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NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH,CST), MBA & MCA

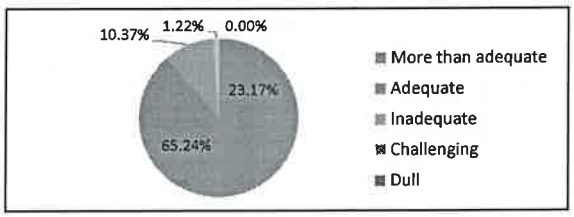
DEPARTMENT OF MECHANICAL ENGINEERING

Students Feedback on Curriculum, Teaching & Learning for A.Y. 2021-22

Total N.o of Responses:	164

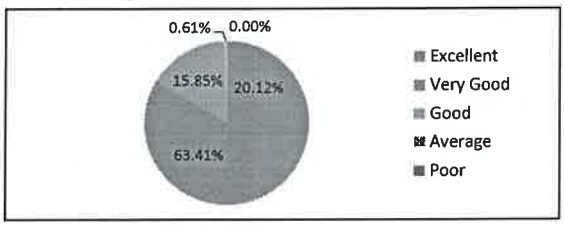
1 The Syllabus of each course was

Syllabus	Count	Percentage
More than adequate	38	23.17%
Adequate	107	65.24%
Inadequate	17	10.37%
Challenging	2	1.22%
Dull	0	0.00%



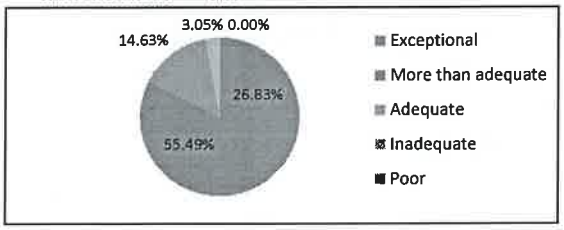
2 The depth of the course content is adequate in relation to the expected Course Outcomes(COs)

	Count	Percentage
Excellent	33	20.12%
Very Good	104	63.41%
Good	26	15.85%
Average	1	0.61%
Poor	0	0.00%



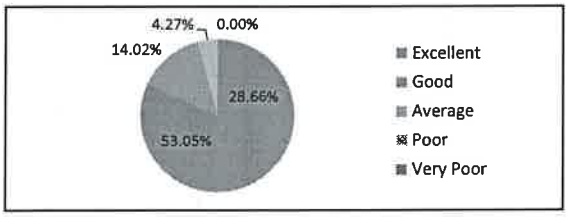
3 Opinion about library/textbooks/E-learning resources and facilities on the course

	Count	Percentage
Exceptional	44	26.83%
More than adequate	91	55.49%
Adequate	24	14.63%
Inadequate	5	3.05%
Poor	0	0.00%



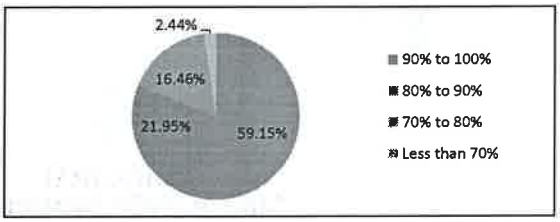
4 Knowledge/Skills acquired from theory/practical/project work to meet industry needs

	Count	Percentage
Excellent	47	28.66%
Good	87	53.05%
Average	23	14.02%
Poor	7	4.27%
Very Poor	0	0.00%



5 Syllabus coverage with proper sequencing

	Count	Percentage
90% to 100%	97	59.15%
80% to 90%	36	21.95%
70% to 80%	27	16.46%
Less than 70%	4	2.44%



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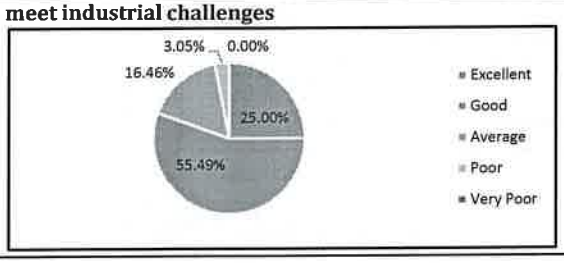
DEPARTMENT OF MECHANICAL ENGINEERING

Students Feedback on Curriculum, Teaching & Learning for A.Y. 2021-22

Total N.o of Responses:	164

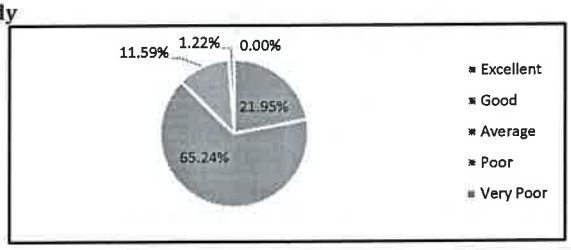
6 Syllabus equipped with necessary technical skills to meet industrial challenges

	Count	Percentage
Excellent	41	25.00%
Good	91	55.49%
Average	27	16.46%
Poor	5	3.05%
Very Poor	0	0.00%



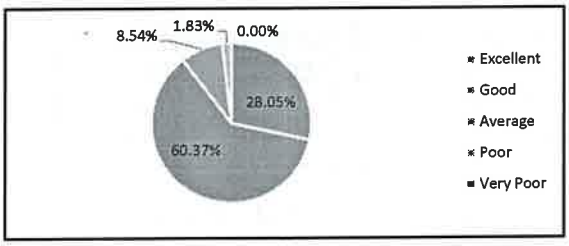
7 Relevance of course contents in the program of study

	Count	Percentage
Excellent	36	21.95%
Good	107	65.24%
Average	19	11.59%
Poor	2	1.22%
Very Poor	0	0.00%



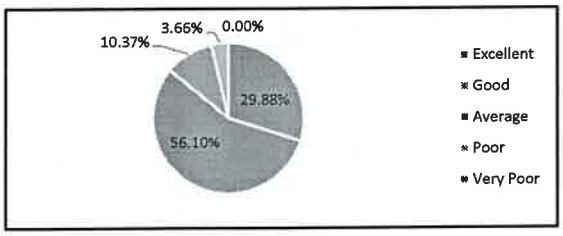
8 Process of Internal & External Assessment

	Count	Percentage
Excellent	46	28.05%
Good	99	60.37%
Average	14	8.54%
Poor	3	1.83%
Very Poor	0	0.00%



9 Provision for self learning/project based learning

	Count	Percentage
Excellent	49	29.88%
Good	92	56.10%
Average	17	10.37%
Poor	6	3.66%
Very Poor	0	0.00%



Signature of Co-Ordinator

HOD/ME

Head of the Department
Mechanical Engineering
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

PRINCIPAL
Madanapalle Institute of
Technology & Science
MADANAPALLE

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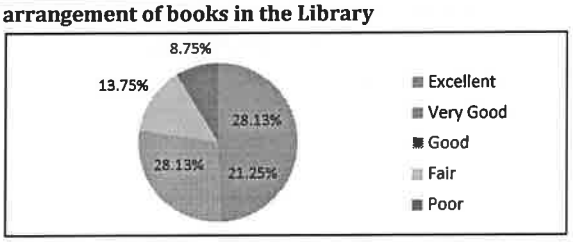
DEPARTMENT OF MECHANICAL ENGINEERING

Student Feedback on Facilities for A.Y. 2021-22

Total N.o of Responses:	160

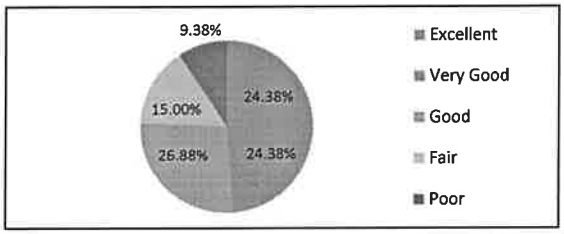
1 Rate the level of satisfaction with the cataloging and arrangement of books in the Library

	Count	Percentage
Excellent	45	28.13%
Very Good	34	21.25%
Good	45	28.13%
Fair	22	13.75%
Poor	14	8.75%



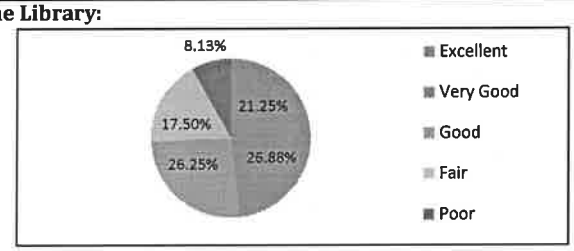
2 Rate the level of satisfaction with the available Books & Reading Space in the Library

	Count	Percentage
Excellent	39	24.38%
Very Good	39	24.38%
Good	43	26.88%
Fair	24	15.00%
Poor	15	9.38%



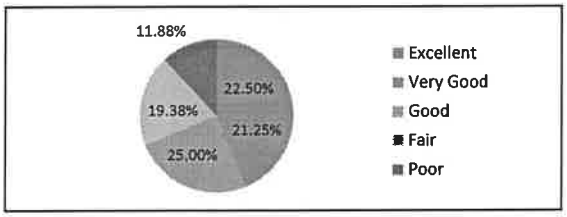
3 Rate the number of titles in subject availability in the Library:

	Count	Percentage
Excellent	34	21.25%
Very Good	43	26.88%
Good	42	26.25%
Fair	28	17.50%
Poor	13	8.13%



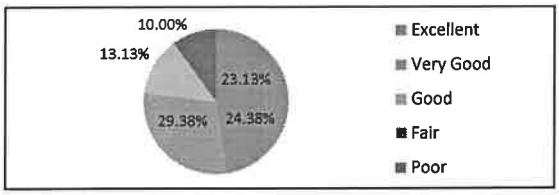
4 Rate the services of Book Store / Xerox facilities on our Campus

	Count	Percentage
Excellent	36	22.50%
Very Good	34	21.25%
Good	40	25.00%
Fair	31	19.38%
Poor	19	11.88%



5 Rate the availability of computers in the computer center as and when you require

	Count	Percentage
Excellent	37	23.13%
Very Good	39	24.38%
Good	47	29.38%
Fair	21	13.13%
Poor	16	10.00%



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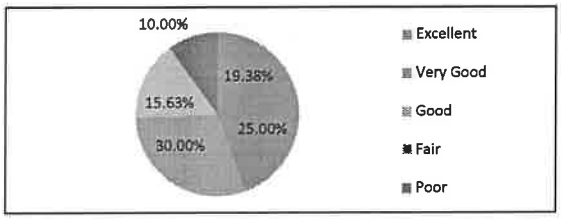
Student Feedback on Facilities for A.Y. 2021-22

Total N.o of Responses:	160

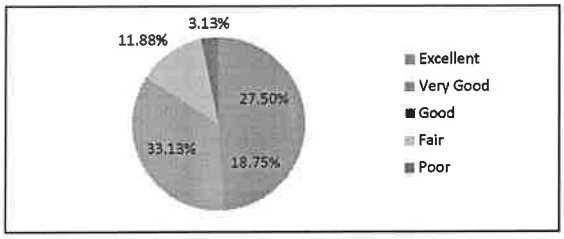
6 Rate the availability of educational online resources in the Library

	Count	Percentage
Excellent	31	19.38%
Very Good	40	25.00%
Good	48	30.00%
Fair	25	15.63%
Poor	16	10.00%



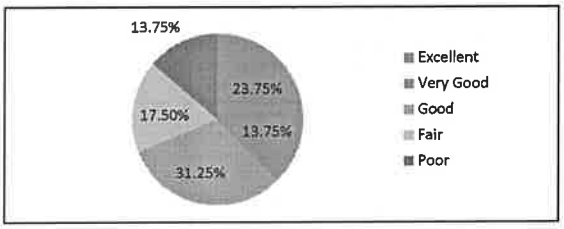
7 Rate the ambiance of classrooms and laboratories in the department

	Count	Percentage
Excellent	44	27.50%
Very Good	30	18.75%
Good	53	33.13%
Fair	19	11.88%
Poor	5	3.13%



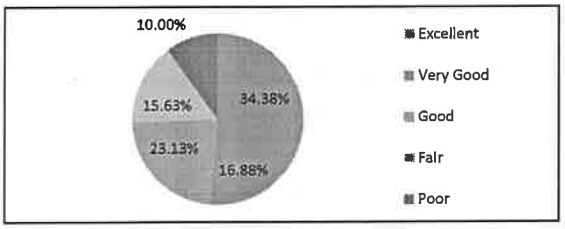
8 Rate the cleanliness of washrooms

	Count	Percentage
Excellent	38	23.75%
Very Good	22	13.75%
Good	50	31.25%
Fair	28	17.50%
Poor	22	13.75%



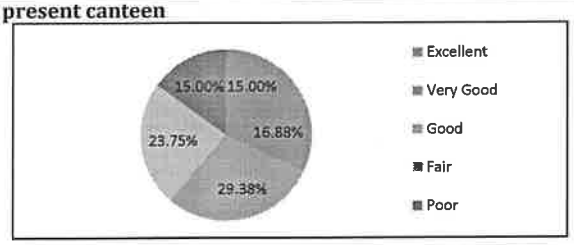
9 Rate the RO drinking water facility available on campus

	Count	Percentage
Excellent	55	34.38%
Very Good	27	16.88%
Good	37	23.13%
Fair	25	15.63%
Poor	16	10.00%



