



Department of Automobile

Engineering Academic Year: 2022-23

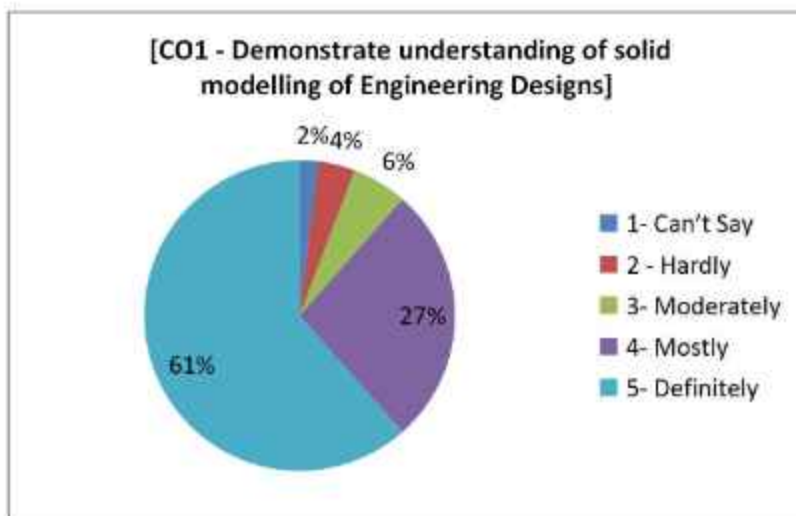
**Course Exit Analysis Report (Sem IV)**

**Subject: CAD-CAM (AEC404)**

Subject In-charge: Prof.NiteshSaindane

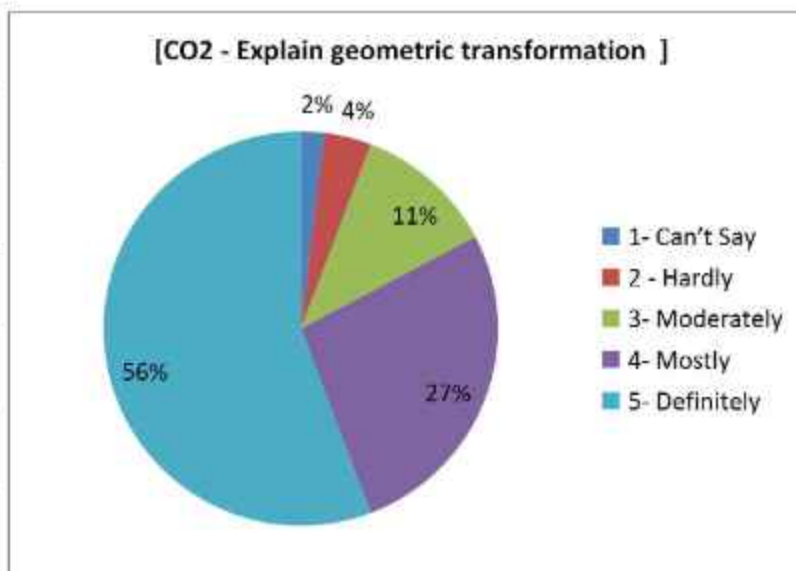
[CO1 - Demonstrate understanding of solid modelling of Engineering Designs]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	3	5.769230769
4- Mostly	14	26.92307692
5- Definitely	32	61.53846154
Total	52	100



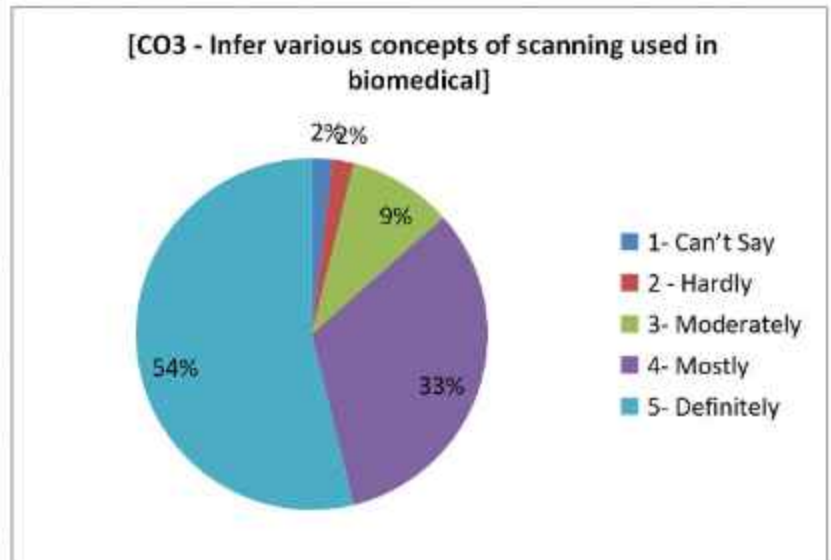
[CO2 - Explain geometric transformation ]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	6	11.53846154
4- Mostly	14	26.92307692
5- Definitely	29	55.76923077
Total	52	100



