some units are too short	Unit contents is revised for 2020-21 admitted batch
		Course structure is not advanced as per present scenario	Advanced topics are covered in laboratory and also suggested NPTEL course for advanced topics
3	Machine Design	Old content is available in syllabus	Skill based project are given to students regarding advanced topics
4	Total Quality Management	Subject is not interesting as it is based on industrial point of view	Some industry personal involvement is in process for this subject
5	Industrial Engineering	Sequence of units is not well arranged	Units no.3 and 5 are re-arranged.
6	Vibration and Noise Control	Course is difficult and need practical skills	SKF lab is utilized for practical knowledge

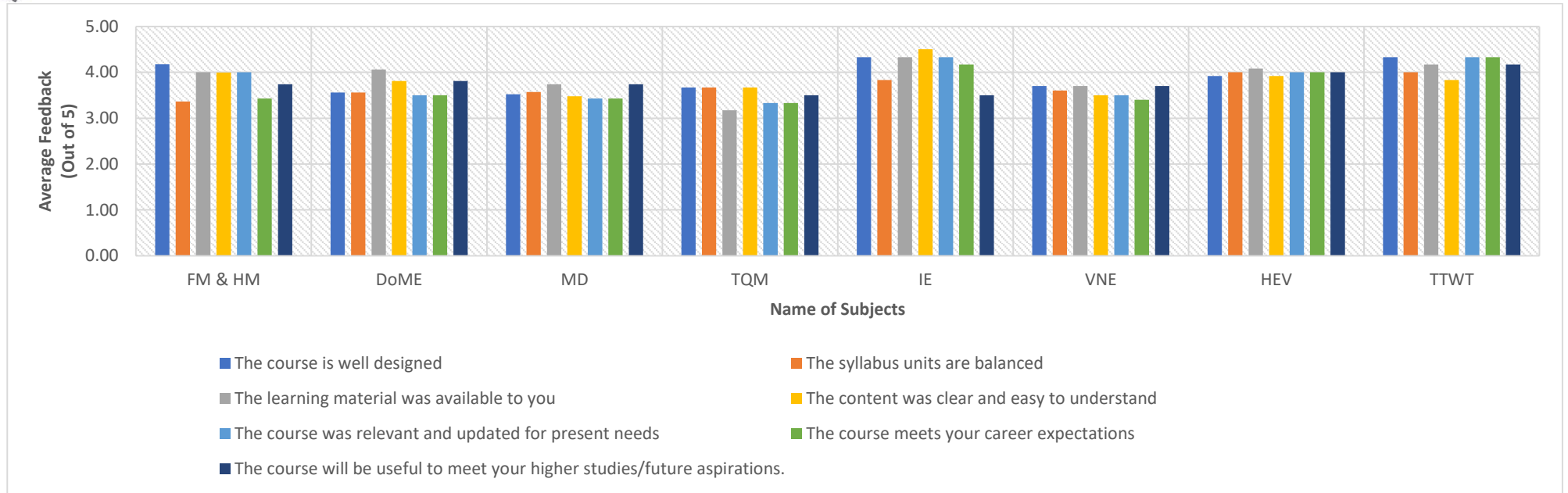
Parameters	Average Feedback (Out of 5)							
	FM & HM	DoME	MD	TQM	IE	VNE	HEV	TTWT
The course is well designed	4.18	3.56	3.52	3.67	4.33	3.70	3.92	4.33
The syllabus units are balanced	3.36	3.56	3.57	3.67	3.83	3.60	4.00	4.00
The learning material was available to you	4.00	4.06	3.74	3.17	4.33	3.70	4.08	4.17
The content was clear and easy to understand	4.00	3.81	3.48	3.67	4.5	3.50	3.92	3.83
The course was relevant and updated for present needs	4.00	3.5	3.43	3.33	4.33	3.50	4.00	4.33
The course meets your career expectations	3.43	3.5	3.43	3.33	4.17	3.40	4.00	4.33
The course will be useful to meet your higher studies/future aspirations.	3.74	3.81	3.74	3.50	3.50	3.70	4.00	4.17



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STUDENT FEEDBACK ON CURRICULUM

	3rd Semester	5th Semester	7th Semester		
Number of Registered Students	142	132	135		
Number of Feedback given	40	68	69		
	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
3rd Semester	23	15	1	1	0
5th Semester	30	35	2	1	0
7th Semester	37	27	3	2	0


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Action Taken on Teacher's Feedback on Curriculum

S.No.	Subject	Feedback	Action Taken
1	Thermal Engineering	Syllabus is too vast and contains non-interrelated topics	Some units are split and added in other subjects for 2020-21 admitted batch
2	APT	Due to non-availability of CNC working machine laboratory part should be removed	This will be decided in upcoming BoS
3	VNC	More utilization of SKF lab is required in vibration subject so it should be departmental core (DC) instead of departmental elective (DE).	This implementation will be done in upcoming BoS meeting, as this course will be offered in final year
4	RAC	For best utilization of RAC lab, it should be departmental core (DC) instead of departmental elective (DE)	This implementation will be done in upcoming BoS meeting, as this course will be offered in final year
5	MP	Laboratory exposure is lacking, as there is no practical slot is in subject	Laboratory portion may be covered by Skill Based Project.
6	DoME	Syllabus for Automobile engineering is vast and need modification	This implementation will be done in upcoming BoS meeting, and will be applicable for 2020 admitted batch

Parameters	Average Feedback (Out of 5)																	
	MS	MoM	ToM-I	FM&HM	AE	ToM-II	DoME	MP	ET	IE	MCMT	HMT	TE	MD	APT	RAC	AT	R&C
The Courses and content are up to date	4.18	3.56	3.52	3.67	4.33	3.70	3.92	4.33	3.67	4.33	3.70	3.92	4.33	3.56	3.52	4.3	4.33	4.15
The course curriculum/syllabi are helpful in meeting the higher studies/ placement requirements	3.36	3.56	3.57	3.67	3.83	3.90	4.00	4.00	3.67	3.83	3.60	4.00	4.00	4.1	4.2	4.1	3.83	4.03

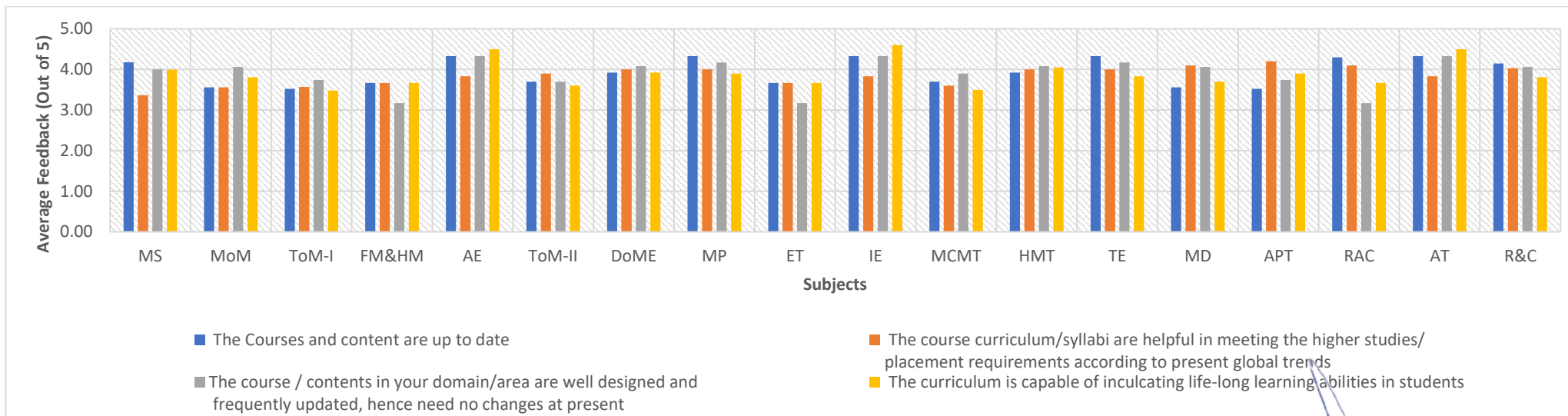


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according to present global trends																			
The course / contents in your domain/area are well designed and frequently updated, hence need no changes at present	4.00	4.06	3.74	3.17	4.33	3.70	4.08	4.17	3.17	4.33	3.90	4.08	4.17	4.06	3.74	3.17	4.33	4.06	
The curriculum is capable of inculcating life-long learning abilities in students	4.00	3.81	3.48	3.67	4.5	3.60	3.92	3.90	3.67	4.6	3.50	4.05	3.83	3.7	3.9	3.67	4.5	3.81	



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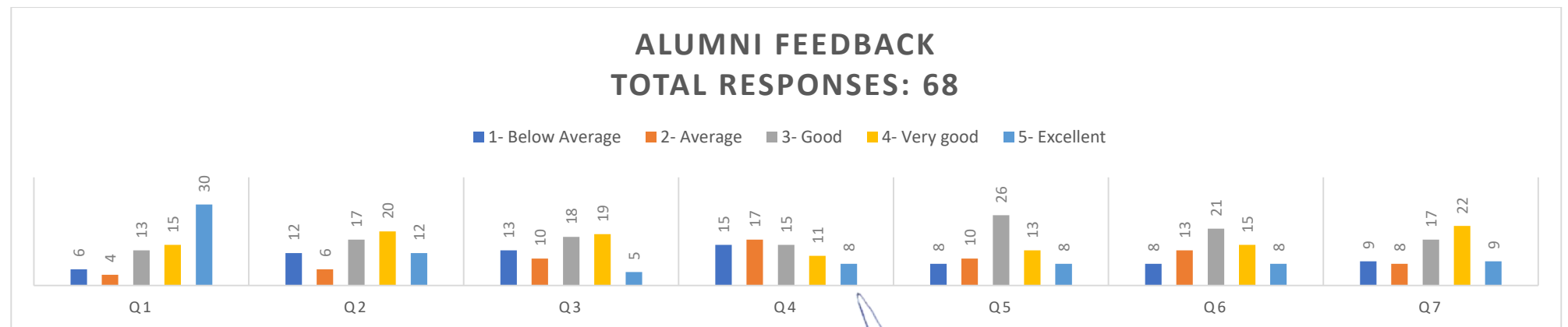
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Department of Mechanical Engineering **Action Taken on Alumni's Feedback on Curriculum**

The feedback responses from alumni and action taken is illustrated in the following table:

S.No	Feedback	Action Taken
1	Recent technologies must be Include	In SKF lab, RAC Lab, latest equipment's are added, also advanced subjects are offered through departmental elective (DE)
2	There must be a career counselling session for the students	Career counselling session is continuously conducting by student counsellor, also in orientation program HoD, Senior faculty takes career counselling session.
3	Need more practical industry driven education and also need to add ethics-civics class in all branches.	Internship in industry is offered in Mechanical VIII sem, also ethical classes conducted under NSS.
4	Support and motivate student ideas	There is a startup cell, which promote students' ideas and give platform for enhancement their ideas.
5	In the world of CAD/CAM needed advance technology	Advanced software/Technology are covered through various theory subjects and laboratory.
6	Please provide placement opportunities in core mechanical sector.	Departmental level placement committee is formed, which will look the placement of students in core companies.
7	Practical exposure is very less. Collage not provide any campus recruitment or internship opportunity.	6 month Internship opportunity is providing in VIII sem .