10 Rate the level of satisfaction with food served in the present canteen

	Count	Percentage
Excellent	24	15.00%
Very Good	27	16.88%
Good	47	29.38%
Fair	38	23.75%
Poor	24	15.00%



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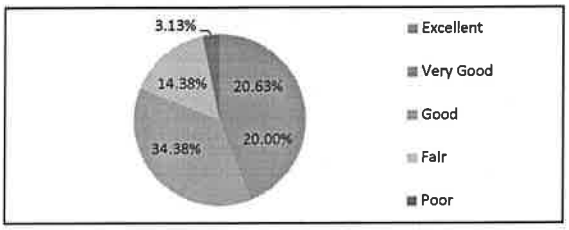
Student Feedback on Facilities for A.Y. 2021-22

Total N.o of Responses:	160

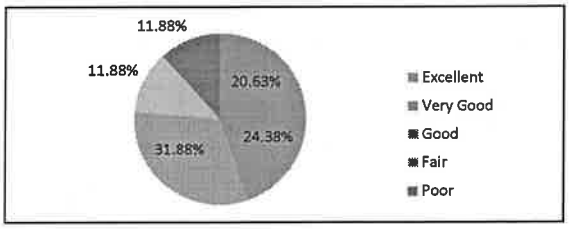
11 Rate the student clubs on campus

	Count	Percentage
Excellent	33	20.63%
Very Good	32	20.00%
Good	55	34.38%
Fair	23	14.38%
Poor	5	3.13%



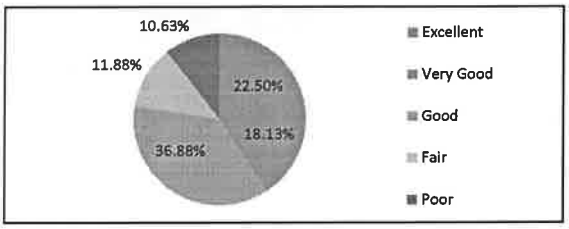
12 Rate the Student Welfare Office's helpfulness

	Count	Percentage
Excellent	33	20.63%
Very Good	39	24.38%
Good	51	31.88%
Fair	19	11.88%
Poor	19	11.88%



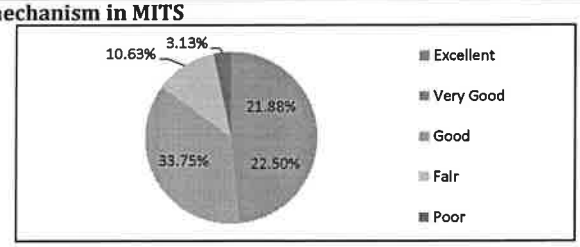
13 Rate your view on social services offered by MITS

	Count	Percentage
Excellent	36	22.50%
Very Good	29	18.13%
Good	59	36.88%
Fair	19	11.88%
Poor	17	10.63%



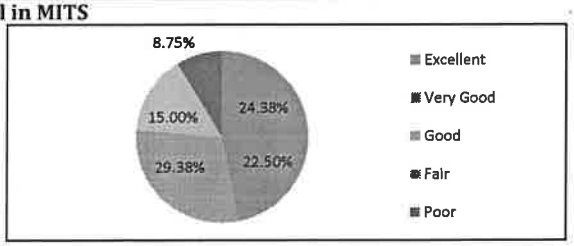
14 Rate your opinion on the grievance and redressal mechanism in MITS

	Count	Percentage
Excellent	35	21.88%
Very Good	36	22.50%
Good	54	33.75%
Fair	17	10.63%
Poor	5	3.13%



15 Rate the functioning of the Training & Placement Cell in MITS

	Count	Percentage
Excellent	39	24.38%
Very Good	36	22.50%
Good	47	29.38%
Fair	24	15.00%
Poor	14	8.75%



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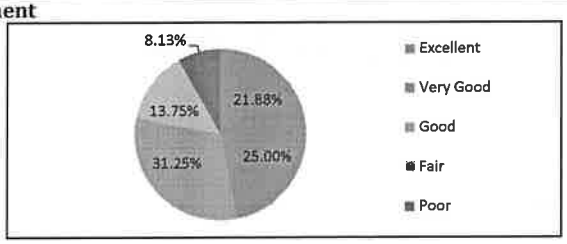
DEPARTMENT OF MECHANICAL ENGINEERING

Student Feedback on Facilities for A.Y. 2021-22

Total N.o of Responses:	160

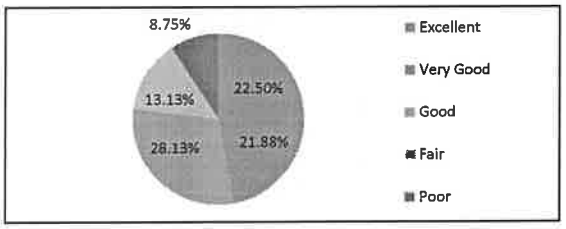
16 16. Rate the working condition of laboratory equipment

	Count	Percentage
Excellent	35	21.88%
Very Good	40	25.00%
Good	50	31.25%
Fair	22	13.75%
Poor	13	8.13%



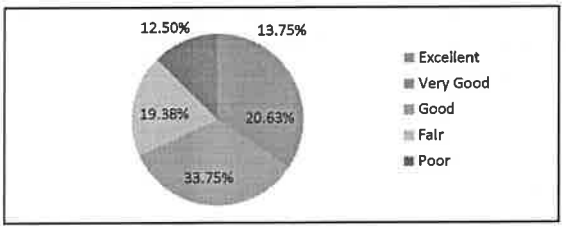
17 Rate the NSS / NCC activities of MITS

	Count	Percentage
Excellent	36	22.50%
Very Good	35	21.88%
Good	45	28.13%
Fair	21	13.13%
Poor	14	8.75%



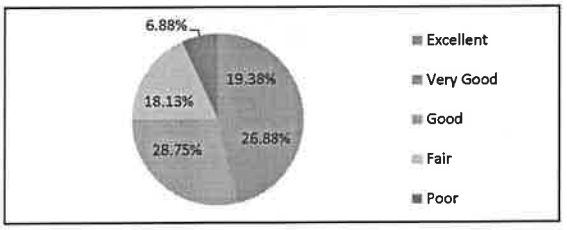
18 Rate the hostel facilities in MITS

	Count	Percentage
Excellent	22	13.75%
Very Good	33	20.63%
Good	54	33.75%
Fair	31	19.38%
Poor	20	12.50%



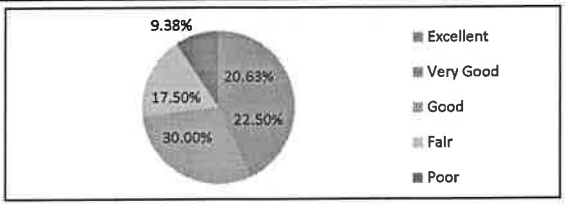
19 Rate the medical facilities on the MITS campus

	Count	Percentage
Excellent	31	19.38%
Very Good	43	26.88%
Good	46	28.75%
Fair	29	18.13%
Poor	11	6.88%



20 Rate the transportation facilities in MITS

	Count	Percentage
Excellent	33	20.63%
Very Good	36	22.50%
Good	48	30.00%
Fair	28	17.50%
Poor	15	9.38%



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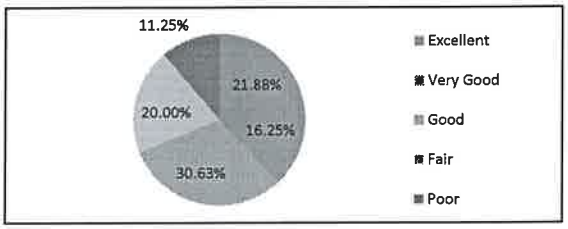
Student Feedback on Facilities for A.Y. 2021-22

Total N.o of Responses:	160

21 Rate the Sports facilities in MITS

	Count	Percentage
Excellent	35	21.88%
Very Good	26	16.25%
Good	49	30.63%
Fair	32	20.00%
Poor	18	11.25%



Signature of the Cooridnator

HOD-ME

PRINCIPAL
Madanapalle Institute of
Technology & Science
MADANAPALLE

Head of the Department
Mechanical Engineering
Madanapalle Institute of Technology & Science
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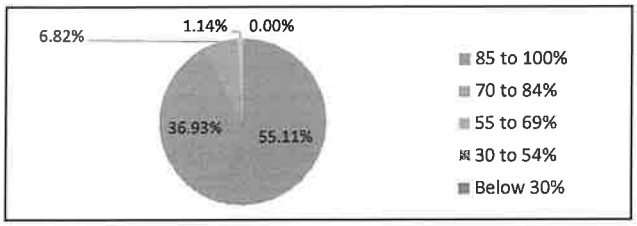
DEPARTMENT OF MECHANICAL ENGINEERING

Feedback on Student Satisfaction Survey (SSS) on Teaching Learning Process for AY 2021-22

Total N.o of Responses:	176

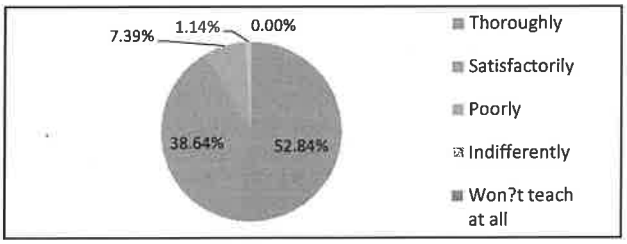
1 How much of the syllabus was covered in the class?

Syllabus	Count	Percentage
85 to 100%	97	55.11%
70 to 84%	65	36.93%
55 to 69%	12	6.82%
30 to 54%	2	1.14%
Below 30%	0	0.00%



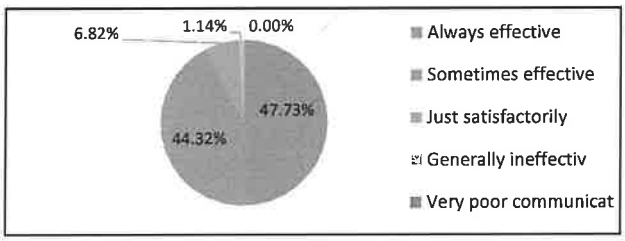
2 How well did the teachers prepare for the classes?

	Count	Percentage
Thoroughly	93	52.84%
Satisfactorily	68	38.64%
Poorly	13	7.39%
Indifferently	2	1.14%
Won?t teach at all	0	0.00%



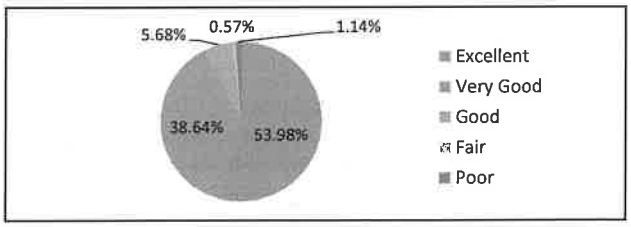
3 How well were the teachers able to communicate?

	Count	Percentage
Always effective	84	47.73%
Sometimes effective	78	44.32%
Just satisfactorily	12	6.82%
Generally ineffectiv	2	1.14%
Very poor communicat	0	0.00%



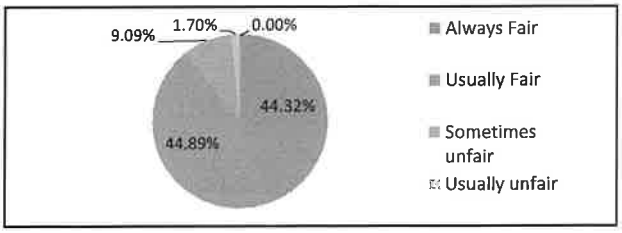
4 The teacher's approach to teaching can best be described as

	Count	Percentage
Excellent	95	53.98%
Very Good	68	38.64%
Good	10	5.68%
Fair	1	0.57%
Poor	2	1.14%



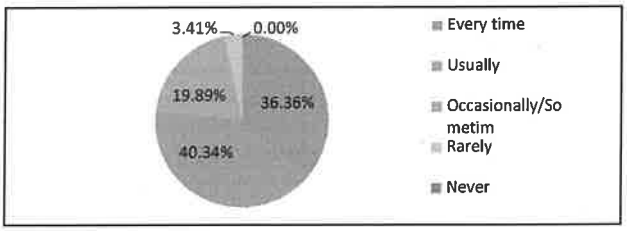
5 Fairness of the internal evaluation process by the teachers

	Count	Percentage
Always Fair	78	44.32%
Usually Fair	79	44.89%
Sometimes unfair	16	9.09%
Usually unfair	3	1.70%
unfair	0	0.00%



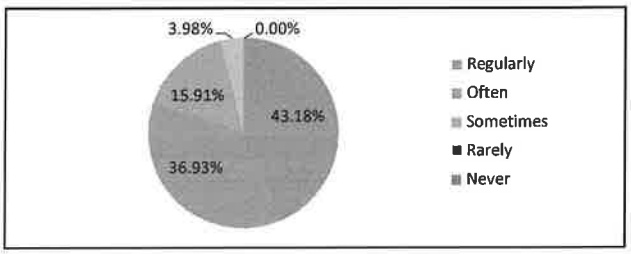
6 Was your performance in assignments discussed with you?