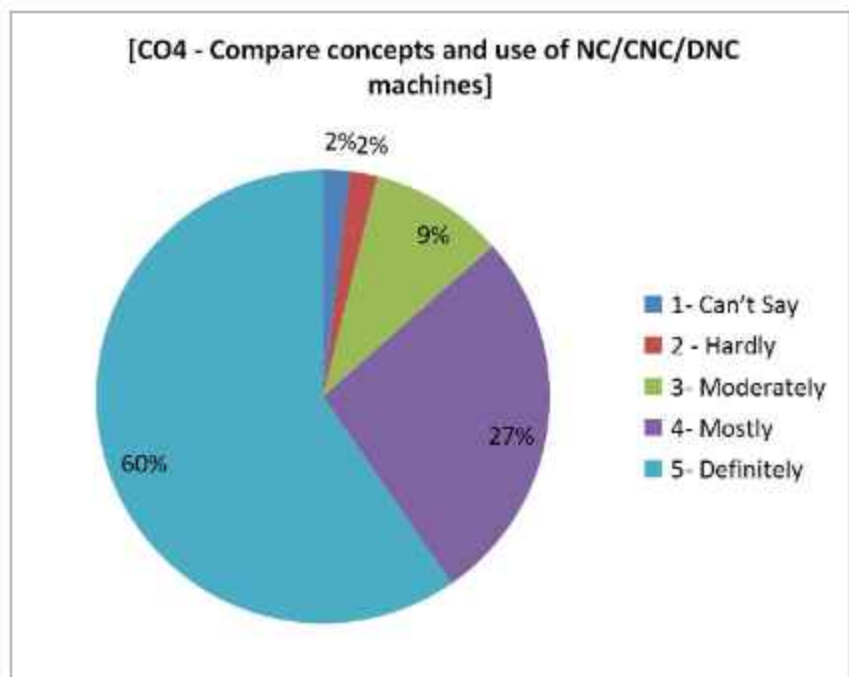
[CO3 - Infer various concepts of scanning used in biomedical]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	5	9.615384615
4- Mostly	17	32.69230769
5- Definitely	28	53.84615385
Total	52	100



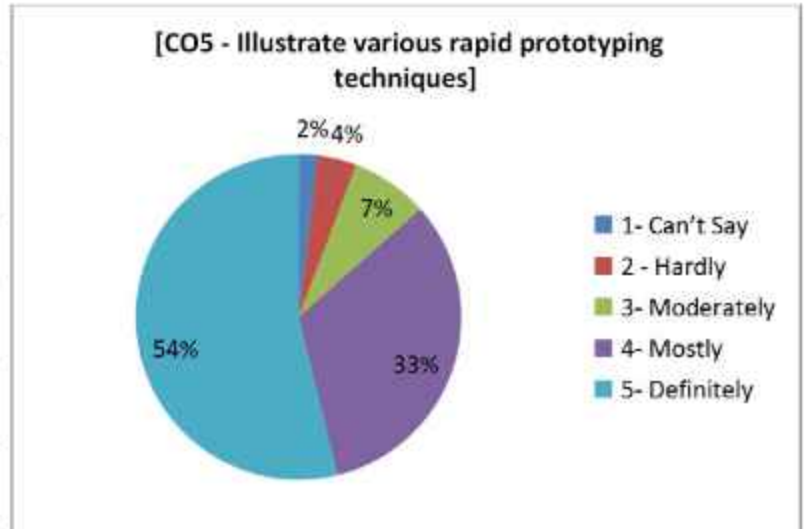
[CO4 - Compare concepts and use of NC/CNC/DNC machines]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	5	9.615384615
4- Mostly	14	26.92307692
5- Definitely	31	59.61538462
Total	52	100