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Department of Mechanical Engineering

- Q1** You feel proud to be known as an MITS Alumnus
- Q2** Institute organizes various kinds of activities for the overall development of students
- Q3** Institute handles student's grievances properly
- Q4** Institute has adequate laboratories and equipment for practical exposure to students
- Q5** The education imparted at MITS is useful and relevant in your career and present job
- Q6** Have you obtained sufficient technical knowledge (both in theory and practical) at MITS
- Q7** Overall are you satisfied with the Faculty, Staff and Administration during Program



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Item ME24	To review curricula feedback from various stakeholders, its analysis and impact {Stakeholder feedback analysis must also contain an action taken report (ATR) and the details/data of the stakeholder who have responded through GOOGLE form (such as Name, organization, mail id, phone no if available) must also be shared along with the feedback for the alumni/employer.}
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Student's Feedback on Curriculum

Action Taken on Student's Feedback

III-Semester (AU/ME)

S. No.	Subject	Feedback	Action Taken
1	Manufacturing Process (DC-2)	The syllabus is good but rearrangement of topic required	Production track committee formed and required changes has been employed.
2	Mechanics of Materials (DC-3)	Units to be balanced	Unit contents is revised for 2021-22 admitted batch
3	Theory of Machines –I (DC-4)	There is nothing that a mechanical engineer can learn through online mode. If we can't learn the working of a machine in a physical manner, then we also can't fix it	Offline classes has been scheduled in upcoming semester as per govt. guidelines
4	Fluid Mechanics and Hydraulic Machines (DC-5)	Online labs are not enough to provide all practical learning	Offline lab class has been initiated with effect from Nov. 2021
5	Automotive Materials (DC-2)	NA	No changes
6	Automotive Engines (DC-4)	Course is difficult and need practical skills	Students are advised to visit IC-engine lab to get exposures of engines and automotive.

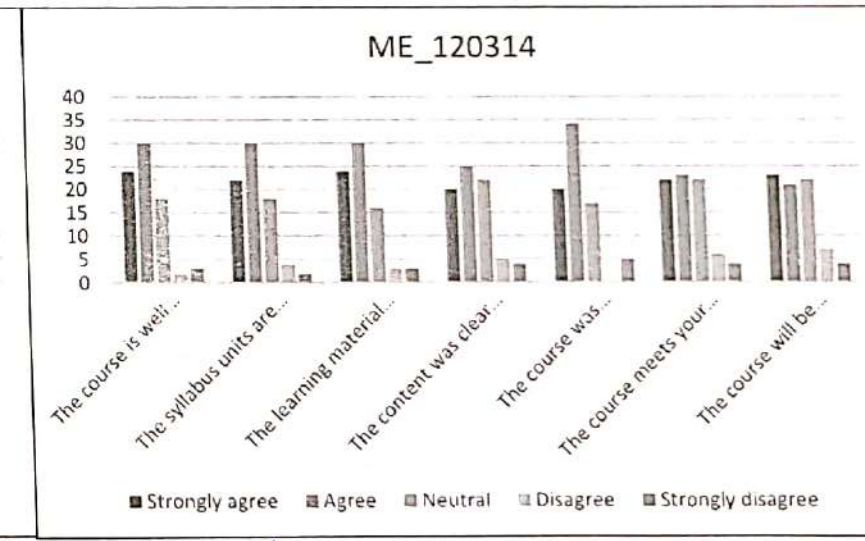
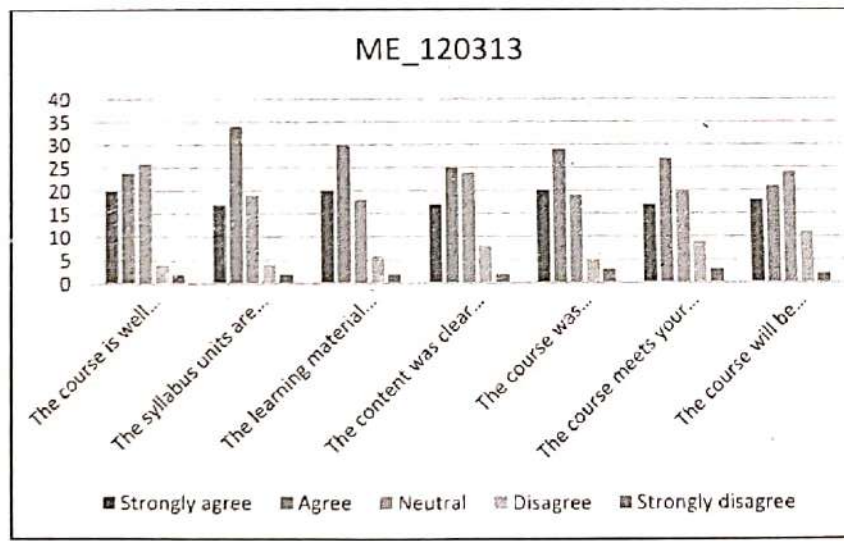
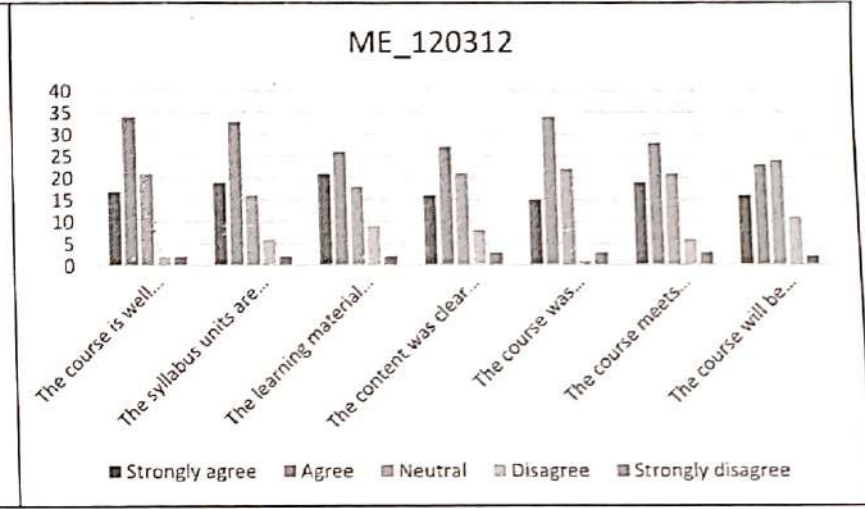
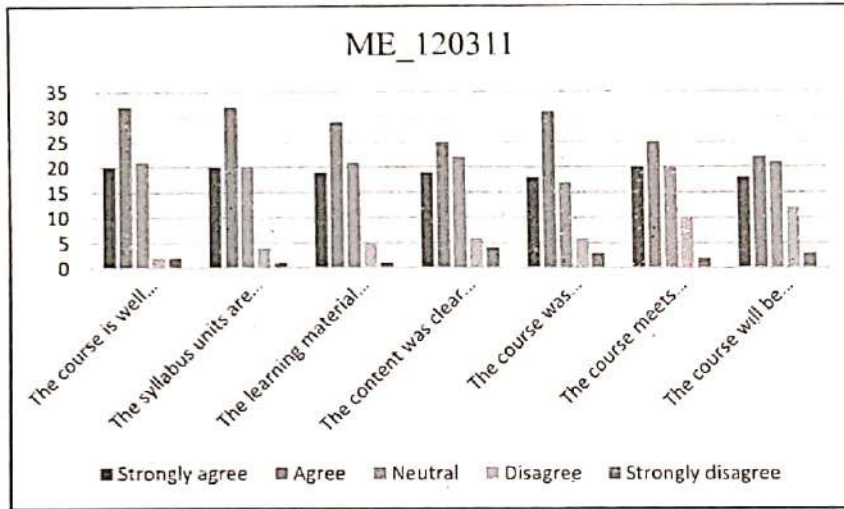
Mechanical Engineering			
	3rd Semester	5th Semester	7th Semester
Number of Registered Students	132	149	138
Number of Feedback given	78	95	42
Automobile Engineering			
	3rd Semester	5th Semester	7th Semester
Number of Registered Students	35	65	65
Number of Feedback given	12	11	17