	Count	Percentage
Every time	64	36.36%
Usually	71	40.34%
Occasionally/Sometim	35	19.89%
Rarely	6	3.41%
Never	0	0.00%



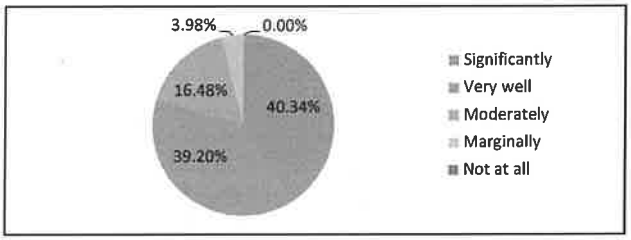
7 The institute takes active interest in promoting internship, student exchange, field visit opportunities for students.

	Count	Percentage
Regularly	76	43.18%
Often	65	36.93%
Sometimes	28	15.91%
Rarely	7	3.98%
Never	0	0.00%



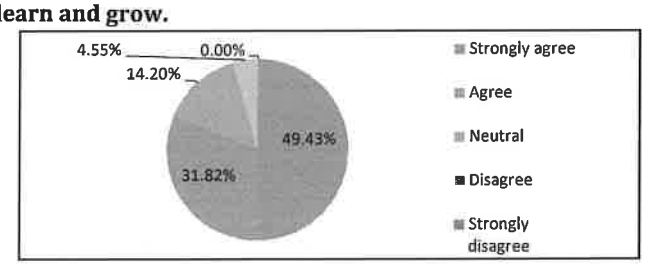
8 The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.

	Count	Percentage
Significantly	71	40.34%
Very well	69	39.20%
Moderately	29	16.48%
Marginally	7	3.98%
Not at all	0	0.00%



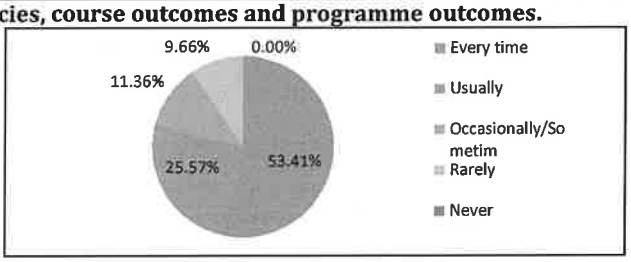
9 The institution provides multiple opportunities to learn and grow.

	Count	Percentage
Strongly agree	87	49.43%
Agree	56	31.82%
Neutral	25	14.20%
Disagree	8	4.55%
Strongly disagree	0	0.00%



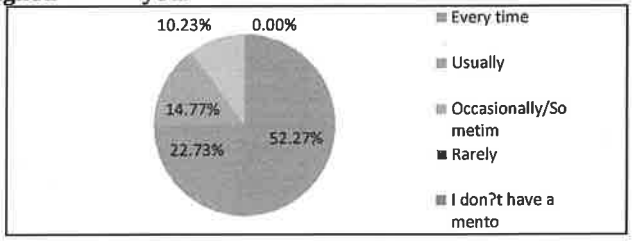
10 Teachers inform you about your expected competencies, course outcomes and programme outcomes.

	Count	Percentage
Every time	94	53.41%
Usually	45	25.57%
Occasionally/Sometim	20	11.36%
Rarely	17	9.66%
Never	0	0.00%



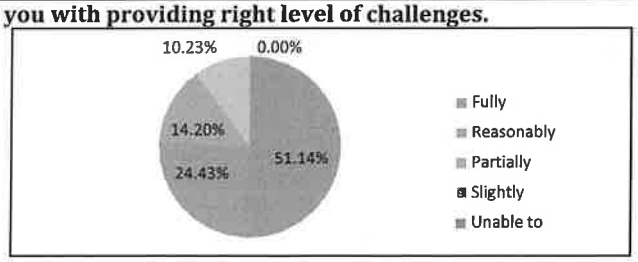
11 Your mentor does a necessary follow-up with an assigned task to you.

	Count	Percentage
Every time	92	52.27%
Usually	40	22.73%
Occasionally/Sometim	26	14.77%
Rarely	18	10.23%
I don?t have a mento	0	0.00%



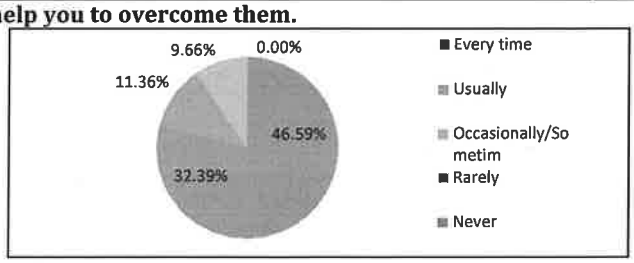
12 The teachers identify your strengths and encourage you with providing right level of challenges.

	Count	Percentage
Fully	90	51.14%
Reasonably	43	24.43%
Partially	25	14.20%
Slightly	18	10.23%
Unable to	0	0.00%



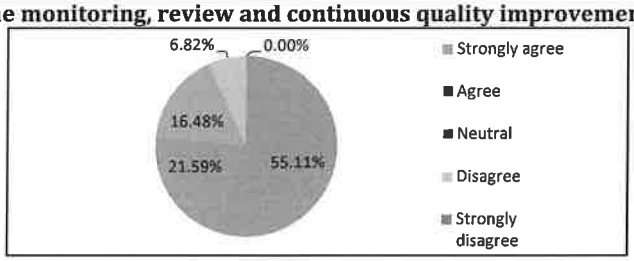
13 Teachers are able to identify your weaknesses and help you to overcome them.

	Count	Percentage
Every time	82	46.59%
Usually	57	32.39%
Occasionally/Sometim	20	11.36%
Rarely	17	9.66%
Never	0	0.00%



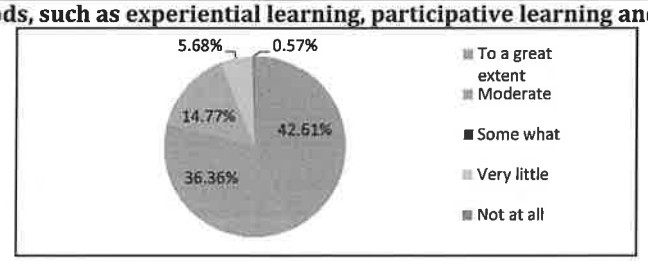
14 The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the

	Count	Percentage
Strongly agree	97	55.11%
Agree	38	21.59%
Neutral	29	16.48%
Disagree	12	6.82%
Strongly disagree	0	0.00%



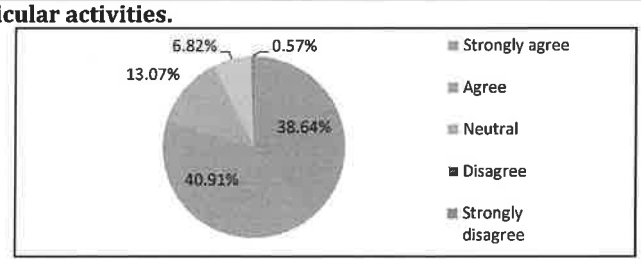
15 The institution/ teachers use student centric methods, such as experiential learning, participative learning and

	Count	Percentage
To a great extent	75	42.61%
Moderate	64	36.36%
Some what	26	14.77%
Very little	10	5.68%
Not at all	1	0.57%



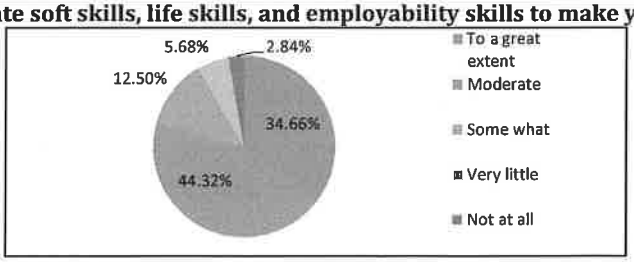
16 Teachers encourage you to participate in extracurricular activities.

	Count	Percentage
Strongly agree	68	38.64%
Agree	72	40.91%
Neutral	23	13.07%
Disagree	12	6.82%
Strongly disagree	1	0.57%



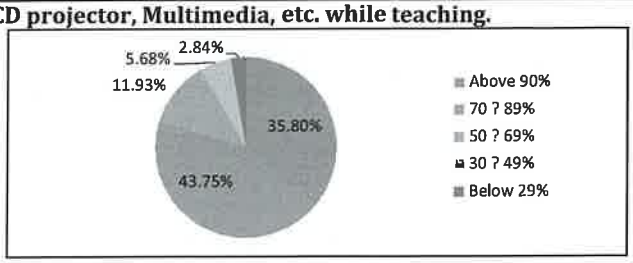
17 Efforts are made by the institute/teachers to inculcate soft skills, life skills, and employability skills to make you

	Count	Percentage
To a great extent	61	34.66%
Moderate	78	44.32%
Some what	22	12.50%
Very little	10	5.68%
Not at all	5	2.84%



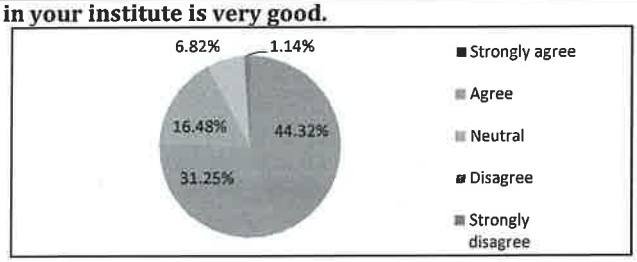
18 What percentage of teachers use ICT tools such as LCD projector, Multimedia, etc. while teaching.

	Count	Percentage
Above 90%	63	35.80%
70 ? 89%	77	43.75%
50 ? 69%	21	11.93%
30 ? 49%	10	5.68%
Below 29%	5	2.84%



19 The overall quality of the teaching-learning process in your institute is very good.

	Count	Percentage
Strongly agree	78	44.32%
Agree	55	31.25%
Neutral	29	16.48%
Disagree	12	6.82%
Strongly disagree	2	1.14%



Signature of the Cooridnator

HOD-ME

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MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Course Exit Survey

Programme: B.Tech

Year & Semester: II Year II Semester **A.Y: 2021-22**

Below are given some fields specially related to course and effectiveness. You may indicate the extent to which you took advantage of the various learning points of the course. We consider your response highly valuable. You may rate your response as follows on a four point scale. tick mark against your option

1-To a very little extent **2-To a slight extent** **3- To a moderate extent** **4- To a Great extent**

Course Outcomes: At the end of course, the student will be able to	Response rating				Total Responses	Attainment of Cos	
	1	2	3	4		Attainment of	% of Attainm
20HUM101 Economics and Financial Accounting for Engineers							
1.Understand Engineering economics basic concepts.	**52**	**48**	**70**	**56**	226	0.75	74.74
2.Analyze the concepts of demand, elasticity, supply, Production, Cost Analysis and its	49	58	64	55	226	0.77	76.68
3.Compare different market structures and identify suitable market,	46	48	78	54	226	0.76	76.30
4. Demonstrate an understanding and analyzing the accounting statements, and	45	50	80	51	226	0.76	76.04
5. Demonstrate the ability to apply knowledge of accounting concepts through	49	46	78	53	226	0.76	76.04
20MAT108 PROBABILITY AND STATISTICS							
1. Understand the probability and random variables and its applications in mechanical	48	48	55	75	226	0.79	78.89
2. Get the importance of and discrete and continuous probability distributions in	45	54	65	62	226	0.77	77.20
3.Solve real time problems in Reliability engineering and study about joint probability	49	43	64	70	226	0.79	78.63
4. Apply classical inference involving confidence intervals and hypothesis testing in	46	45	64	71	226	0.79	79.27
5.Analyze the statistical experimental designs	45	44	64	73	226	0.80	79.92
20ME106 MECHANICS OF SOLIDS							
1.Estimate the fundamental stresses, strains, and principal stresses by analytical and	44	27	44	111	226	0.87	87.31
2. Apply the properties of steam to design steam systems.	24	34	45	123	226	0.93	93.13
3. Apply the second law of thermodynamics for the design of heat engine, heat pump	30	39	57	100	226	0.88	87.95
4. Explain the cycles on which IC engines, Gas turbines and refrigerator works.	25	38	58	105	226	0.90	90.03
5. Explain the importance of Tds relations and be able to use psychometric charts for	37	34	57	98	226	0.87	86.53