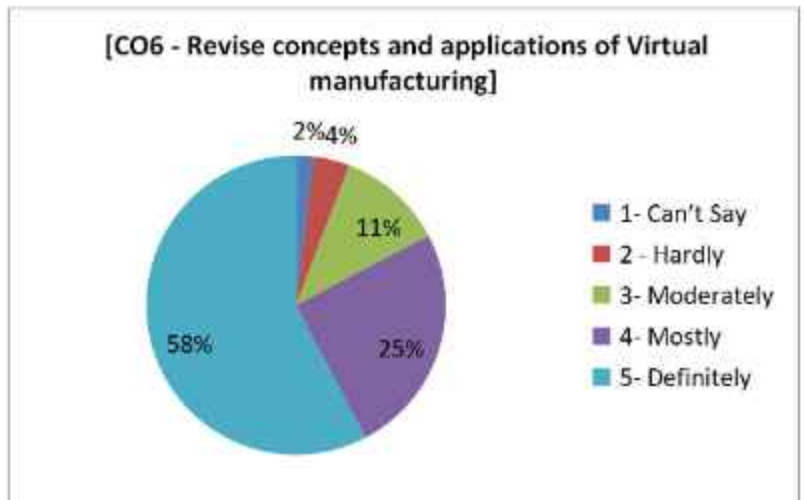
[CO5 - Illustrate various rapid prototyping techniques]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	4	7.692307692
4- Mostly	17	32.69230769
5- Definitely	28	53.84615385
Total	52	100



[CO6 - Revise concepts and applications of Virtual manufacturing]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	6	11.53846154
4- Mostly	13	25
5- Definitely	30	57.69230769
Total	52	100



  
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 Kharghar, Navi Mumbai - 410 210.

  
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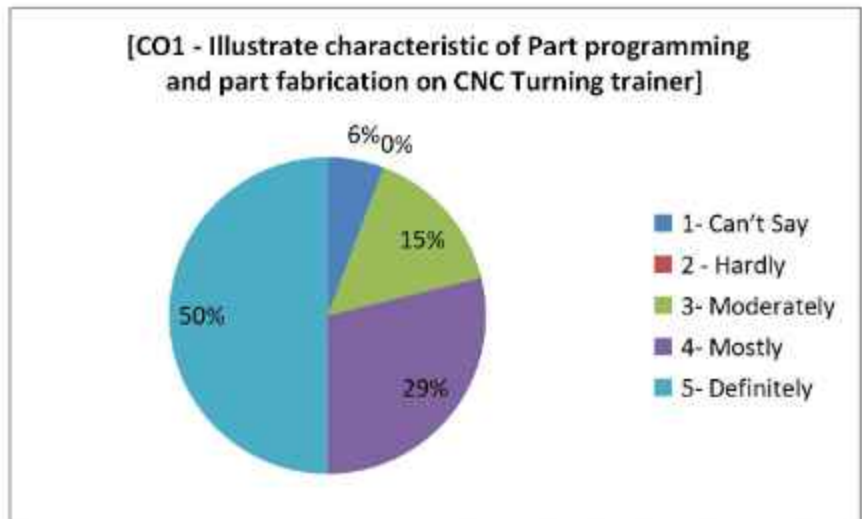
**Course Exit Analysis Report (Sem IV)**

**Subject: CNC & 3D Printing (AESBL401)**

Subject In-charge: Prof. Namrata Bhokare

[CO1 - Illustrate characteristic of Part programming and part fabrication on CNC Turning trainer]

Score	No. of Students	Percentage
1- Can't Say	3	5.769230769
2 - Hardly	0	0
3- Moderately	8	15.38461538
4- Mostly	15	28.84615385
5- Definitely	26	50
<b>Total</b>	<b>52</b>	<b>100</b>



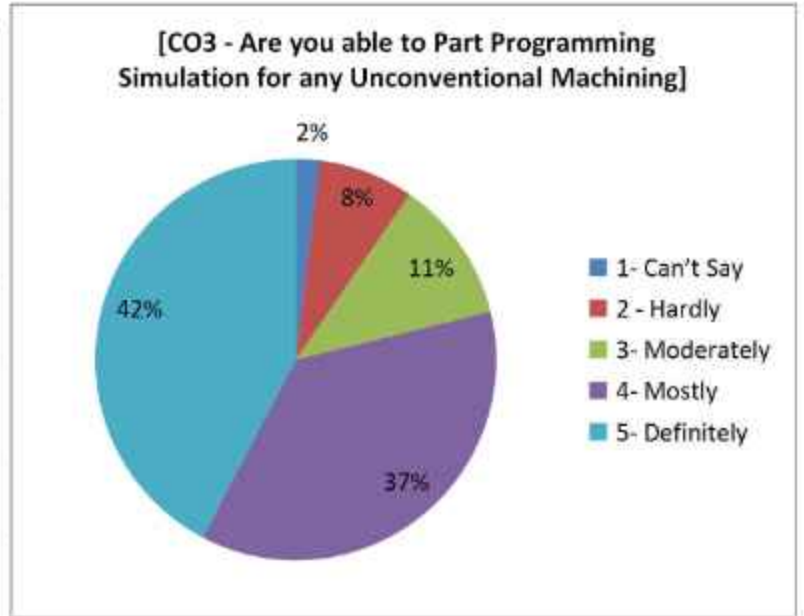
[CO2 - Are you able to explain Part programming and part fabrication on CNC Milling trainer]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	7	13.46153846
4- Mostly	17	32.69230769
5- Definitely	25	48.07692308
<b>Total</b>	<b>52</b>	<b>100</b>