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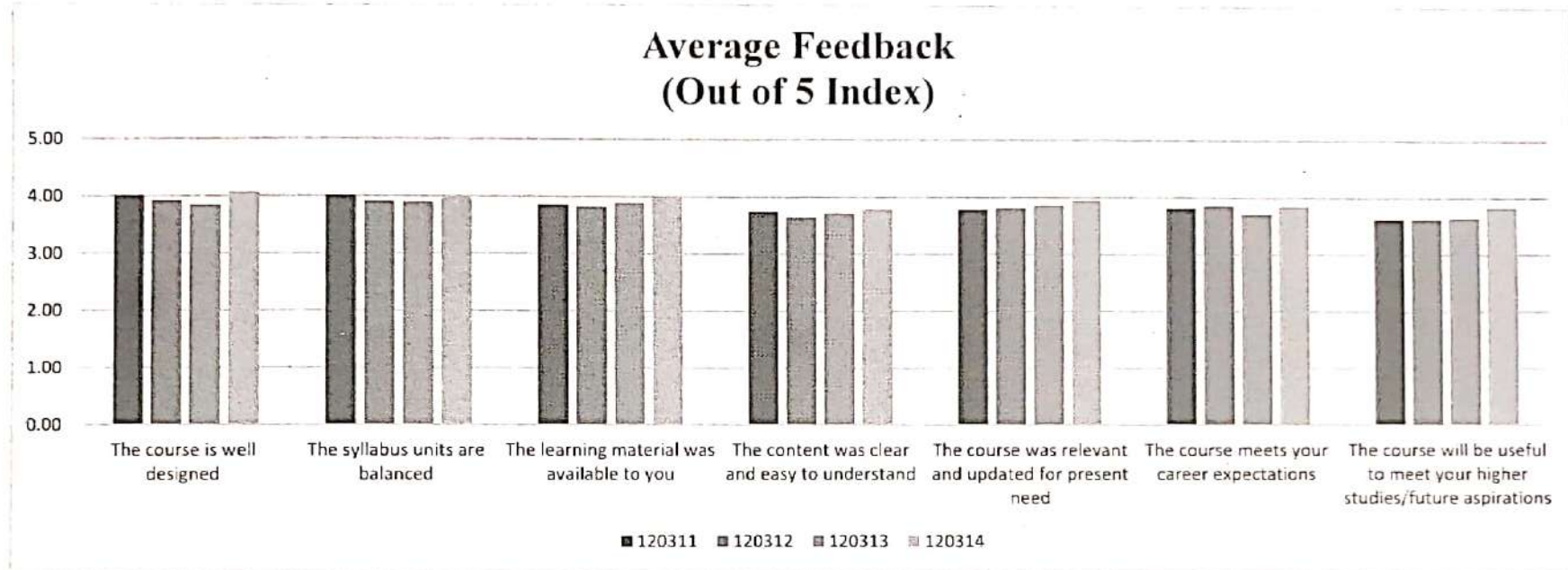


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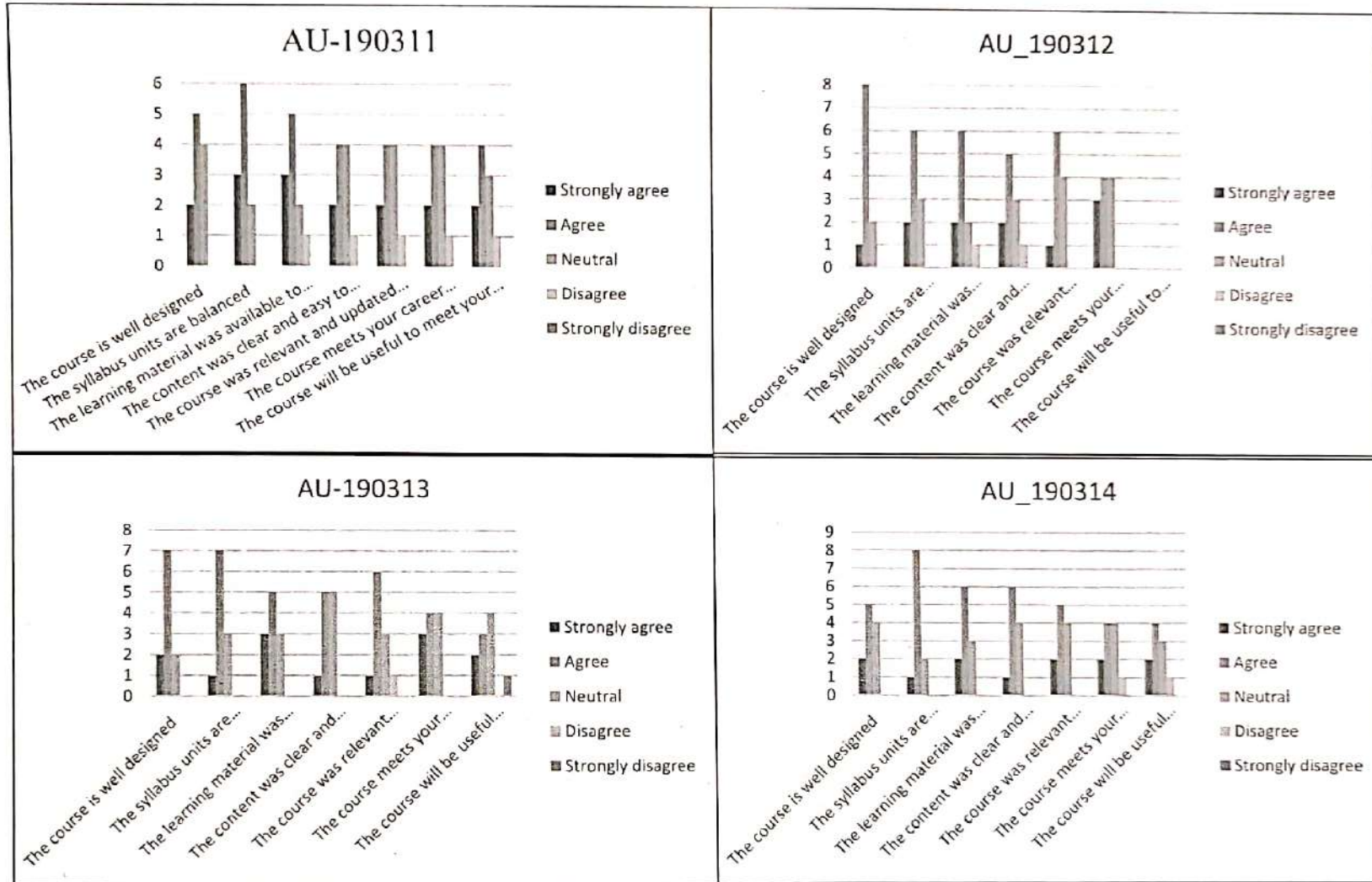
Average Feedback (Out of 5)				
Subject Code: ➔	120311	120312	120313	120314
The course is well designed	4.01	3.92	3.84	4.07
The syllabus units are balanced	4.01	3.91	3.89	3.97
The learning material was available to you	3.85	3.82	3.89	4.01
The content was clear and easy to understand	3.74	3.65	3.72	3.78
The course was relevant and updated for present need	3.78	3.81	3.86	3.95
The course meets your career expectations	3.81	3.85	3.70	3.84
The course will be useful to meet your higher studies/future aspirations	3.62	3.62	3.65	3.82

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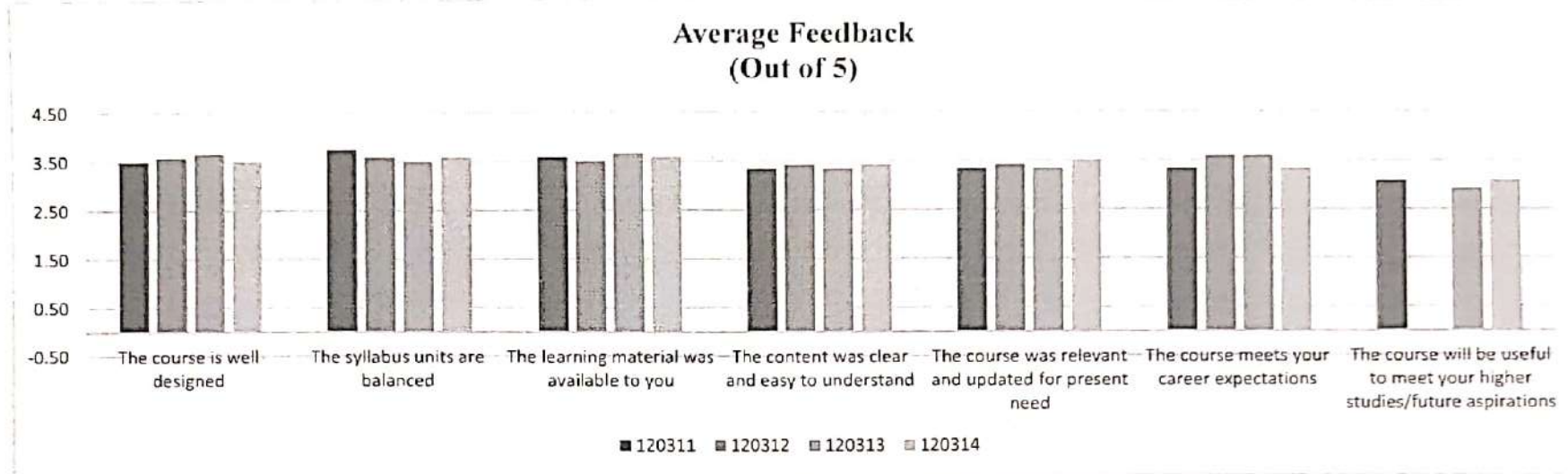
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Average Feedback (Out of 5)				
Subject Code: ➔	190311	190312	190313	190314
The course is well designed	3.50	3.58	3.67	3.50
The syllabus units are balanced	3.75	3.58	3.50	3.58
The learning material was available to you	3.58	3.50	3.67	3.58
The content was clear and easy to understand	3.33	3.42	3.33	3.42
The course was relevant and updated for present need	3.33	3.42	3.33	3.50
The course meets your career expectations	3.33	3.58	3.58	3.33
The course will be useful to meet your higher studies/future aspirations	3.08	0.00	2.92	3.08

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Action Taken on Student's Feedback