20ME107 THEORY OF MACHINES							
1.Identify the different mechanisms and their inversions in real life applications	47	40	64	75	226	0.80	80.18
2. Calculate the velocity and acceleration of simple mechanisms by graphical	45	34	81	66	226	0.80	80.31
3.Understand the principle of working of a gyroscope and governors; and classify	49	39	69	69	226	0.79	79.02
4.Estimate the unbalance mass in rotating machines using analytical and graphical	49	46	59	72	226	0.78	78.50
5.To study the free and forced vibrations of single degree freedom systems.	43	38	68	77	226	0.82	81.74
20ME108 MANUFACTURING TECHNOLOGY- I							
1. Selection of suitable manufacturing process for a given product by pattern making,	39	39	66	82	226	0.83	83.29
2. Selection of metal joining process for different metal using different welding	46	44	66	70	226	0.79	79.27
3.Production of components on sheet metal by using processes like blanking,	42	38	75	71	226	0.81	81.22
4.Compare cold working and hot working processes using rolling, extrusion process,	35	40	77	74	226	0.83	83.16
5. Making products from powder form by employing different techniques.	40	38	72	76	226	0.82	82.38
20ME205 MANUFACTURING TECHNOLOGY– I LABORATORY							
1. Produce real time casting on their own.	48	38	63	77	226	0.80	80.44
2.Prepare various joints by using various welding process	36	35	74	81	226	0.84	84.46
3. Perform blanking, piercing and forming operations on the sheet metal.	41	30	65	90	226	0.85	84.97
4.Prepare bottle with cape by using injection and vacuum forming.	40	34	75	77	226	0.83	83.03
5.Bend a pipe to the required angle.	38	41	59	88	226	0.84	84.07
20ME206 MECHANICS OF SOLIDS LABORATORY							
1.Evaluate hardness value for various materials using Rockwell hardness tester	50	28	63	85	226	0.82	82.25
2.Plot the stress stain curve of a ductile material under tensile and compressive load	44	36	74	72	226	0.81	81.09
3.Calculate the slope and deflection of simply supported beam under point load	31	29	88	78	226	0.86	86.14
4. Experiment on a spring to interpret the stiffness and shear modulus.	27	39	76	84	226	0.87	86.66
5.Apply the concept of impact loading and to determine impact values for various	39	35	71	81	226	0.84	83.68
20ME207 DYNAMICS AND ELECTRICAL MACHINES LABORATORY							
1. Analyze the motion and response of free, forced and damped vibration systems	43	44	66	73	226	0.80	80.44
2.Experiment with the static and dynamic balancing of rotating mass system	34	42	69	81	226	0.84	84.07
3.Assess the effect of Gyroscopic couple in a dynamic body.	32	41	75	78	226	0.84	84.33
4. Examine the phenomenon of whirling in shafts.	41	39	72	74	226	0.82	81.74
5.Experiment with Governors and cam-follower systems.	33	36	75	82	226	0.85	85.23

20HUM901 INDIAN CONSTITUTION							
1.Understand the functions of the Indian government.	51	40	71	64	226	0.82	81.74
2.Understand and abide the rules of the Indian constitution.	44	43	70	69	226	0.80	79.79

20ENG601 CORPORATE COMMUNICATION LABORATORY							
1.Read articles from magazines and newspapers	46	34	77	69	226	0.80	80.44
2.Participate effectively in informal conversations	43	43	68	72	226	0.80	80.44
3.Introduce themselves and their friends and express opinions in English	37	33	76	80	226	0.84	84.33
4.Comprehend conversations and short talks delivered in English	37	36	77	76	226	0.83	83.42
5.Write short essays of a general kind, draft Reports and personal letters and emails	35	35	82	74	226	0.84	83.81

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(UGC-AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Course Exit Survey

Year & Semester: III Year II Semester **A.Y: 2021-22**

Below are given some fields specially related to course and effectiveness. You may indicate the extent to which you took advantage of the various learning points of the course. We consider your response highly valuable. You may rate your response as follows on a four point scale. tick mark against your option

1-To a very little extent **2-To a slight extent** **3- To a moderate extent** **4- To a Great extent**

Course Outcomes: At the end of course, the student will be able to	Response rating				Attainment of Cos	
	1	2	3	4	Attainment	% of Attai
18ENG102 English Communication -Reading and Writing						
1. Read articles from magazines and newspapers	59	21	53	75	0.67	67.31
2.Participate effectively in informal conversations.	35	45	53	75	0.70	70.19
3.Introduce themselves and their friends and express opinions in English	34	24	73	77	0.73	73.20
4. Comprehend conversations and short talks delivered in English	36	26	56	90	0.74	74.04
5.Write short essays of a general kind and personal letters and emails in English.	35	29	56	88	0.74	73.68
18ME113 CAD/ CAM						
1. Understand the engineering design process and its role in graphic communication process.	62	31	39	76	0.66	65.50
2. Use CAD software to generate and interpret a computer model - technical drawings of parts	41	38	51	78	0.70	69.95
3. To demonstrate a basic and advanced understanding of NC, CNC and DNC strategies.	32	36	57	83	0.73	72.96
4.To demonstrate a basic understanding of machining fundamentals including speed and feed	39	31	49	89	0.73	72.60
5.To demonstrate an ability to set-up, write part program using G- Codes and M- Codes to	40	24	64	80	0.72	72.12
18ME114 Thermal Engineering						
1.Apply thermodynamic concepts to solve the problems on different industrial Apply thermodynamic	58	42	52	56	0.63	62.74
2.Understand the concept of steam turbines, nozzles and be able to solve the problems	31	37	72	68	0.71	71.27
3.Learning the working principles of various refrigeration cycles and acquire knowledge	37	31	75	65	0.70	70.19
4. Apply thermodynamic concepts to design the gas turbines and jet propulsion.	35	40	65	68	0.70	69.95
5 Explain the functioning and features of IC engines, components, auxiliaries,	42	33	57	76	0.70	70.07

18ME209 Advanced Manufacturing						
1. Student should be able to Write part programs for lathe and milling operations.	58	28	48	74	0.67	66.59
2. Student should be able to do produce products using CNC machines.	33	35	62	78	0.72	72.24
3. Student will be able to make products by EDM process.	33	31	61	83	0.73	73.32
4. Student will be able to do wear analysis using Pin on Disc Tribometer	37	31	56	84	0.72	72.48
5. Student will be able to do product by 3D printing process.	41	32	50	85	0.72	71.51
18ME210 Robotics Laboratory						
1. The student will be able to weather monitoring using IoT programming logic. Students will	59	25	54	70	0.66	66.23
2. Students will learn the concepts and working of soil moisture sensor. They will be able to	35	31	62	80	0.72	72.48
3. Students will learn DTMF Decoder and its working and also detect DTMF tones using	30	28	70	80	0.74	74.04
4. The student will be able to learn the placement and connection of IR sensors in Obstacle	29	35	63	81	0.74	73.56
5. Students will learn accelerometers and their working. They will also learn to interface	42	25	49	92	0.73	72.96
DE-III 18ME406 Design and Analysis of Welded Structures						
1. Have a fundamental knowledge of welded structures, its design principle, welding	11	8	19	23	0.72	72.13
2. Have a clear overall picture about various welded symbols and terminology, different	11	10	15	25	0.72	72.13
3. Be familiar with various types of static loadings and their combinations for different	11	13	11	26	0.71	71.31
4. Have a mastery of fatigue or dynamic loading on welded joints and concepts of stress	10	9	21	21	0.72	71.72
5. Be able to know the concepts of heat distribution, residual stress, distortion and weld	13	8	17	23	0.70	70.49
DE-III 18ME407 Refrigeration and Air Conditioning						
1. Describe the ideal refrigeration cycles and applications of refrigeration systems.	10	4	8	10	0.64	64.06
2. Compute the COP and power requirement of vapour compression refrigeration system,	4	7	10	11	0.72	71.88
3. Explain the working principles of various components of vapour compression	6	6	9	11	0.70	69.53
4. Analyze air-conditioning processes using the principles of psychrometry.	5	6	6	15	0.74	74.22
5. Evaluate cooling and heating loads in an air-conditioning system.	6	3	8	15	0.75	75.00
DE-III 18ME408 Internet of Manufacturing Things						
1. Be able to understand the fundamentals of IoT and its application in manufacturing systems.	15	10	9	15	0.62	62.24
2. Have a clear overall picture of multisource manufacturing information sensing system	8	9	15	17	0.71	70.92
3. Outline various methods of IoT enabled smart assembly systems and summarize the usage of smart trolleys	8	11	13	17	0.70	69.90

4. Make use of various RT- production performance analysis methods for test its applicability to real life problems.	11	9	13	16	0.67	67.35
5. Make use of various RT- information driven production scheduling system for test its applicability to real life problems.	11	12	13	13	0.64	64.29
DE-III 18ME409 Solar Energy for Process Heat and Power Generation						
1. Understand the principles of operation of the broad spectrum of renewable energy	12	8	15	31	0.75	74.62
2. Estimate or measure solar radiation at any location.	3	6	22	35	0.84	83.71
3. Design appropriate solar collectors required in various applications.	6	7	22	31	0.80	79.55
4. Discuss the importance of storage systems, types of thermal storage and alternate	5	6	18	37	0.83	82.95
5. Understand the principles of solar cooking, solar desalination, solar ponds, solar space	8	5	19	34	0.80	79.92
OE-II 18CE302 Environmental Impact Assessment						
1. Utilize the various methods used in predicting environmental impacts.	4	3	4	9	0.73	72.50
2. Utilize site information to interpret impacts on land and groundwater.	1	4	8	7	0.76	76.25
3. Outline the environmental impacts of various development activities on existing	2	2	7	9	0.79	78.75
4. Utilize the procedures and various protocols involved in preparation of environmental	1	6	2	11	0.79	78.75
5. Utilize the implications of environmental prevention and protection acts in relation to	2	2	3	13	0.84	83.75
OE-II 18HUM302 Human Resource Development						
1. Understand the concept of HRM, its nature, scope, functions, policies and strategies;	1	3	2	6	0.77	77.08
2. Analyse human resource planning and apply in designing jobs;	0	1	4	7	0.88	87.50
3. Evaluate the recruitment, selection and the process of performance appraisal;	0	2	2	8	0.88	87.50
4. Understand the importance of training and development activities	1	2	2	7	0.81	81.25
5. Examine the industrial relations, trade unions, employee safety and health measures.	1	3	1	7	0.79	79.17
OE-II 18EEE302 Introduction to MEMS						
1. Explain the fundamentals of MEMS materials, their physical properties and Principles	0	1	1	4	0.88	87.50
2. Analyze the Micro sensors and actuators and its fabrication	1	0	3	2	0.75	75.00
3. Explain the materials for MEMS and Microsystems	0	0	3	3	0.88	87.50
4. Design MEMS using microfabrication techniques	0	0	2	4	0.92	91.67
5. Explain the advantages of MEMS technology for mechanical, optical, and chemical	0	1	1	4	0.88	87.50
OE-II 18CE301 Ground Improvement Techniques						
1. Identify basic deficiencies of various soil deposits and able to decide various	1	0	3	5	0.83	83.33
2. Implement different techniques of soildensification.	2	2	0	5	0.72	72.22
3. Use admixtures in stabilizing the soil.	2	1	0	6	0.78	77.78
4. Use geo-synthetics materials in engineering applications.	3	0	0	6	0.75	75.00
5. Suggest different types of foundation techniques and methods to control swelling of soil	3	0	0	6	0.75	75.00

OE-II 18ECE301 Bio-Medical Electronics						
1. Understand the applications of biological transducers in medical field.	1	2	1	3	0.71	71.43
2. Analyze the design of bio-electrodes and bio-amplifiers.	2	2	0	3	0.64	64.29
3. Apply suitable measuring instruments to measure various medical parameters.	1	1	2	3	0.75	75.00
4. Understand and test various imaging techniques used in bio-medical diagnosis.	1	1	0	5	0.82	82.14
5. Analyze the applications of artificial medical aids.	1	2	0	4	0.75	75.00
OE-II 18CSE302 E-Learning Technologies						
1. Understand the concept of e-learning and integrating the technology.	4	3	5	4	0.64	64.06
2. Make the students to understand the technology mediated communication and its	5	3	6	2	0.58	57.81
3. Understand the technology mediated communication and its applications.	1	3	7	5	0.75	75.00
4. Include knowledge in planning models of E-learning in in virtual classroom and	1	4	5	6	0.75	75.00
5. Make the students to understand the future of E-learning technology and its development.	1	4	5	6	0.75	75.00
OE-II 18CSE301 Operating Systems						
1. Write shell scripts using korn shell	3	10	17	12	0.73	72.62
2. Create processes & threads and implement the various process scheduling	9	7	16	10	0.66	66.07
3. Analyse the concurrent processing and deadlock situations.	8	8	14	12	0.68	67.86
4. Design algorithmic solutions to solve memory management problems.	8	7	14	13	0.69	69.05
5. Implement the different types of file management techniques.	8	6	15	13	0.70	69.64
OE-II 18PHY302 LASER Physics and Advanced LASER Technology						
1. Understand the principle of phenomenon of laser and identify the operating principle involved	1	0	0	0	0.25	25.00
2. Estimate stability requirements in producing laser light by different types of sources	1	0	0	0	0.25	25.00
3. Differentiate or list the various types of lasers and their means of excitation.	0	1	0	0	0.50	50.00
4. Assess (Identify) which laser would best meet the need for a particular industrial or research	1	0	0	0	0.25	25.00
5. Student can knowledge of latest technological developments in laser technology.	0	1	0	0	0.50	50.00
OE-II 18PHY301 Optical Physics and its Applications						
1. Recollect the fundamental characteristics of light and their mathematical principles.	0	1	0	0	0.50	50.00
2. Learn the principles of superposition, Interference and Diffraction	0	0	0	1	1.00	100.00
3. Understand nonlinear optics and photonics phenomena.	0	1	0	0	0.50	50.00
4. Be exposed to the application of optical techniques in cutting edge research areas.	0	0	0	1	1.00	100.00
5. Describe the basic laser physics, working of lasers and principle of propagation of light in	0	1	0	0	0.50	50.00