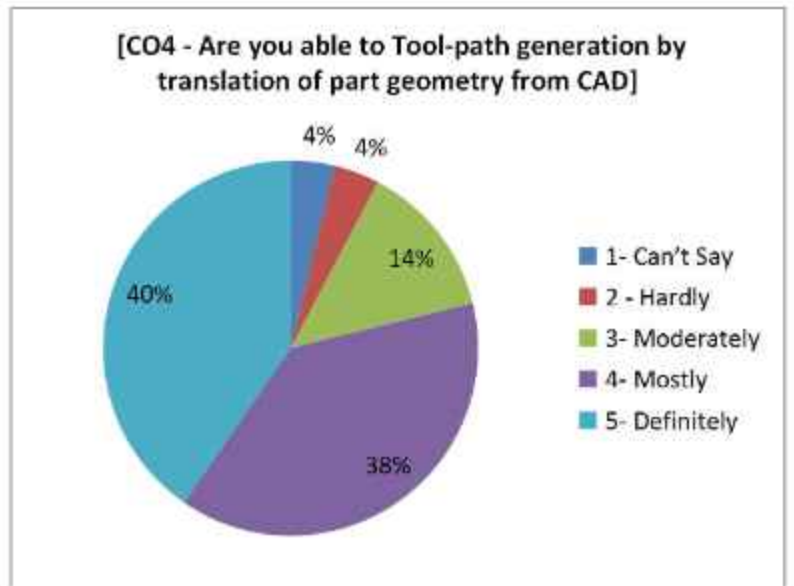
[CO3 - Are you able to Part Programming Simulation for any Unconventional Machining]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	4	7.692307692
3- Moderately	6	11.53846154
4- Mostly	19	36.53846154
5- Definitely	22	42.30769231
Total	52	100



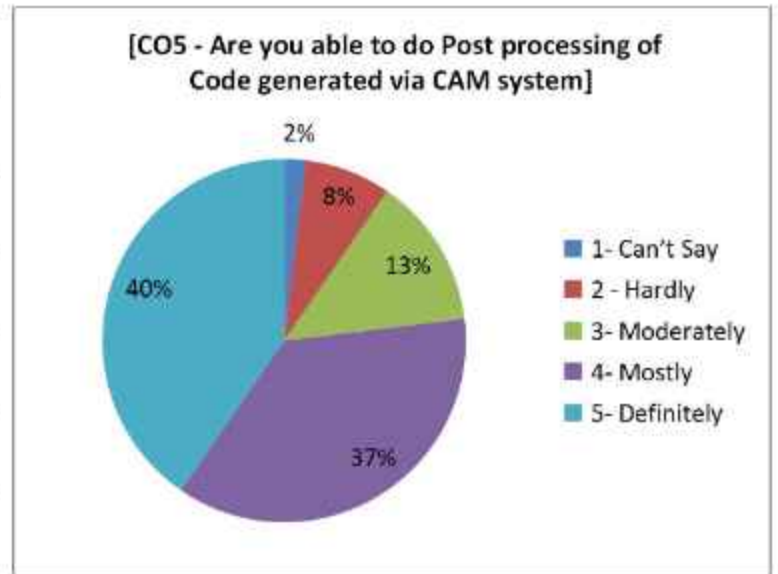
[CO4 - Are you able to Tool-path generation by translation of part geometry from CAD]

Score	No. of Students	Percentage
1- Can't Say	2	3.846153846
2 - Hardly	2	3.846153846
3- Moderately	7	13.46153846
4- Mostly	20	38.46153846
5- Definitely	21	40.38461538
Total	52	100