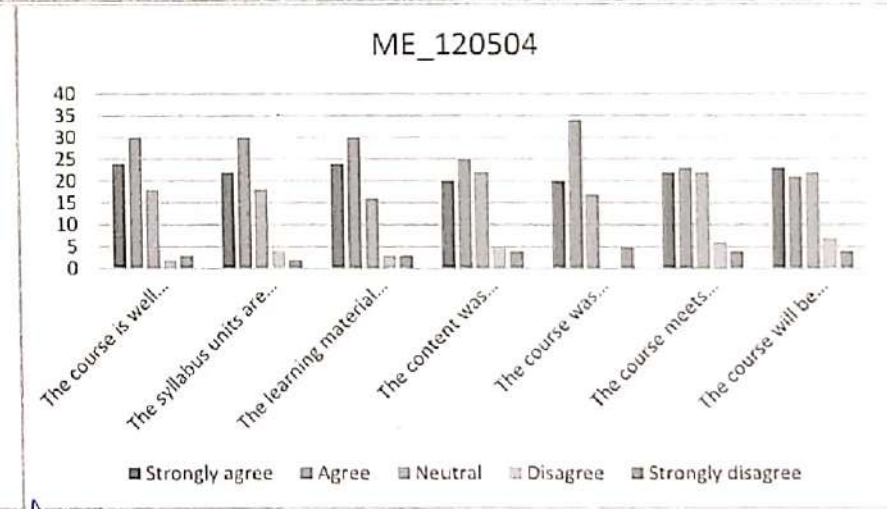
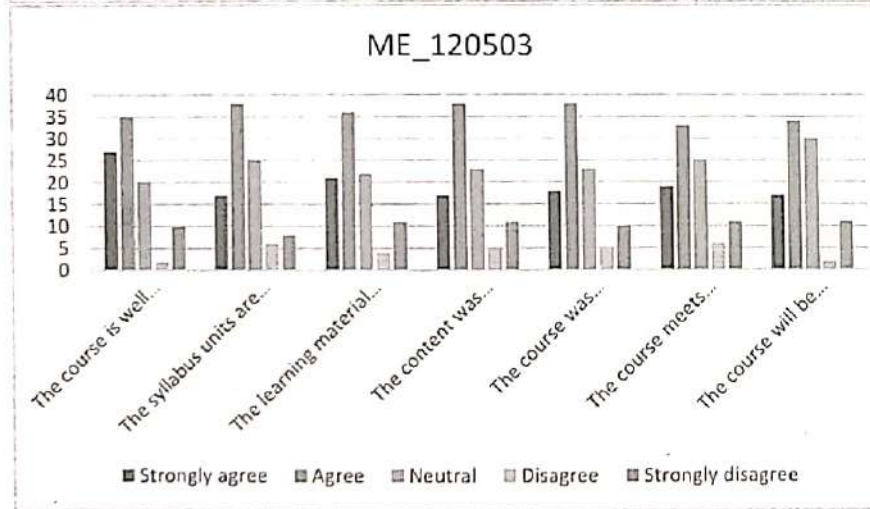
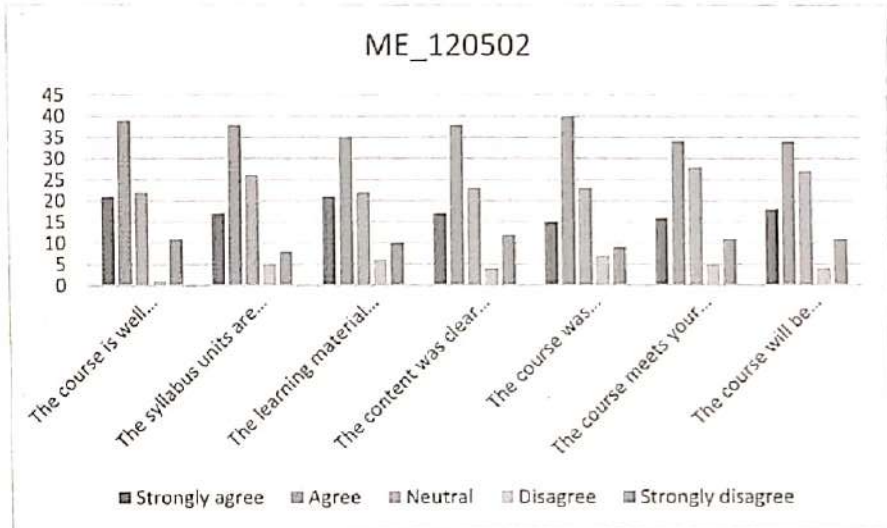
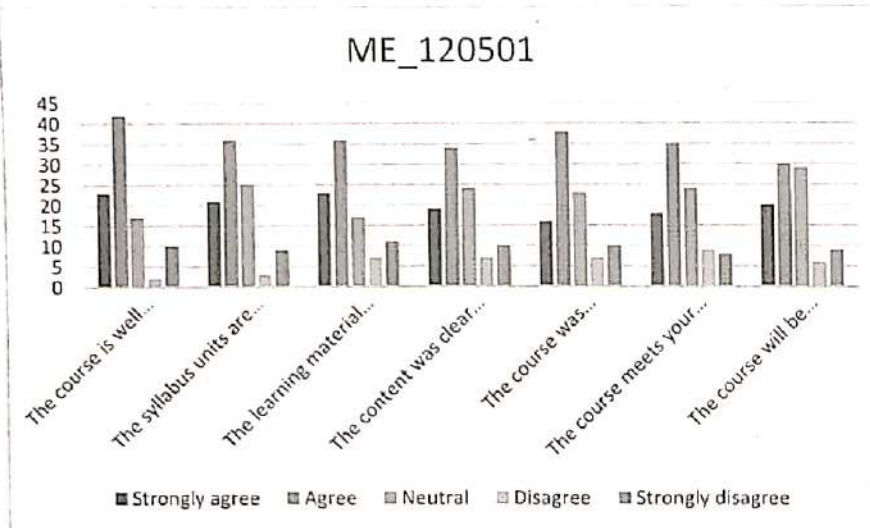
V-Semester (ME/AU)

S. No.	Subject	Feedback	Action Taken
1	Industrial Engineering	Please make the next semester completely offline.	As per the office order: Offline classes will be scheduled.
2	Metal cutting and machine tools	The structure is well designed.	Most of the students are satisfied with metal cutting and machining tools syllabus.
3	Heat & Mass Transfer	We don't want online classes because online class are not attractive as offline classes. So plz from next sem from day plz start the offline classes.	Offline classes has been scheduled in upcoming semester as per govt. guidelines
4	Thermal Engineering	Online labs are not enough to provide all practical learning	Offline class has been initiated with effect from Nov. 2021
5	Machine Design	NA	No changes
6	Design of machine elements	Course is difficult and need practical skills	Students are advised to visit and meet faculties. Remedial classes is regularly conducting.
7	Automotive Chassis	Course is very well designed	NA