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(UGC-AUTONOMOUS)

DEPARTMENT OF MECHANICAL ENGINEERING

Course Exit Survey

Programme: B.Tech

Year & Semester: IV Year II Semester **A.Y: 2021-22**

Below are given some fields specially related to course and effectiveness. You may indicate the extent to which you took advantage of the various learning

1-To a very little extent **2-To a slight extent** **3- To a moderate extent** **4- To a Great extent**

Course Outcomes: At the end of course, the student will be able to	Response rating					Attainment of Cos	
	1	2	3	4		Attainmen	% of Attainmer
DE-VI 18ME422 Electric Vehicle Technology							
1.Understand the various parameters involved in battery pack .	5	5	4	9	23	0.68	68.48
2. Classify the BMS based on functionality.	2	6	8	7	23	0.72	71.74
3.Understand the application of BMS in Electric Vehicle.	4	4	8	7	23	0.70	69.57
4. Interpret the design of BMS.	4	2	10	7	23	0.72	71.74
5.Execute the installation, testing of BMS.	2	4	8	9	23	0.76	76.09
DE-VI 18ME423 Additive Manufacturing							
1.Understand the concept of AM.	7	6	11	5	29	0.62	62.07
2.Analyze and select a rapid manufacturing technology for a given component.	8	9	8	4	29	0.57	56.90
3. Select the directed energy deposition AM process for the given application.	11	2	13	3	29	0.57	56.90
4. Selection of materials for AM.	10	3	10	6	29	0.60	60.34
5.Explain the application of AM in various fields.	7	4	11	7	29	0.66	65.52
DE-VI 18ME425 Entrepreneurship and Project Management							
1. Describes the sources of new business ideas, methods to develop new ideas	14	6	18	27	65	0.72	72.31
2. Able to Write a business plan which includes Financial plan, Organizational Pl	12	9	23	21	65	0.70	70.38
3. Able to identify the financial sources for new business ventures	15	6	19	25	65	0.71	70.77
4. Able to select a plant layout and draw a plant layout	15	7	19	24	65	0.70	70.00
5.Design a work place and Analyze the market research for new business.	11	12	15	27	65	0.72	72.31
OE-IV 18CE304 Green Building and Energy Conservation							
1. An understanding on green building materials and construction techniques.	4	3	9	9	25	0.73	73.00
2. Knowledge on renewable energy and energy conservation through material	3	2	10	10	25	0.77	77.00
3. A thorough understanding on designing green buildings	3	1	11	10	25	0.78	78.00

OE-IV 18EEE304 Electrical Safety							
1.Describe electrical hazards and safety equipment.	1	0	0	0	1	0.25	25.00
2. Analyze and apply various grounding and bonding techniques.	1	0	0	0	1	0.25	25.00
3. Select appropriate safety method for low, medium and high voltage equipme	1	0	0	0	1	0.25	25.00
4.Participate in a safety team.	1	0	0	0	1	0.25	25.00
5.Carry out proper maintenance of electrical equipment by understanding varic	1	0	0	0	1	0.25	25.00
OE-IV 18ECE304 Wireless Sensor Networks							
1.Design wireless sensor networks for a given application	1	1	0	1	3	0.58	58.33
2.Understand emerging research areas in the field of sensor networks	1	1	0	1	3	0.58	58.33
3.Understand MAC protocols used for different communication standards used	0	1	0	2	3	0.83	83.33
4.Explore new protocols for WSN.	1	1	0	1	3	0.58	58.33
OE-IV 18CSE304 Mobile Application Development							
1.Work on android basic components and Install android.	1	0	0	0	1	0.25	25.00
2. Create User Interfaces with various Layouts and views using android building	1	0	0	0	1	0.25	25.00
3.Work with Broadcast Receivers and Services	1	0	0	0	1	0.25	25.00
4. Create Database in Android, Store and Retrieve data using SQLite and Conter	1	0	0	0	1	0.25	25.00
5. Develop widgets, Wall papers for an android application and write programs	1	0	0	0	1	0.25	25.00
OE-IV 118CSE305 Software Project Management							
1. Maintain software projects and monitor software project process	7	1	7	6	21	0.64	64.29
2. Design and develop project modules and assign resources.	5	3	6	7	21	0.68	67.86
3. Understand software quality and project management techniques	4	4	7	6	21	0.68	67.86
4.Comprehend, assess, and calculates the cost of risk involved in a project mana	4	3	6	8	21	0.71	71.43
5. . Use Primavera &Redmine software management tools.	5	3	5	8	21	0.69	69.05
OE-IV 18CSE306 Software Testing							
1.. Understand the basic principles of testing, path testing and compare differer	3	2	4	5	14	0.70	69.64
2.Explain different transaction flow and data flow testing techniques.	2	3	4	5	14	0.71	71.43
3. Understand and identify various Domains testing strategies, methods and de	2	3	4	5	14	0.71	71.43
4. Test the functions and state of the applications manually and by automation	3	1	4	6	14	0.73	73.21
5. Apply and use software testing methods and various test tools.	2	1	5	6	14	0.77	76.79

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Course Exit Survey

Programme: B.Tech

Year & Semester: II Year I Semester **A.Y: 2021-22**

Below are given some fields specially related to course and effectiveness. You may indicate the extent to which you took advantage of the various learning points of the course. We consider your response highly valuable. You may rate your response as follows on a four point scale. tick mark against your option

1-To a very little extent **2-To a slight extent** **3- To a moderate extent** **4- To a Great extent**

Course Outcomes: At the end of course, the student will be able to	Response rating				Total Responses	Attainment of Cos	
	1	2	3	4		Attainment of Cos	% of Attainment
20MAT103 NUMERICAL METHODS							
1. Solve the system of algebraic and transcendental equations.	23	11	48	111	193	0.82	81.99
2. interpolate the equal and unequal spaced arguments of function.	29	19	53	92	193	0.77	76.94
3. Apply the numerical techniques to find derivatives and integrals in the field of	17	21	50	105	193	0.81	81.48
4. Find the approximate numerical solutions to ordinary differential equations	22	23	54	94	193	0.78	78.50
5. Estimate the model parameters using the principles of least squares to a curve of best	23	21	54	95	193	0.79	78.63
						0.00	0.00
20ME102 ENGINEERING MECHANICS						0.00	0.00
1. Solve the engineering problems in case of equilibrium conditions.	30	24	53	86	193	0.75	75.26
2. Calculate the seaction forces of various supports of different structures and frictions.	22	17	74	80	193	0.77	77.46
3. Determine centroid, center of gravity and moment of inertia of various surfaces and	23	22	69	79	193	0.76	76.42
4. Calculate the characteristics of a particles subjected to a given motion	13	26	58	96	193	0.81	80.70
5. Solve the problems involving dynamics of rigid bodies	21	26	65	81	193	0.77	76.68
						0.00	0.00
20ME103 BASIC THERMODYNAMICS						0.00	0.00
1. Define the fundamentals of the zeroth and first laws of thermodynamics and explain	23	28	61	81	193	0.76	75.91
2. Apply the properties of steam to design steam systems.	19	22	65	87	193	0.78	78.50
3. Apply the second law of thermodynamics for the design of heat engine, heat pump and	21	22	61	89	193	0.78	78.24
4. Explain the cycles on which IC engines, Gas turbines and refrigerator works.	20	23	70	80	193	0.77	77.20
5. Explain the importance of Tds relations and be able to use psychometric charts for the	23	24	63	83	193	0.77	76.68
						0.00	0.00
20ME104 MATERIALS SCIENCE AND ENGNEERING						0.00	0.00
1. To develop deep knowledge of crystal structure and effect of structure on the	28	26	71	68	193	0.73	73.19
2. To understand various imperfections in crystal, dislocation mechanisms and diffusion	25	29	65	74	193	0.74	74.35
3. Student will be able understand various mechanical properties of materials and its	22	27	70	74	193	0.75	75.39
4. To understand the concept of phases and to construct the equilibrium diagrams, Fe-	23	32	57	81	193	0.75	75.39
5. To recognize the properties and applications of nonmetallic materials and Ferrous	23	28	56	86	193	0.77	76.55
						0.00	0.00
20ME105 FLUID MECHANICS AND HYDRAULIC MACHINERY						0.00	0.00
1. Interpret the properties of fluids and their applications, determine differential pressure	11	36	81	65	193	0.76	75.91
2. Distinguish between a system and control volume approach and will be able to use the	25	29	65	74	193	0.74	74.35
3. Have a clear understanding of internal flow physics and capable of estimating the major	24	27	69	73	193	0.75	74.74
4. Assess the forces acting on vanes with varied geometries and point of jet impact	23	32	57	81	193	0.75	75.39
5. Differentiate different pumps and calculate their performance characteristics.	23	28	56	86	193	0.77	76.55
						0.00	0.00
20ME202 MATERIALS SCIENCE AND ENGINEERING LABORATORY						0.00	0.00
1. The student will obtain knowledge on the microstructural analysis of various metals and	30	17	46	100	193	0.78	77.98
2. This lab enables the student to select an analytical technique to evaluate and analyze	16	23	54	100	193	0.81	80.83
3. Ability to perform different heat treatment operation and characterize the	15	17	54	107	193	0.83	82.77
4. Perform simple calculations to qualify materials properties and microstructural	18	15	57	103	193	0.82	81.74
5. Synthesis of various ceramic and MMC via powder metallurgy.	19	14	50	110	193	0.83	82.51
						0.00	0.00
20ME203 FLUID MECHANICS AND HYDRAULIC MACHINES LABORATORY						0.00	0.00
1. Verify the Bernoulli's theorem for incompressible flows.	28	20	55	90	193	0.77	76.81
2. Determine the co-efficient of discharge for a flow measuring devices like Venturimeter	15	27	65	86	193	0.79	78.76
3. Determine the co-efficient of vanes like flat and curved vanes.	17	19	76	81	193	0.79	78.63
4. Determine the performance and draw operating characteristic curves for Pelton wheel,	22	28	53	90	193	0.77	77.33
5. Determine the loss of head in pipe lines due to friction, sudden contraction,	24	13	63	93	193	0.79	79.15
20ME204 3-D MODELING LABORATORY						0.00	0.00
1. Identify of different types of bolts, nuts, welding joints screw threads, keys and	15	42	108	28	193	0.69	69.30
2. Visualize and prepare detail drawing of a given object.	17	16	49	111	193	0.83	82.90
3. Draw details and assembly of mechanical systems.	17	19	47	110	193	0.82	82.38
4. Read and interpret given drawing.	17	12	55	109	193	0.83	83.16
5. Create 3-D models using any standard CAD software.	17	12	50	114	193	0.84	83.81

20CHE901 ENVIRONMENTAL SCIENCE						0.00	0.00
1. Ability to understand the natural environment, its relationship with human activities and	26	15	33	119	193	0.82	81.74
2. The knowledge of various ecosystems and their importance along with the concepts of	16	20	45	112	193	0.83	82.77
3. Familiarity with biodiversity, its importance and the measures for the conservation of	20	12	52	109	193	0.82	82.38
4. The knowledge about the causes, effects and controlling methods for environmental	16	23	49	105	193	0.81	81.48
5. Awareness about the sustainable development, environmental ethics, social issues	17	13	47	116	193	0.84	83.94

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DEPARTMENT OF MECHANICAL ENGINEERING

Course Exit Survey

Programme: B.Tech

Year & Semester: III Year I Semester A.Y: 2021-22

Below are given some fields specially related to course and effectiveness. You may indicate the extent to which you took advantage of the various learning points of the course. We consider your response highly valuable. You may rate your response as follows on a four point scale. tick mark against your option

1-To a very little extent 2-To a slight extent 3- To a moderate extent 4- To a Great extent