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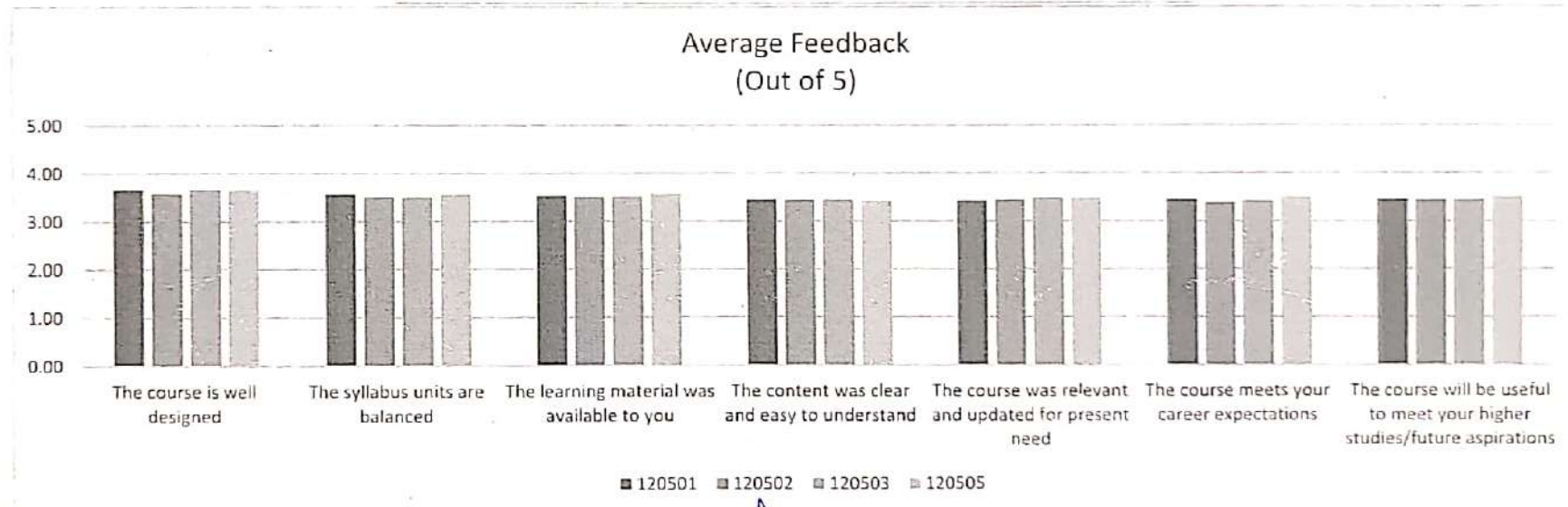
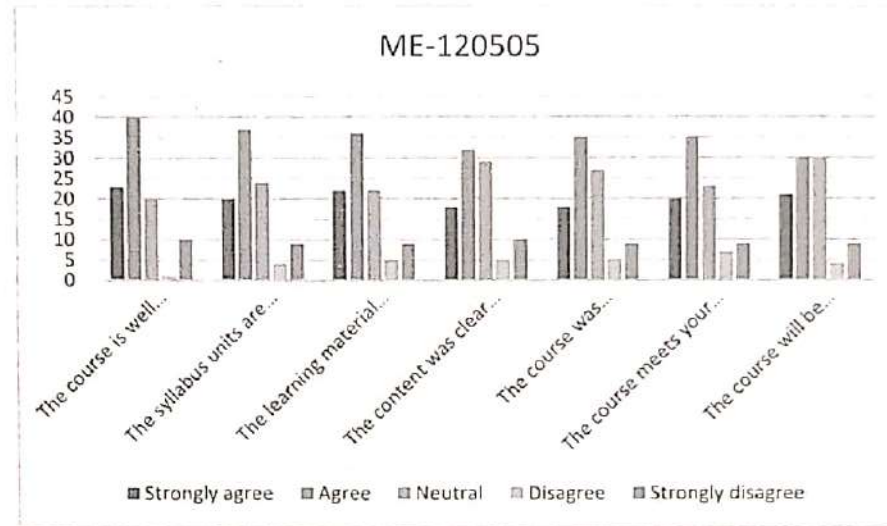
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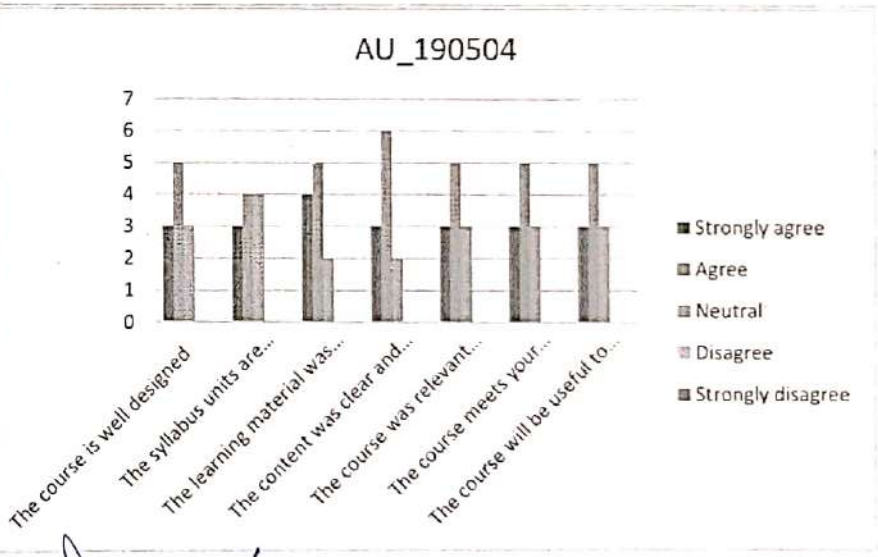
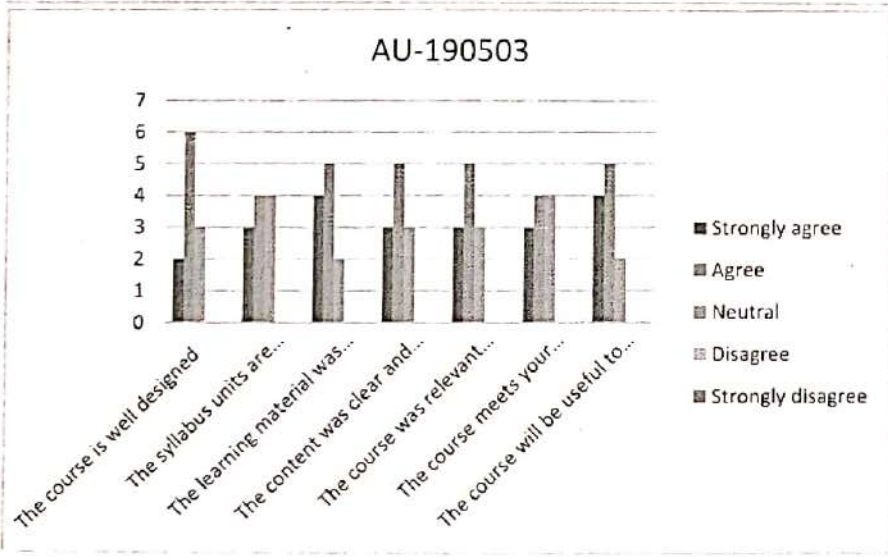
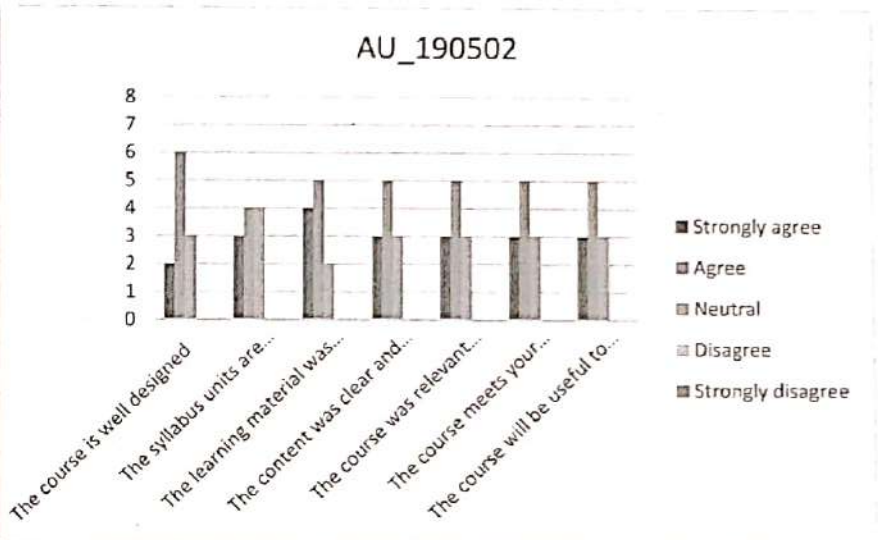
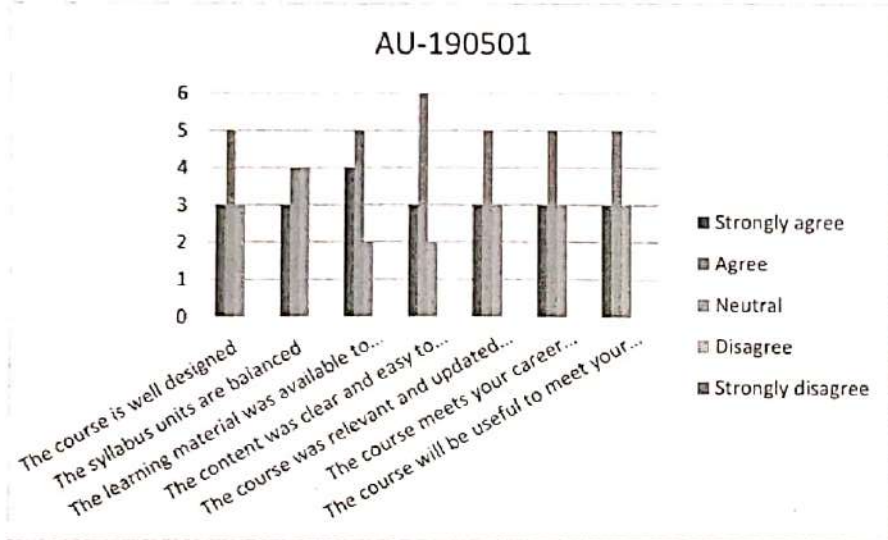
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Average Feedback (Out of 5)					
Subject Code: ➔	120501	120502	120503	120504	120505
The course is well designed	3.66	3.58	3.67	3.17	3.65
The syllabus units are balanced	3.57	3.51	3.49	3.09	3.55
The learning material was available to you	3.53	3.51	3.52	3.13	3.57
The content was clear and easy to understand	3.44	3.43	3.44	2.95	3.42
The course was relevant and updated for present need	3.42	3.44	3.48	3.07	3.47
The course meets your career expectations	3.45	3.38	3.42	2.99	3.49
The course will be useful to meet your higher studies/future aspirations	3.45	3.43	3.43	2.98	3.49

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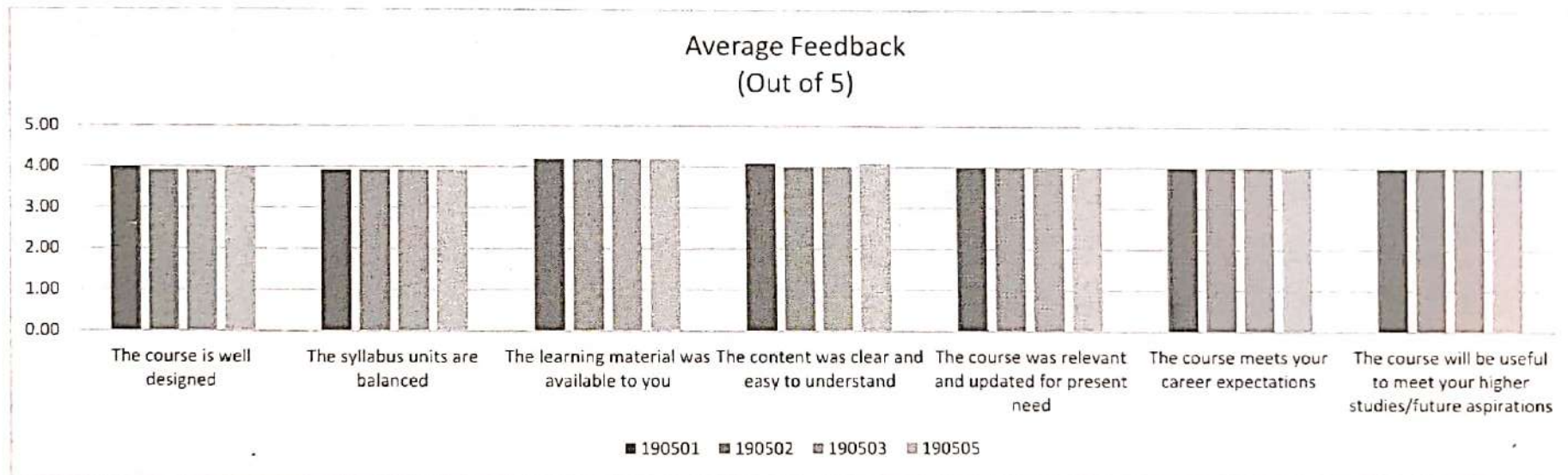
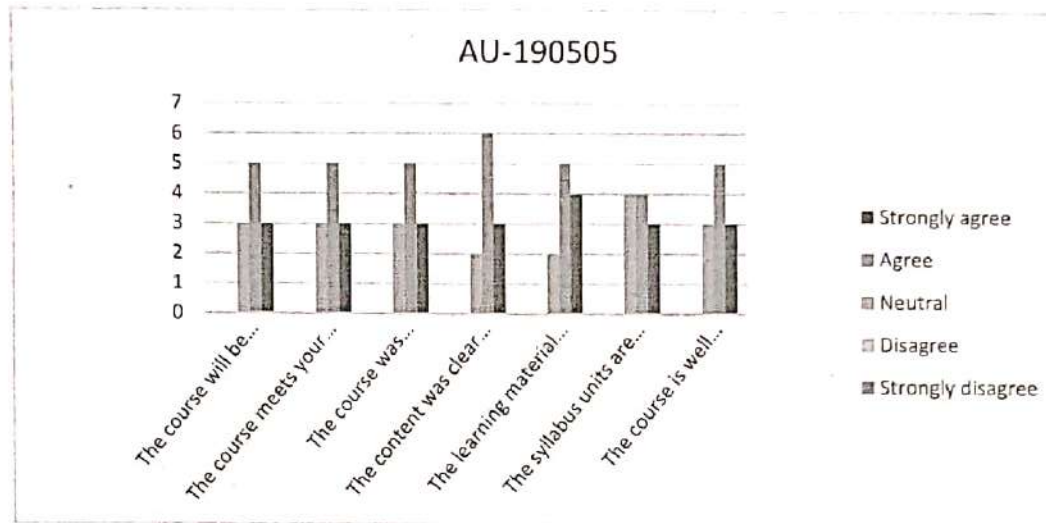


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Average Feedback (Out of 5)					
Subject Code: →	190501	190502	190503	190504	190505
The course is well designed	4.00	3.91	3.91	3.91	4.00
The syllabus units are balanced	3.91	3.91	3.91	3.91	3.91
The learning material was available to you	3.91	3.91	3.91	3.91	3.91
The content was clear and easy to understand	4.18	4.18	4.18	4.18	4.18
The course was relevant and updated for present need	4.09	4.00	4.00	4.00	4.09
The course meets your career expectations	4.00	4.00	4.00	4.00	4.00
The course will be useful to meet your higher studies/future aspirations	4.00	4.00	4.00	3.91	4.00

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Action Taken on Student's Feedback
VII-Semester (ME/AU)

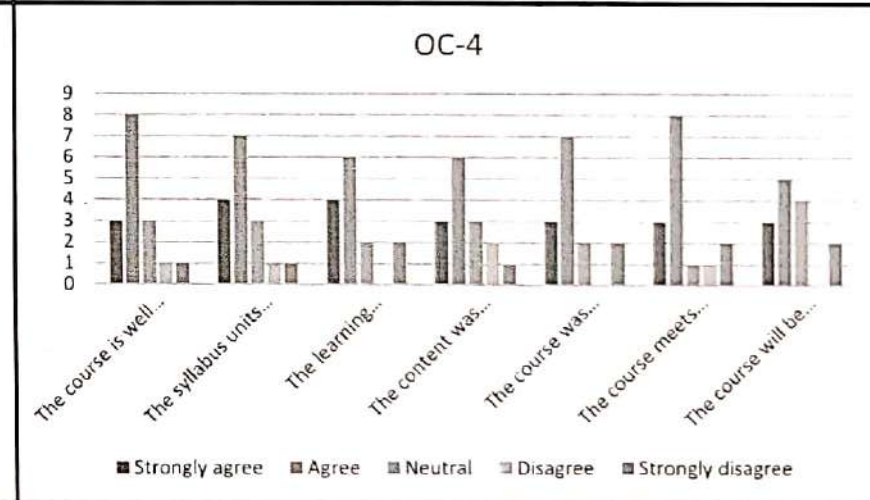
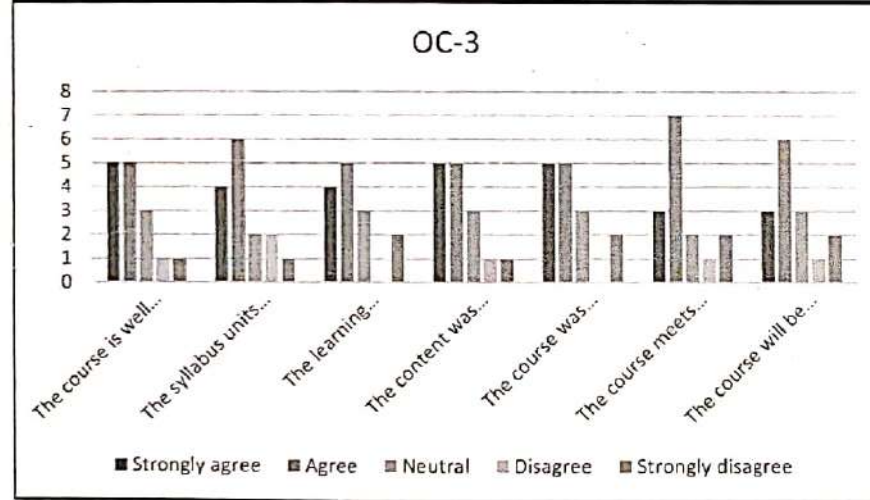
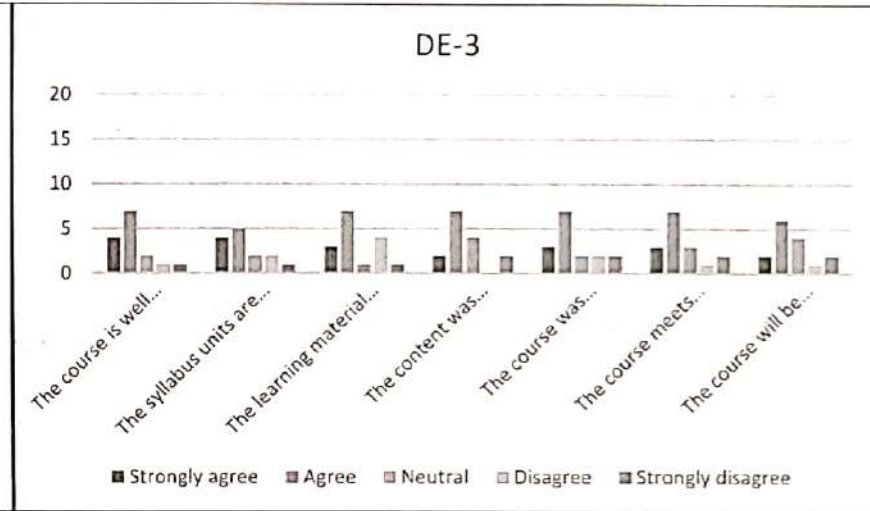
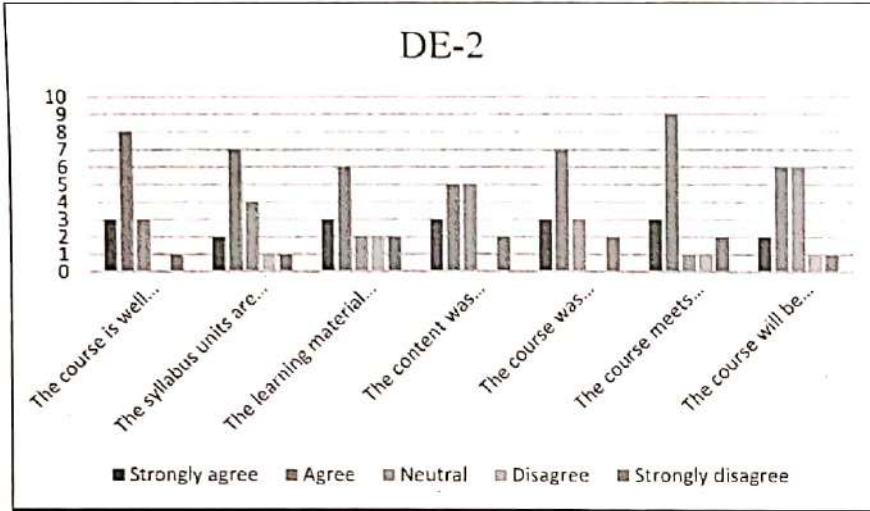
S. No.	Subject	Feedback	Action Taken
1	DE-2	For online mode you need proper camera, pen board system, sound and related accessories.	Digital writing pads has been given to all faculties to enhance the overall effectiveness of teaching.
2	DE-3	Units to be balanced	Unit contents is revised for 2021-22 admitted batch
3	OC-3	More choices for OC should be included.	Observation has been noted and will be discuss in the departmental meetings.
4	OC-4	Learning should be more practical	Offline class has been initiated with effect from Nov. 2021

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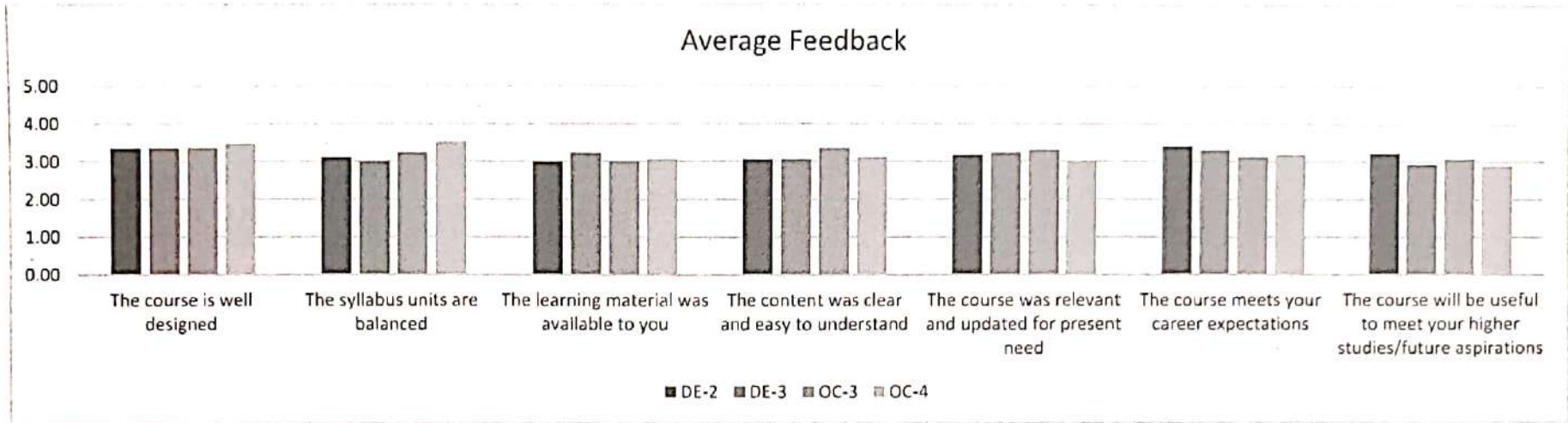