Course Outcomes: At the end of course, the student will be able to	Response rating				Total Responses	Attainment of Cos		
	1	2	3	4		Attainment of Cos	% of Attainment	
18ME109 ENGINEERING ANALYSIS								
1. Solve non-linear equations using appropriate numerical methods like bisection method, Newton-Raphson method etc.	32	26	52	81	191	0.74	73.82	CO 1
2. Solve a system of linear and non-linear equations using iterative or direct techniques.	16	35	64	76	191	0.76	76.18	CO 2
3. Select and apply suitable methods for approximation of functions using techniques like interpolation, curve fitting etc.	15	31	75	70	191	0.76	76.18	CO 3
4. Evaluate numerical integration and differentiation using numerical methods.	14	31	54	92	191	0.79	79.32	CO 4
5. Solve initial and boundary value problems in ODEs using appropriate methods.	17	32	59	83	191	0.77	77.23	CO 5
18ME110 DESIGN OF MACHINE ELEMENTS								
1. Describe general design principles like design process, material selection, manufacturing considerations, combined	32	37	56	66	191	0.70	70.42	
2. Evaluate simple components under cyclic loading using the concepts of stress concentration, notch sensitivity,	23	37	64	67	191	0.73	72.91	
3. Design bolted joints subjected to direct loading and eccentric loading.	13	33	65	80	191	0.78	77.75	
4. Design welded joints subjected Torsion bending and axial loading.	18	30	75	68	191	0.75	75.26	
5. Design helical and leaf springs for various applications with considerations of stressdeflection relations and	21	46	51	73	191	0.73	73.04	
18ME111 MANUFACTURING TECHNOLOGY								
1. Evaluate the cutting forces, power and specific energy and tool life in machining	32	31	54	74	191	0.72	72.25	
2. Identify and select suitable machining operations for specific applications	13	27	62	89	191	0.80	79.71	
3. Identify and select suitable abrasive machining processes for surface finishing of components	11	36	62	82	191	1.55	155.47	
4. Select an advanced machining process based on the effect of various process parameters on the required	17	30	69	75	191	1.52	152.08	
5. Evaluate cutting speed to minimize production cost and maximize production rate and understand the recent	14	33	63	81	191	1.54	154.43	
18ME112 HEAT TRANSFER	37	24	48	82	191	0.73	72.91	
1. Estimate heat transfer rate due to conduction, convection and radiation under simple conditions using Fourier's La	16	29	62	84	191	0.78	78.01	
2. Calculate the temperature distribution and rate of heat transfer in one dimensional heat conduction problems	18	30	45	98	191	0.79	79.19	
3. Calculate temperature evolution in lumped and one-dimensional conduction systems using Newton's law of	15	36	45	95	191	0.79	78.80	
4. Calculate the heat transfer and temperature distribution in external and internal fluid flow problems using the	14	29	62	86	191	0.79	78.80	
5. Design an appropriate heat exchanger, like condenser, evaporator, radiator etc., for a given heat transfer	19	33	55	84	191	0.77	76.70	
18ENG202 CORPORATE COMMUNICATION LABORATORY						0.00	0.00	
1. Read articles from magazines and newspapers	22	38	61	70	191	0.73	73.43	
2. Participate effectively in informal conversations.	14	22	74	81	191	0.79	79.06	
3. Introduce themselves and their friends and express opinions in English	12	33	61	85	191	0.79	78.66	
4. Comprehend conversations and short talks delivered in English	16	27	71	77	191	0.77	77.36	
5. Write short essays of a general kind and personal letters and emails in English.	11	26	70	84	191	0.80	79.71	
18ME207 FLUID MECHANICS AND HYDRAULIC MACHINES LABORATORY						0.00	0.00	
1. Verify the Bernoulli's theorem for incompressible flows.	31	28	55	77	191	0.73	73.30	
2. Determine the co-efficient of discharge for a flow measuring devices like Venturimeter and Orificemeter.	13	25	65	88	191	0.80	79.84	
3. Determine the co-efficient of vanes like flat and curved vanes.	11	30	68	82	191	0.79	78.93	
4. Determine the performance and draw operating characteristic curves for Pelton wheel, Reciprocating pump and	13	27	71	80	191	0.79	78.53	
5. Determine the loss of head in pipe lines due to friction, sudden contraction, enlargement, bends and elbows.	11	22	69	89	191	0.81	80.89	
18ME208 MANUFACTURING TECHNOLOGY LABORATORY						0.00	0.00	
1. Handle different machine tools and perform different operations.	30	26	53	82	191	0.74	74.48	
2. Explain the field of application and working of various machines.	10	22	60	99	191	0.82	82.46	
3. Differentiate conventional machines with CNC machines.	13	30	71	77	191	0.78	77.75	
4. Fabricate various mechanical components by using different operations.	16	25	55	95	191	0.80	79.97	
5. Understand the importance of surface finishing and material removal rate.	11	30	62	88	191	0.80	79.71	
18CHE901 ENVIRONMENTAL SCIENCES						0.00	0.00	
1.To make the students aware about the environment and its inter-disciplinary nature and to emphasize the importance of the renewable energy sources	35	28	60	68	191	0.71	71.07	
2. To familiarize the concept of Ecosystem and their importance	14	33	65	79	191	0.77	77.36	
3. To bring the awareness among students about the importance of biodiversity and the need for its conservation	12	27	75	77	191	0.78	78.40	
4. To make the students understand the adverse effects of environmental pollution, its causes To make the students understand the adverse effects of environmental pollution, its causes	13	35	69	74	191	0.77	76.70	
5. To introduce the environmental ethics and emphasize the urgency of rain water harvesting along with water shed management	14	31	65	81	191	0.78	77.88	
18ME401 Production Planning and Control					0	0.00	0.00	
1.Describes the production facilities in the best possible manner along with the proper systematic planning	15	12	25	37	89	0.74	73.60	
2. Discuss the adequate arrangement of men, money, materials, machines tools, implements and equipment	5	13	31	40	89	0.80	79.78	
3.Articulates all the arrangements to remove possible obstacles in the way of smooth Production	4	12	28	45	89	0.82	82.02	
4.Discuss about the production targets to be achieved by keeping in view the sales forecast.	4	16	25	44	89	0.81	80.62	
18ME402 COMPUTATIONAL FLUID DYNAMICS								
1.To give the students necessary exposure to the CFD techniques such that they can solve basic fluid flow problems using CFD	9	5	7	7	28	0.61	60.71	
2. To understand mathematical characteristics of partial differential equations.	2	5	11	10	28	0.76	75.89	
3. To learn computational solution techniques for various types of partial differentialequations	4	3	13	8	28	0.72	72.32	
18ME405 FINITE ELEMENT METHODS					0	0.00	0.00	
1. To teach students the basic principles of finite element methods.	5	4	11	10	30	0.72	71.67	
2. To teach students the basic implementation method of finite element methods	2	3	11	14	30	0.81	80.83	
3. To teach students how to perform 1-D and 2-D structural analysis using finite element methods	2	5	9	14	30	0.79	79.17	
4. To teach students how to perform 1-D heat conduction analysis using finite element methods	3	3	10	14	30	0.79	79.17	
5.To teach students how to perform 1-D dynamic analysis using finite element methods	2	6	11	11	30	0.76	75.83	
18ME426 DESIGN THINKING AND PRODUCT INNOVATION						0.00	0.00	
1. Grasp the fundamental capabilities in the methods used for practicing Design Thinking	5	1	12	26	44	0.84	83.52	
2. Understand challenges and benefits of Design Thinking	1	0	12	31	44	0.91	91.48	
3. Communicate clearly about Design Thinking	2	2	15	25	44	0.86	85.80	
4. Innovate in multidisciplinary teams	1	4	11	28	44	0.88	87.50	
5. Have a process and mindset suited to innovation and creative problem-solving	1	4	10	29	44	0.88	88.07	

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	1	2	3	4		Attain	% of Attainment
18ME115 Engineering Metrology and Measurements							
1. Apply the knowledge for part design by providing fits and tolerance	11	83	14	73	181	0.71	70.58
2. Choose instruments to inspect engineering parts by various gauges like plug, ring gauge etc	4	80	72	25	181	0.66	66.30
3.Apply the instruments to measure flatness of components by contact and non-contact optical measuring instruments	1	93	21	66	181	0.71	70.99
4. Choose appropriate instruments to measure surface roughness and measure using comparators	6	85	16	74	181	0.72	71.82
5.Apply the knowledge to measure the profile gear, thread, angle.optimization of machining process parameters.	4	86	19	72	181	0.72	71.96
18ME116 Machine Learning for Mechanical Engineering							
1. Import various available datasets and determine the statistical parameters of the data	9	25	74	73	181	0.79	79.14
2. The students will also be able to clean and normalize the data and present the data using various visual techniques	7	14	83	77	181	0.82	81.77
e or more predictor variable(s) and one outcome variable. The students will also be able to apply Logistic regression to pr	9	20	80	72	181	0.80	79.70
4. Apply the KNN techniques for classification and classify new cases based on a similarity measure	6	12	78	85	181	0.83	83.43
5.Apply support vector machine algorithm for classification and regression problems	7	12	86	76	181	0.82	81.91
6. Understand different Machine Learning problems deeply enough to select the best performing algorithm and also	5	26	69	81	181	0.81	81.22
18ME211 THERMAL ENGINEERING LABORATORY							
1. Draw Valve/Port timing diagrams and estimate the various performance parameters for two stroke and four stroke IC	6	16	79	80	181	0.82	82.18
2. Estimate the energy losses due to heat lost to various engine components.	6	13	74	88	181	0.84	83.70
3. Conduct performance test on Air compressors	4	16	70	91	181	0.84	84.25
4. Describe various types of boilers used in steam power plants	5	11	82	83	181	0.84	83.56
5. Describe the basic systems of IC engines such as fuel supply system, ignition system, cooling system etc.	6	14	76	85	181	0.83	83.15
18ME212 CAE LABORATORY							
1. Basic Structural Analysis Problems.	11	18	64	88	181	0.82	81.63
2. Basic Thermal Analysis Problems	5	14	80	82	181	0.83	83.01
3. Basic Vibration Analysis Problems	2	16	79	84	181	0.84	83.84
4. Basic Buckling Analysis Problems	3	16	76	86	181	0.84	83.84
5. Basic Contact Analysis Problems	2	19	69	91	181	0.84	84.39
DE IV 18ME411 FUNDAMENTALS OF AUTOMOBILE ENGINEERING							
1. Grasp the basic engine terminologies	7	9	16	17	49	0.72	71.94
2. Describe SI and CI engine system application in automobiles.	1	5	24	19	49	0.81	81.12
3. Differentiate the fuel dynamics for SI and CI engines and define the key terms such as carburetion, injection, stoichiom	4	5	15	25	49	0.81	81.12
4. To design combustion chambers for SI /CI engines with reference to variable compression ratios	3	5	19	22	49	0.81	80.61
5. Analyze the combustion phenomenon within the combustion chamber and Determine the combustion behavior in SI	4	7	18	20	49	0.78	77.55
DE IV 18ME414 NON DESTRUCTIVE TESTING							
1. Know the different surface NDE techniques which enables to carry out various inspection	2	4	14	16	36	0.81	80.56
2. Perform inspection of samples and identify the defects using Theromgraphy and Eddy current testing	0	3	16	17	36	0.85	84.72
3. Understand basic knowledge of ultrasonic testing which enables them to perform inspection of samples	1	1	14	20	36	0.87	86.81
4. Differentiate various defect types and characterize them using radiography	0	1	15	20	36	0.88	88.19
5. Understand the recent developments in NDE and their application in various industries	0	2	13	21	36	0.88	88.19
DE IV 18ME415 Total Quality Management							
1. Understand the various principles and practices of TQM to achieve quality.	4	4	33	47	88	0.85	84.94
2. Identify the various statistical approaches for Total Quality Control.	2	7	33	46	88	0.85	84.94
3. Demonstrate the TQM tools for continuous process improvement.	2	2	34	50	88	0.88	87.50
4. Adopt the importance of ISO and Quality systems.	2	6	35	45	88	0.85	84.94
5. Make use of the concepts of TQM to solve case studies	3	6	31	48	88	0.85	85.23
DE V 18ME416 Mechanical Vibrations							
1. Perform free-vibration analysis of one degree of freedom systems.	6	5	11	9	31	0.69	68.55
2. Perform free-vibration analysis of two degree of freedom systems.	2	5	12	12	31	0.77	77.42
3. Perform free-vibration analysis of three degree of freedom systems.	2	5	12	12	31	0.77	77.42
4. Perform forced-vibration analysis of one and two degree of freedom systems	2	5	12	12	31	0.77	77.42
5. Design simple mechanical systems for vibrations and vibration measuring instruments.	3	3	14	11	31	0.77	76.61
	3	4	12	12	31	0.77	76.61
DE V 18ME418 Design and Manufacture of Composites							
1. Classify the various matrix material and reinforcements for polymer matrix composites, MMC and ceramic matrix	6	4	35	51	96	0.84	84.11
2. Developing the knowledge on processing, interfacial properties, and application of composites.	3	4	39	50	96	0.85	85.42
3. To get the thorough knowledge on manufacturing of polymer matrix composites.	3	7	35	51	96	0.85	84.90
4. Understanding the fabrication process of metal matrix composites.	2	8	36	50	96	0.85	84.90
5. Summarizing the various fabrication process of ceramic matrix composites.	2	7	34	53	96	0.86	85.94
DE V 18ME420 Operations Research							
1. Understand the concept of O.R and application for optimization using L.P model.	0	5	11	32	48	0.89	89.06
2. Apply different methods to solve transporting of materials at lowest cost and validate the methods.	0	3	13	32	48	0.90	90.10
3. Solve the problems connected with sequencing and scheduling of number of jobs.	0	1	18	29	48	0.90	89.58
4. Understand and solve problem to reduce waiting time at various stations	0	0	16	32	48	0.92	91.67
5. Apply knowledge in project management to reduce the project time by employing PERT and CPM techniques.	0	2	14	32	48	0.91	90.63

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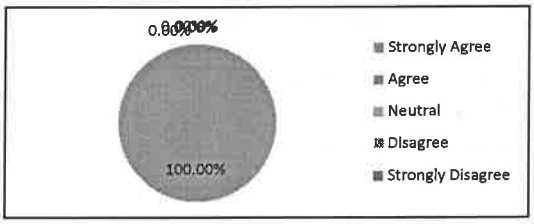
DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Feedback on Curriculum, Teaching & Learning from for A.Y. 2021-22

Total N.o of Responses:	16

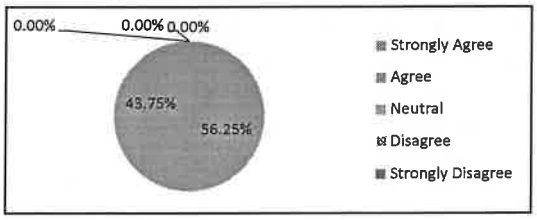
1 The curriculum has been updated from time to time.

	Count	Percentage
Strongly Agree	16	100.00%
Agree	0	0.00%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



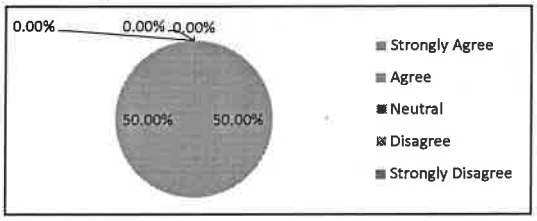
2 The system followed by the college for the design and development of curriculum is effective.

	Count	Percentage
Strongly Agree	9	56.25%
Agree	7	43.75%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



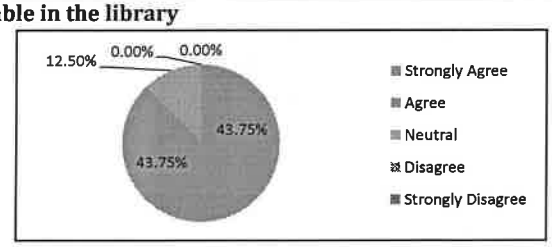
3 Employability Skills are given weightage in curriculum design and development.

	Count	Percentage
Strongly Agree	8	50.00%
Agree	8	50.00%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



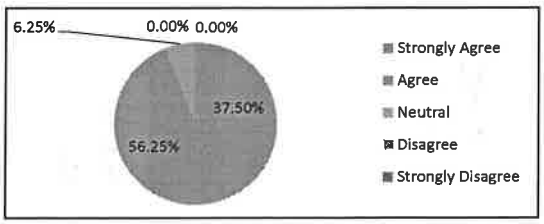
4 Sufficient number of prescribed books are available in the library

	Count	Percentage
Strongly Agree	7	43.75%
Agree	7	43.75%
Neutral	2	12.50%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



5 I have freedom to adopt modern ICT Tools & Techniques for effective course delivery

	Count	Percentage
Strongly Agree	6	37.50%
Agree	9	56.25%
Neutral	1	6.25%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



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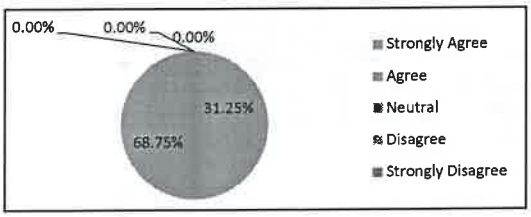
DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Feedback on Curriculum, Teaching & Learning from for A.Y. 2021-22

Total N.o of Responses:	16

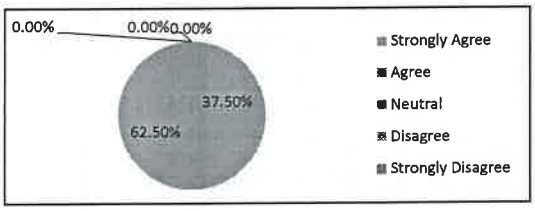
6 The books prescribed/listed as reference materials are relevant, updated and appropriate

	Count	Percentage
Strongly Agree	5	31.25%
Agree	11	68.75%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



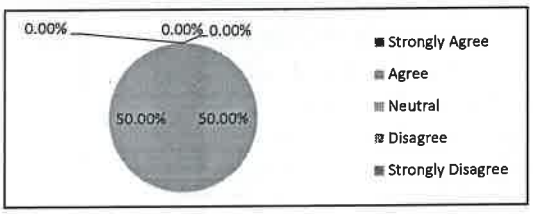
7 Board of studies is actively involving to ensure the relevance of the programme offered in the department.

	Count	Percentage
Strongly Agree	6	37.50%
Agree	10	62.50%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



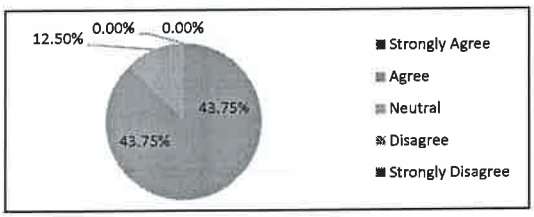
8 Representation from industry in Boards of studies is helpful in designing and improving the syllabi based on latest technological evolution

	Count	Percentage
Strongly Agree	8	50.00%
Agree	8	50.00%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



9 I am given enough freedom to contribute my ideas on curriculum design and development.

	Count	Percentage
Strongly Agree	7	43.75%
Agree	7	43.75%
Neutral	2	12.50%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



Signature of the Co-Ordinator

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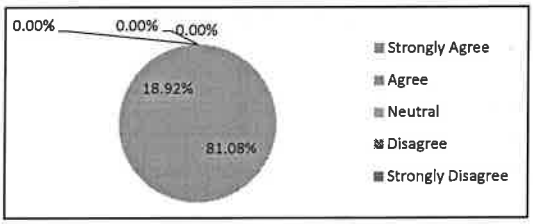
DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Feedback on Teaching, Learning, Evaluation & Research for A.Y. 2021-22

Total N.o of Responses:	37

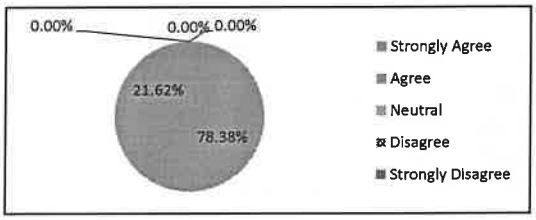
1 The College is able to attract meritorious students

	Count	Percentage
Strongly Agree	30	81.08%
Agree	7	18.92%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



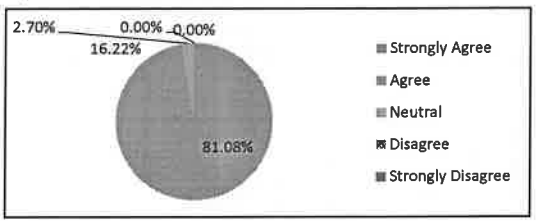
2 Student-centered learning resources are available in the college

	Count	Percentage
Strongly Agree	29	78.38%
Agree	8	21.62%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



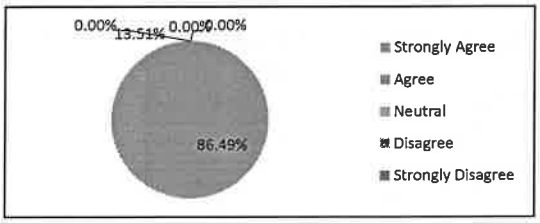
3 The Central Library and Department Library are major sources of information

	Count	Percentage
Strongly Agree	30	81.08%
Agree	6	16.22%
Neutral	1	2.70%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



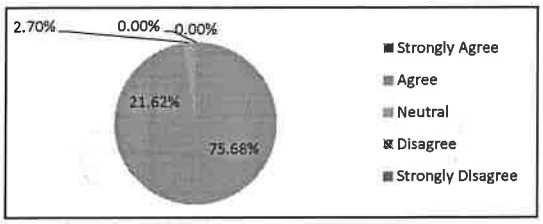
4 The timings of the Library are convenient

	Count	Percentage
Strongly Agree	32	86.49%
Agree	5	13.51%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



5 The procedure followed for acquiring new books, journals, and periodicals is appreciable

	Count	Percentage
Strongly Agree	28	75.68%
Agree	8	21.62%
Neutral	1	2.70%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



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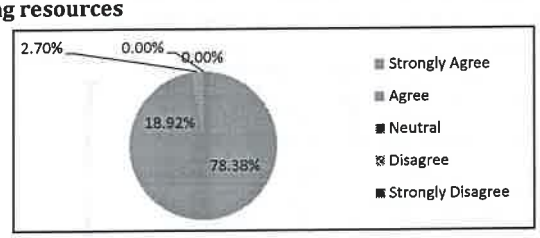
DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Feedback on Teaching, Learning, Evaluation & Research for A.Y. 2021-22

Total N.o of Responses:	37

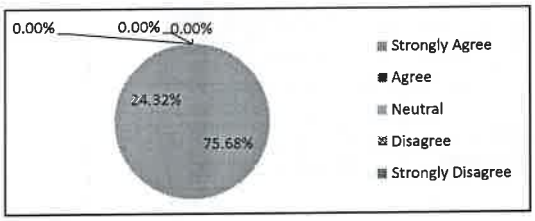
6 The faculty are supported with adequate learning resources

	Count	Percentage
Strongly Agree	29	78.38%
Agree	7	18.92%
Neutral	1	2.70%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



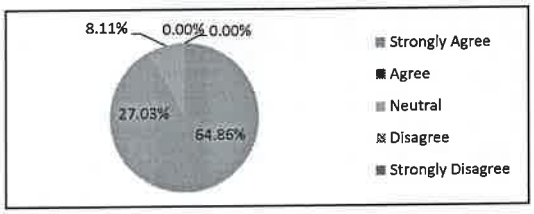
7 The faculty are encouraged to organize and participate in seminars, conferences, workshops, and Faculty Development Programmes

	Count	Percentage
Strongly Agree	28	75.68%
Agree	9	24.32%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



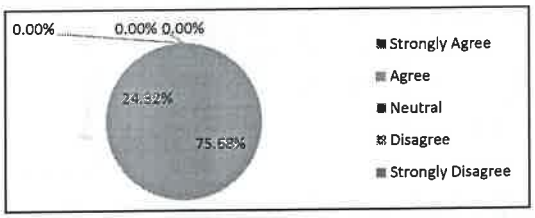
8 The evaluation system followed by the college is effective

	Count	Percentage
Strongly Agree	24	64.86%
Agree	10	27.03%
Neutral	3	8.11%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



9 The incentive scheme offered for publications, funded projects, consultancy, and patents is appreciable

	Count	Percentage
Strongly Agree	28	75.68%
Agree	9	24.32%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



Signature of the Co-Ordinator

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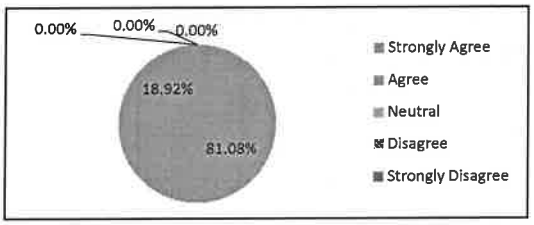
Faculty Feedback on INFRASTRUCTURE for A. Y. 2021-22

Total N.o of Responses:	37

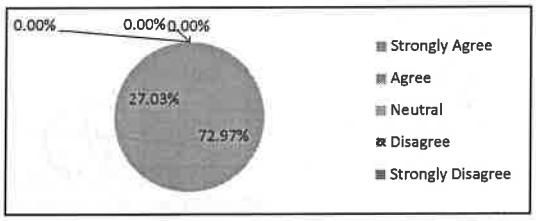
1 The classrooms and furniture available are adequate

	Count	Percentage
Strongly Agree	30	81.08%
Agree	7	18.92%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



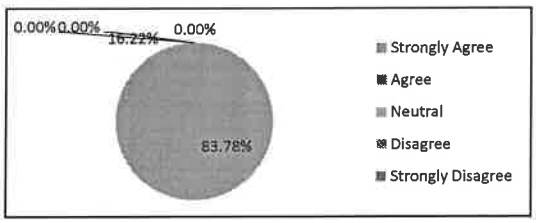
2 The buildings and furniture are well maintained

	Count	Percentage
Strongly Agree	27	72.97%
Agree	10	27.03%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



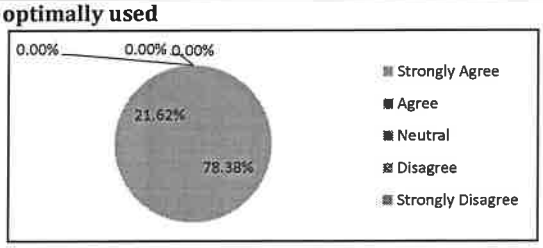
3 The labs are adequately equipped (wherever applicable)

	Count	Percentage
Strongly Agree	31	83.78%
Agree	6	16.22%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



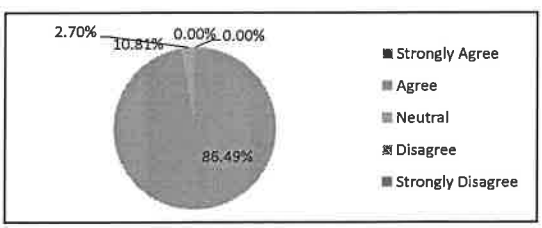
4 The infrastructure available in the department is optimally used

	Count	Percentage
Strongly Agree	29	78.38%
Agree	8	21.62%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



5 Safe drinking water is available

	Count	Percentage
Strongly Agree	32	86.49%
Agree	4	10.81%
Neutral	1	2.70%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



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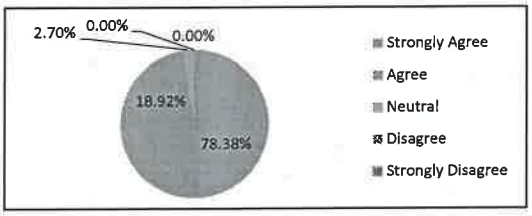
Faculty Feedback on INFRASTRUCTURE for A. Y. 2021-22

Total N.o of Responses:	37

6 Sports and games facilities are adequate

	Count	Percentage
Strongly Agree	29	78.38%
Agree	7	18.92%
Neutral	1	2.70%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



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Technology & Science
MADANAPALLE

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)
Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH,CST), MBA & MCA

IQAC
MITS Internal Quality Assurance Cell

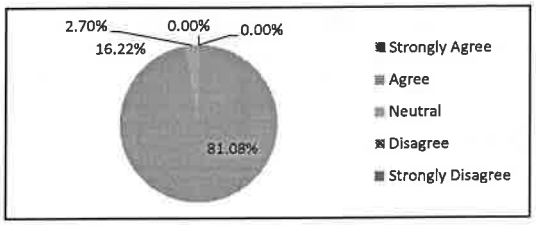
DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Feedback on GOVERNANCE for A.Y. 2021-22

Total N.o of Responses: 37

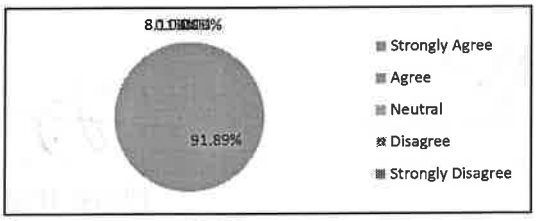
1 The MoUs entered by the college enhance the scope for mutual cooperation with Institutions and Research Organizations of repute.