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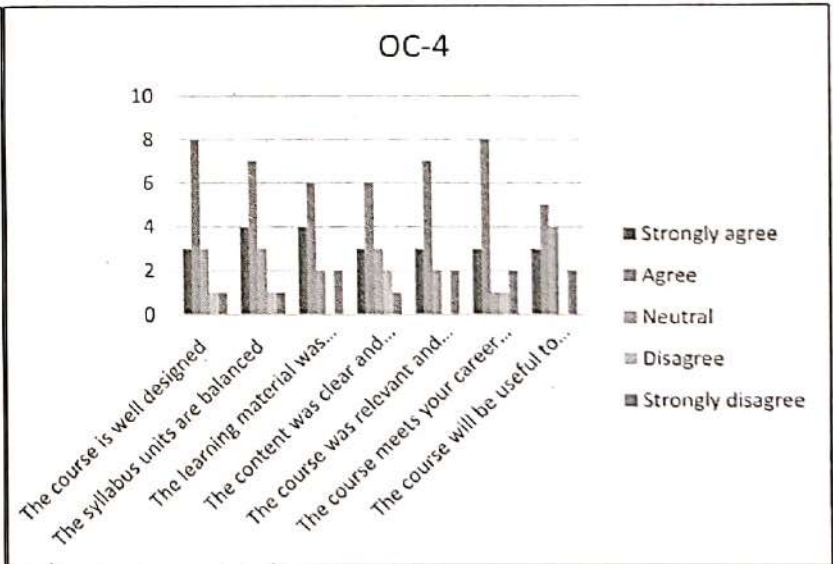
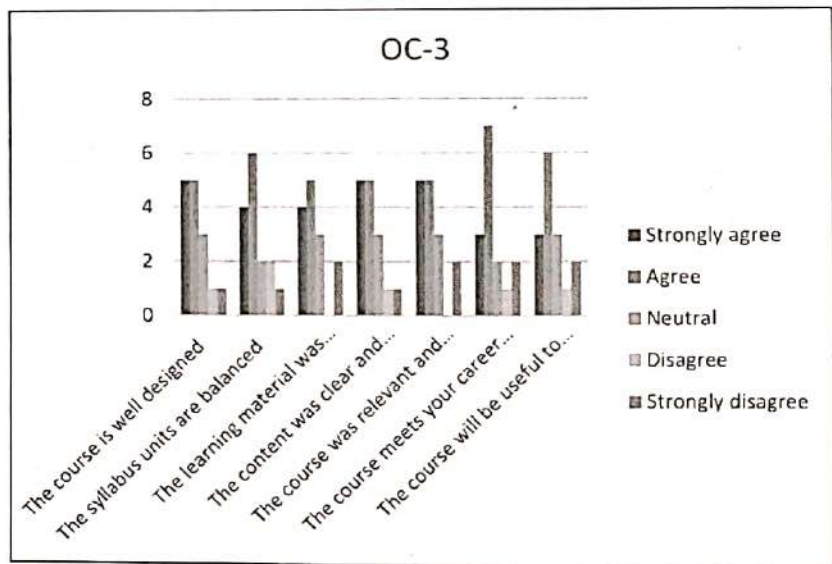
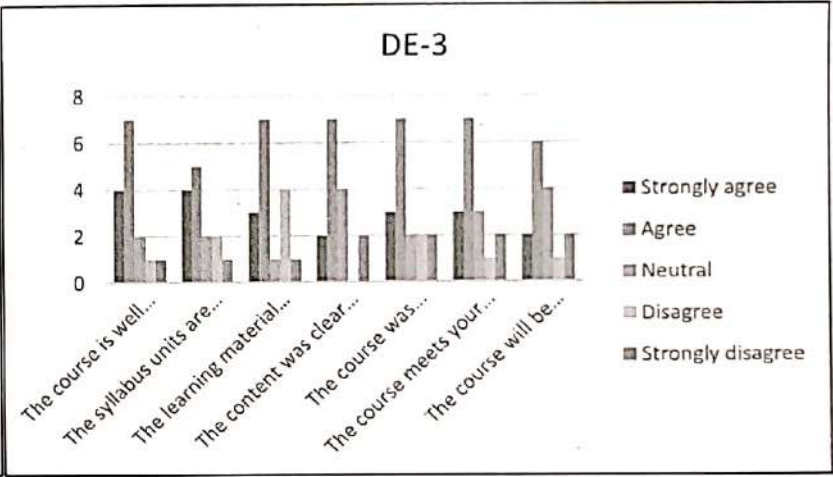
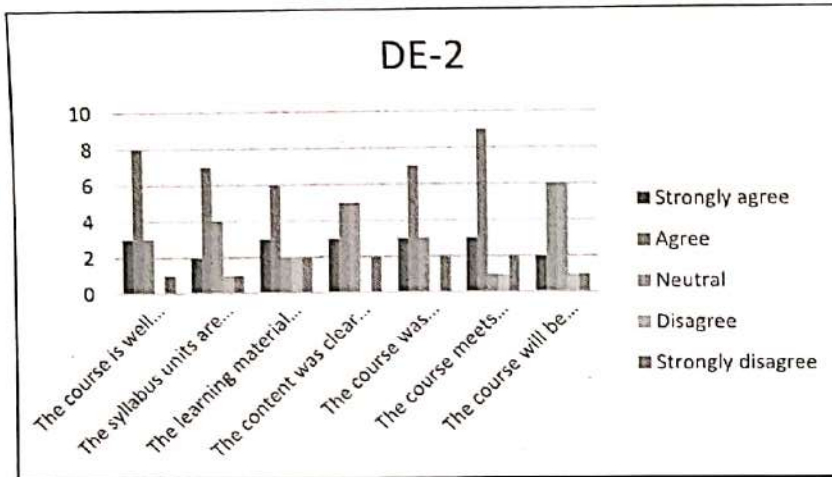


Average Feedback (Out of 5)				
Subject Code: ➔	DE-2	DE-3	OC-3	OC-4
The course is well designed	3.71	3.79	3.81	3.79
The syllabus units are balanced	3.71	3.71	3.81	3.76
The learning material was available to you	3.67	3.67	3.64	3.86
The content was clear and easy to understand	3.60	3.62	3.71	3.76
The course was relevant and updated for present need	3.57	3.62	3.67	3.79
The course meets your career expectations	3.69	3.69	3.79	3.86
The course will be useful to meet your higher studies/future aspirations	3.62	3.55	3.74	3.83

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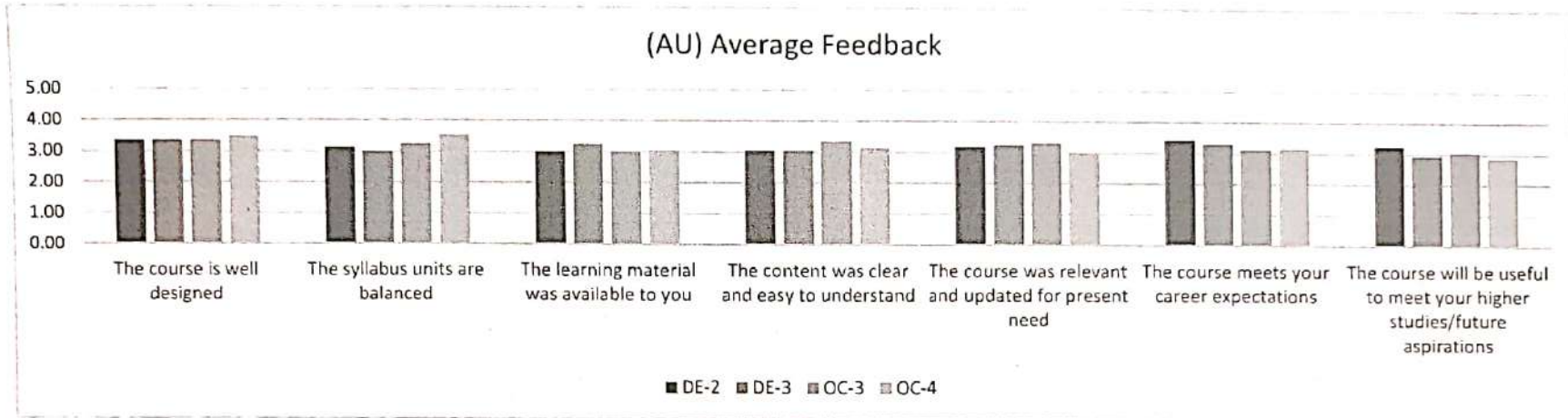


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Average Feedback (AU) (Out of 5)				
Subject Code: →	DE-2	DE-3	OC-3	OC-4
The course is well designed	3.35	3.35	3.35	3.47
The syllabus units are balanced	3.12	3.00	3.24	3.53
The learning material was available to you	3.00	3.24	3.00	3.06
The content was clear and easy to understand	3.06	3.06	3.35	3.12
The course was relevant and updated for present need	3.18	3.24	3.29	3.00
The course meets your career expectations	3.41	3.29	3.12	3.18
The course will be useful to meet your higher studies/future aspirations	3.24	2.94	3.06	2.88

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Teacher's Feedback on Curriculum

Action Taken on Teacher's Feedback

S.No.	Subject	Feedback	Action Taken
1	Mechanics of materials	Lab should be updated	Updated
2	Total Quality Management	More company and data base case studies to be considered. Management faculty, industry person etc. can share 2-3 unit's delivery.	Department has been taken initiatives to incorporate such activates through alumni and industries experts.
3	Thermal Engineering	Syllabus is good but can be revised as per the course track meet.	Syllabus is updated
4	Machine Design	1-2 units can be delivered by industry persons.	Department has been taken initiatives to incorporate such activates through alumni and industries experts.
5	Theory of machine	Lab should be updated	Updated.