	Count	Percentage
Strongly Agree	30	81.08%
Agree	6	16.22%
Neutral	1	2.70%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



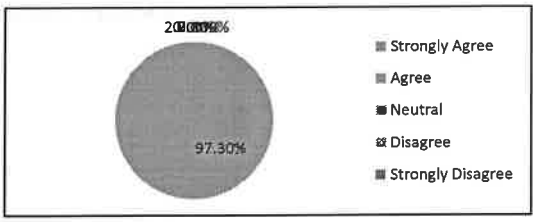
2 The administration is sincerely putting efforts for the development of the institution.

	Count	Percentage
Strongly Agree	34	91.89%
Agree	3	8.11%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



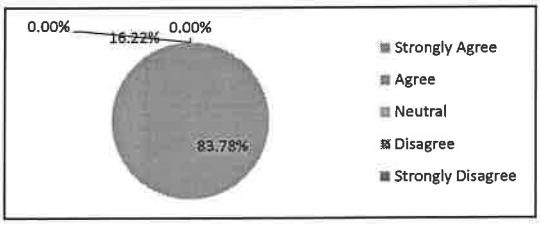
3 The quality initiatives taken up during the last academic year are contributing to improvement

	Count	Percentage
Strongly Agree	36	97.30%
Agree	1	2.70%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



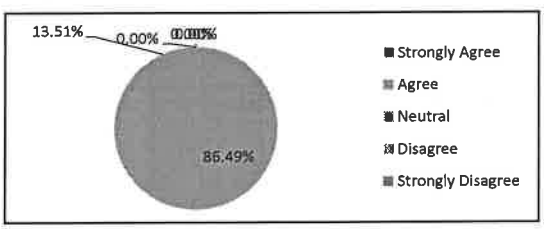
4 The IQAC is working well for promoting quality in the institution

	Count	Percentage
Strongly Agree	31	83.78%
Agree	6	16.22%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



5 The faculties are given the freedom to express their opinions

	Count	Percentage
Strongly Agree	32	86.49%
Agree	5	13.51%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



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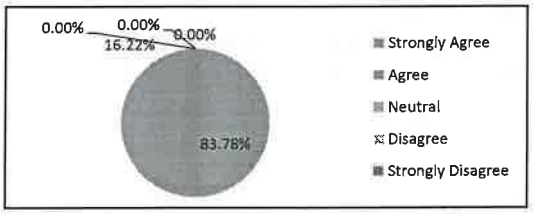
DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Feedback on GOVERNANCE for A.Y. 2021-22

Total N.o of Responses:	**37**

6 The administrative team is accessible

	Count	Percentage
Strongly Agree	31	83.78%
Agree	6	16.22%
Neutral	0	0.00%
Disagree	0	0.00%
Strongly Disagree	0	0.00%



Signature of the Co-ordinator

HOD / ME

PRINCIPAL
Madanapalle Institute of
Technology & Science
MADANAPALLE

Head of the Department
Mechanical Engineering
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

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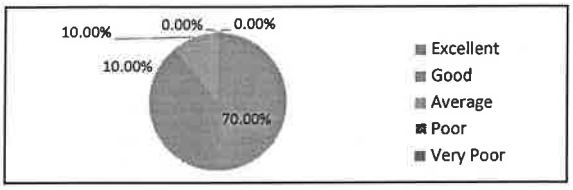
DEPARTMENT OF MECHANICAL ENGINEERING

Employer / Supervisor Survey for A.Y. 2021 - 22

Total N.o of Responses:	10

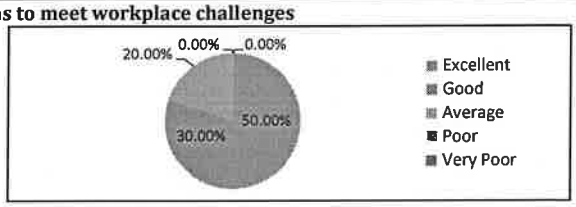
1 Level of understanding of the Engineering principles and application of the same in design/analysis / problem

Syllabus	Count	Percentage
Excellent	7	70.00%
Good	1	10.00%
Average	1	10.00%
Poor	0	0.00%
Very Poor	0	0.00%



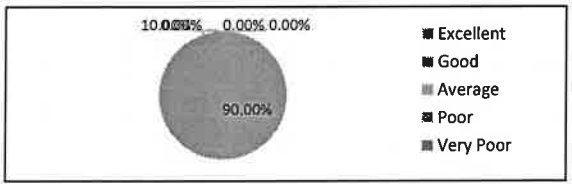
2 Willingness to learn new technology and adopt new ideas to meet workplace challenges

	Count	Percentage
Excellent	5	50.00%
Good	3	30.00%
Average	2	20.00%
Poor	0	0.00%
Very Poor	0	0.00%



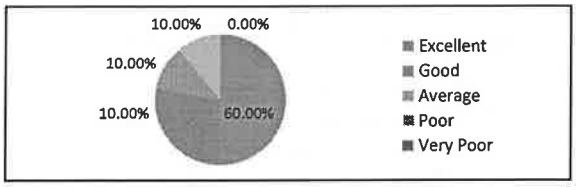
3 Ability to work with a team

	Count	Percentage
Excellent	9	90.00%
Good	1	10.00%
Average	0	0.00%
Poor	0	0.00%
Very Poor	0	0.00%



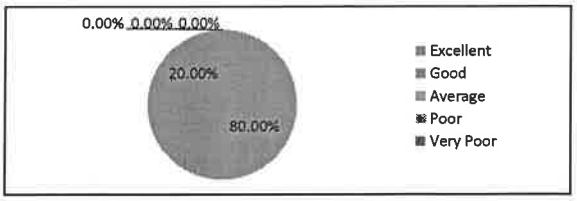
4 Verbal & Written communication skills

	Count	Percentage
Excellent	6	60.00%
Good	1	10.00%
Average	1	10.00%
Poor	1	10.00%
Very Poor	0	0.00%



5 Ability to take independent decisions

	Count	Percentage
Excellent	8	80.00%
Good	2	20.00%
Average	0	0.00%
Poor	0	0.00%
Very Poor	0	0.00%



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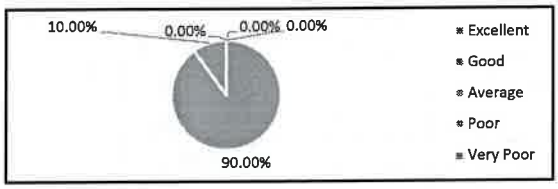
DEPARTMENT OF MECHANICAL ENGINEERING

Employer / Supervisor Survey for A.Y. 2021 - 22

Total N.o of Responses:	10

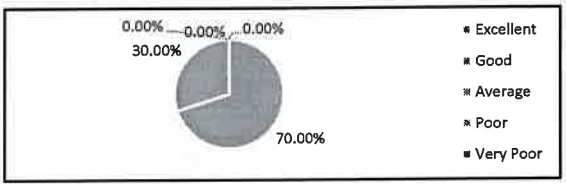
6 Inclination towards needs of the society

	Count	Percentage
Excellent	9	90.00%
Good	1	10.00%
Average	0	0.00%
Poor	0	0.00%
Very Poor	0	0.00%



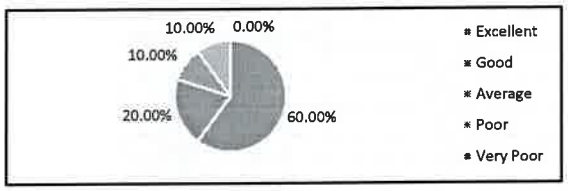
7 Your overall satisfaction with the performance of our graduates

	Count	Percentage
Excellent	7	70.00%
Good	3	30.00%
Average	0	0.00%
Poor	0	0.00%
Very Poor	0	0.00%



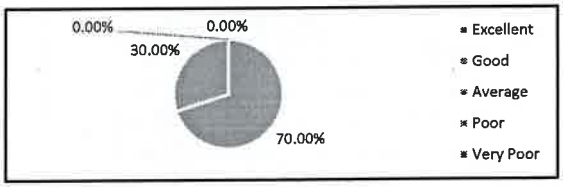
8 Respect for Human Values & Ethics

	Count	Percentage
Excellent	6	60.00%
Good	2	20.00%
Average	1	10.00%
Poor	1	10.00%
Very Poor	0	0.00%



9 Leadership/Managerial Skills

	Count	Percentage
Excellent	7	70.00%
Good	3	30.00%
Average	0	0.00%
Poor	0	0.00%
Very Poor	0	0.00%



10 Provide Obervations / Suggestions to Improve

Signature of Co-Ordinator

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Madanapalle Institute of
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MADANAPALLE

HOD/ME
Head of the Department
Mechanical Engineering
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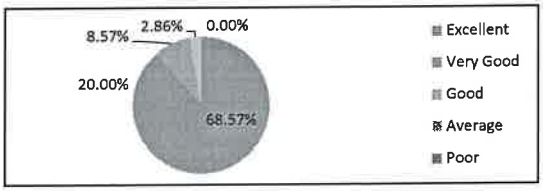
DEPARTMENT OF MECHANICAL ENGINEERING

Parents Feedback on Curriculum, Teaching & Learning for A.Y. 2021-22

Total N.o of Responses:	35

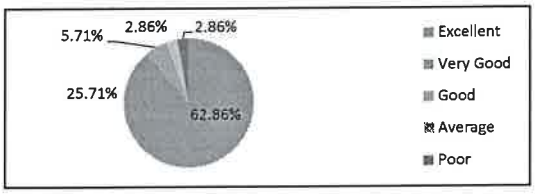
1 Rate the events participated by your ward such as Guest Lectures/ Workshops/Seminars/Webinars to enrich the Curriculum

	Count	Percentage
Excellent	24	68.57%
Very Good	7	20.00%
Good	3	8.57%
Average	1	2.86%
Poor	0	0.00%



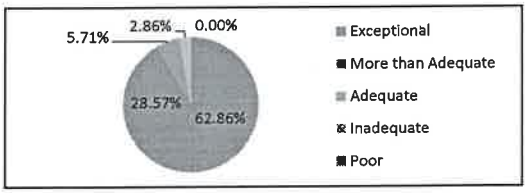
2 Rate the Internship undergone by your ward to fill the gap in the curriculum.

	Count	Percentage
Excellent	22	62.86%
Very Good	9	25.71%
Good	2	5.71%
Average	1	2.86%
Poor	1	2.86%



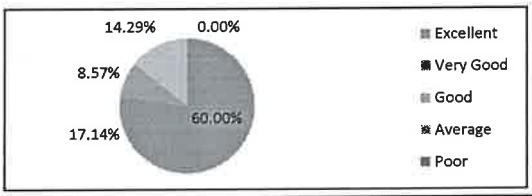
3 Rate the Industrial visits undergone by your ward to enrich the curriculum.

	Count	Percentage
Exceptional	22	62.86%
More than Adequate	10	28.57%
Adequate	2	5.71%
Inadequate	1	2.86%
Poor	0	0.00%



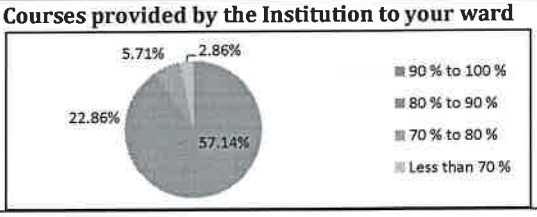
4 Rate the MOUs linked with Industry

	Count	Percentage
Excellent	21	60.00%
Very Good	6	17.14%
Good	3	8.57%
Average	5	14.29%
Poor	0	0.00%



5 Rate the Additional courses / Training / Certificate Courses provided by the Institution to your ward

	Count	Percentage
90 % to 100 %	20	57.14%
80 % to 90 %	8	22.86%
70 % to 80 %	2	5.71%
Less than 70 %	1	2.86%



6. Provide Observations / Suggestions to improve:

Signature of the Co-Ordinator

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Head of the Department
Mechanical Engineering
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