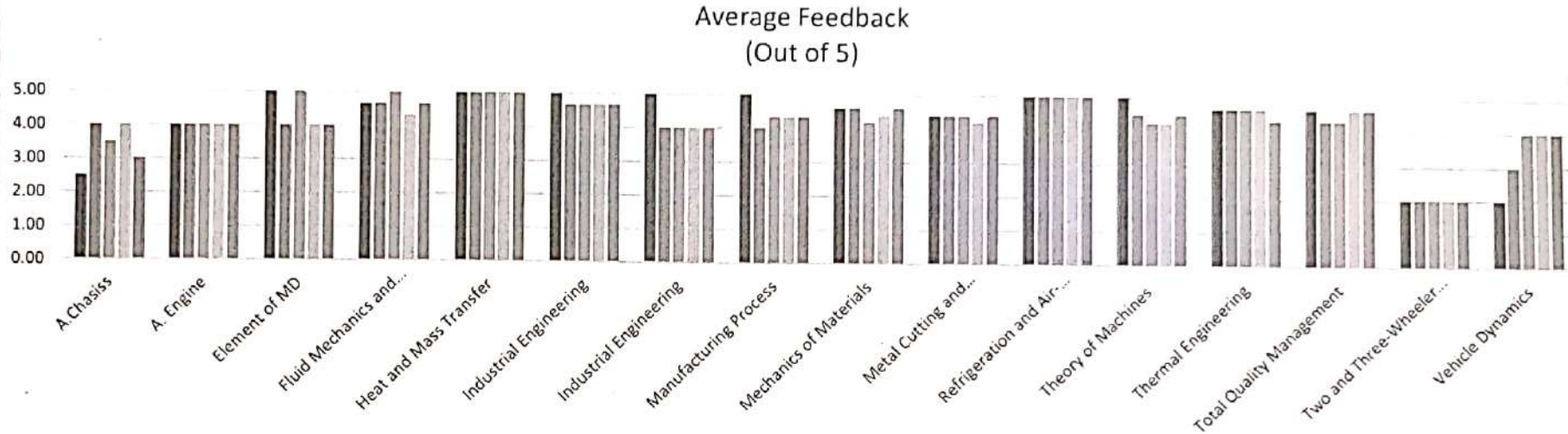
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- The availability of books & E-learning material in the institute is good
- The Courses and content are up to date. Please suggest if you feel any new course(s) need to be introduced to meet current needs & technological changes?
- The course curriculum/syllabi are helpful in meeting the higher studies/placement requirements according to present global trends.
- The course / contents in your domain/area are well designed and frequently updated, hence need no changes at present.
- The curriculum is capable of inculcating life-long learning abilities in students.

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Subject	The availability of books & E-learning material in the institute is good	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?	The course curriculum/syllabi are helpful in meeting the higher studies/placement requirements according to present global trends.	The course / contents in your domain/area are well designed and frequently updated, hence need no changes at present.	The curriculum is capable of inculcating life-long learning abilities in students.
Automotive Chassis	2.50	4.00	3.50	4.00	3.00
Automotive Engine	4.00	4.00	4.00	4.00	4.00
Element of MD	5.00	4.00	5.00	4.00	4.00
Fluid Mechanics and Hydraulic Machines	4.67	4.67	5.00	4.33	4.67
Heat and Mass Transfer	5.00	5.00	5.00	5.00	5.00
Industrial Engineering	5.00	4.67	4.67	4.67	4.67
Industrial Engineering	5	4	4	4	4
Manufacturing Process	5.00	4.00	4.33	4.33	4.33
Mechanics of Materials	4.60	4.60	4.20	4.40	4.60
Metal Cutting and Machine Tools	4.40	4.40	4.40	4.20	4.40
Refrigeration and Air-Conditioning	5.00	5.00	5.00	5.00	5.00
Theory of Machines	5.00	4.50	4.25	4.25	4.50
Thermal Engineering	4.67	4.67	4.67	4.67	4.33
Total Quality Management	4.67	4.33	4.33	4.67	4.67
Two and Three-Wheeler Technology	2	2	2	2	2
Vehicle Dynamics	2.00	3.00	4.00	4.00	4.00

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Alumni's Feedback on Curriculum

Action Taken on Alumni's Feedback

The feedback responses from alumni and action taken is illustrated in the following table:

S.No	Feedback	Action Taken
1	Recent technologies must be Include	In SKF lab, RAC Lab, latest equipment's are added, also advanced subjects are offered through departmental elective (DE)
2	There must be a career counselling session for the students	Career counselling session is continuously conducting by student counsellor, also in orientation program HoD, Senior faculty takes career counselling session.
3	Need more practical industry driven education and also need to add ethics-civics class in all branches.	Internship in industry is offered in Mechanical VIII sem, also ethical classes conducted under NSS.
4	Support and motivate student ideas	There is a startup cell, which promote students' ideas and give platform for enhancement their ideas.
5	Atleast call some mechanical companies for campus placement.	Working on this field.
6	Please provide placement opportunities in core mechanical sector.	Departmental level placement committee is formed, which will look the placement of students in core companies.
7	Practical exposure is very less. Collage not provide any campus recruitment or internship opportunity.	6 month Internship opportunity is providing in VIII sem .

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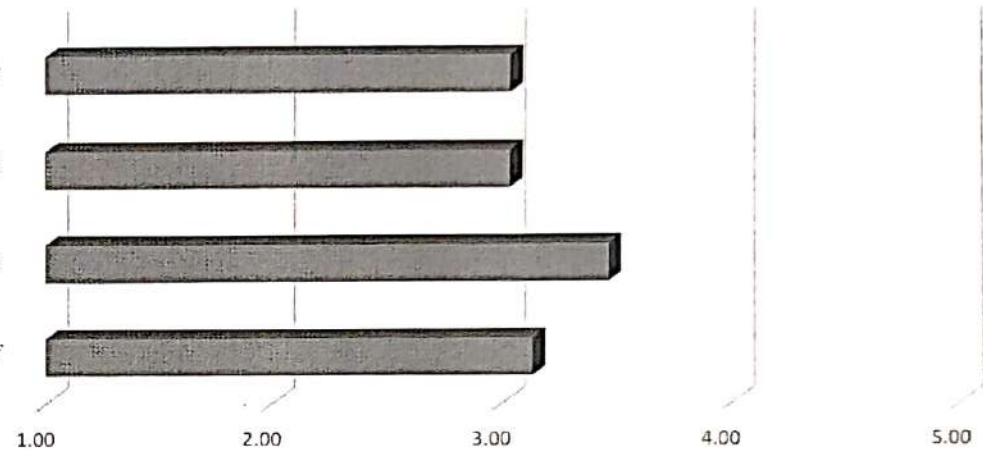
Average Feedback out of 5

Do you feel that you are able to manage projects in an ethical manner and work efficiently as a member/leader of multidisciplinary teams?

Are you able to apply, analyze, design and create products and solutions for real life Mechanical Engineering problems?

Do you feel that you are capable of learning new things in the constantly changing technological world?

Do you find yourself capable of making a good career ?



Average Feedback (Out of 5)	
Do you find yourself capable of making a good career?	3.13
Do you feel that you are capable of learning new things in the constantly changing technological world?	3.47
Are you able to apply, analyze, design and create products and solutions for real life Mechanical Engineering problems?	3.03
Do you feel that you are able to manage projects in an ethical manner and work efficiently as a member/leader of multidisciplinary teams?	3.03

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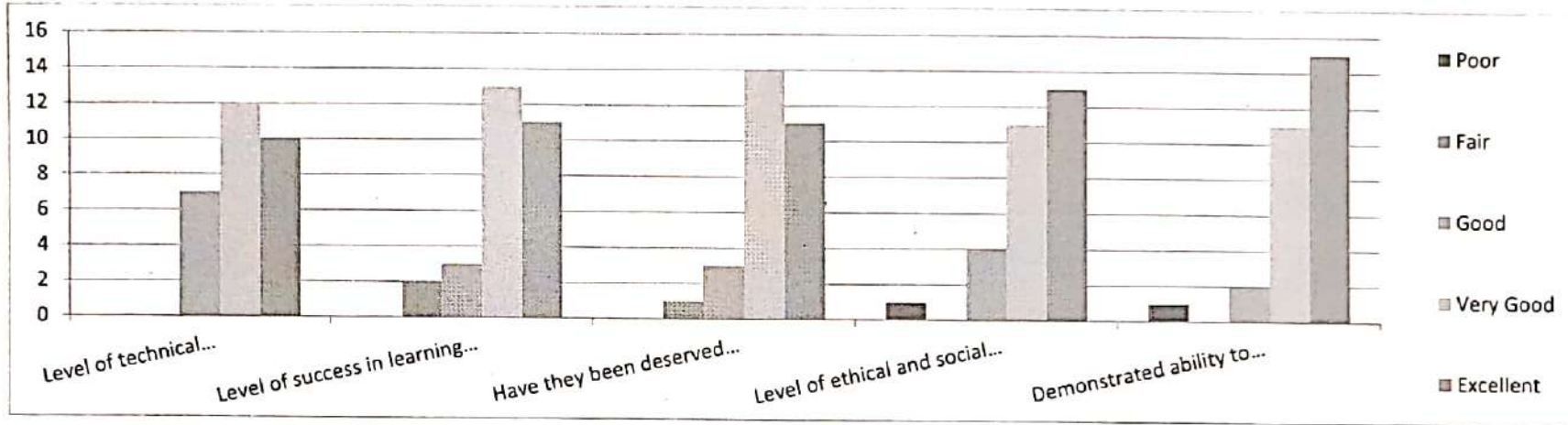
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Employer Feedback on Curriculum



SUMMARY SHEET (Employer Satisfaction Survey) Sample Size : 29

Parameter (Average Grading)	Poor	Fair	Good	Very Good	Excellent	Employer Satisfaction Index
Level of technical contribution	0	0	7	12	10	4.10
Level of success in learning new areas, engaging in professional development, and adapting to technological change	0	2	3	13	11	4.14
Have they been deserved for elevation to higher level ?	0	1	3	14	11	4.21
Level of ethical and social responsibility	1	0	4	11	13	4.21
Demonstrated ability to work well on a team	1	0	2	11	15	4.34
Employer Satisfaction Index (ESI) (on a scale of 5) (5: Excellent, 4: Very Good, 3: Good, 2: Fair, 1: Poor)						

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