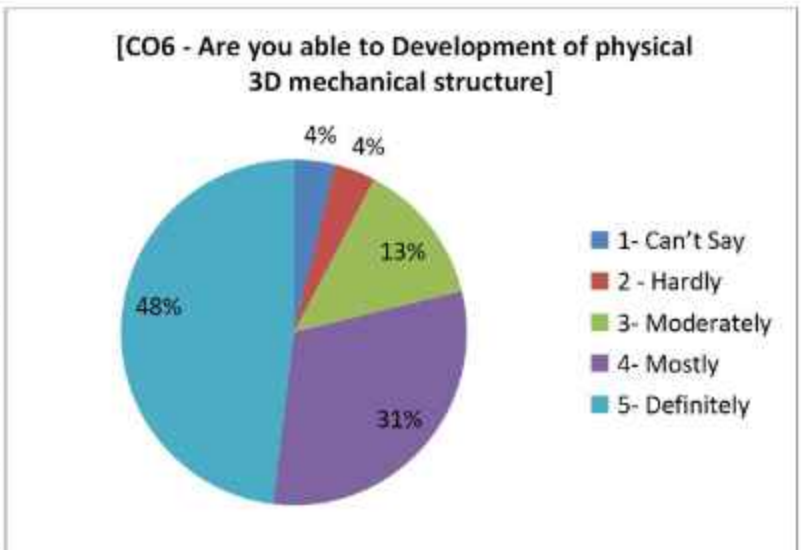
[CO5 - Are you able to do Post processing of Code generated via CAM system]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	4	7.692307692
3- Moderately	7	13.46153846
4- Mostly	19	36.53846154
5- Definitely	21	40.38461538
Total	52	100



[CO6 - Are you able to Development of physical 3D mechanical structure]

Score	No. of Students	Percentage
1- Can't Say	2	3.846153846
2 - Hardly	2	3.846153846
3- Moderately	7	13.46153846
4- Mostly	16	30.76923077
5- Definitely	25	48.07692308
Total	52	100



  
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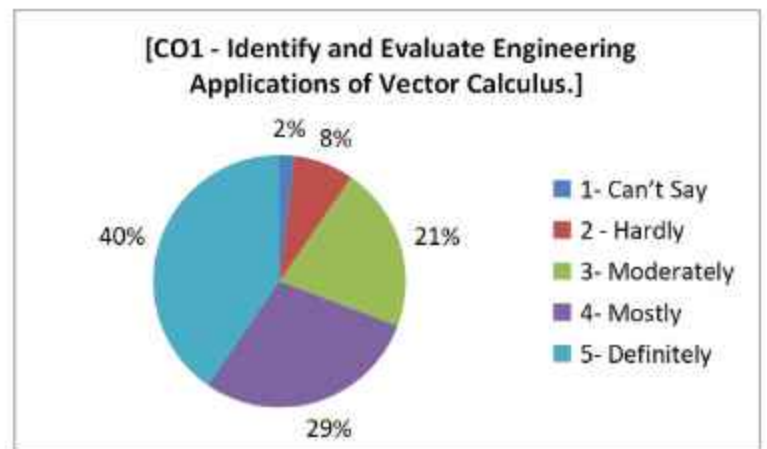
**Course Exit Analysis Report (Sem IV)**

**Subject: Engineering mathematics (AEC401)**

Subject In-charge: Prof. Ganesh Rodge

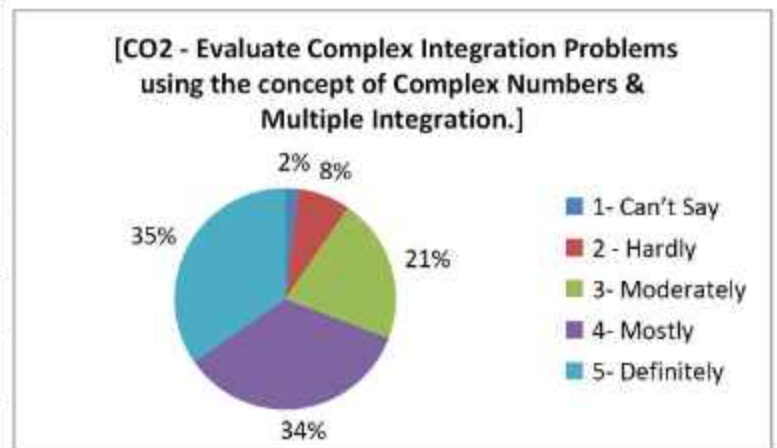
[CO1 - Identify and Evaluate Engineering Applications of Vector Calculus.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	4	7.692307692
3- Moderately	11	21.15384615
4- Mostly	15	28.84615385
5- Definitely	21	40.38461538
<b>Total</b>	<b>52</b>	<b>100</b>



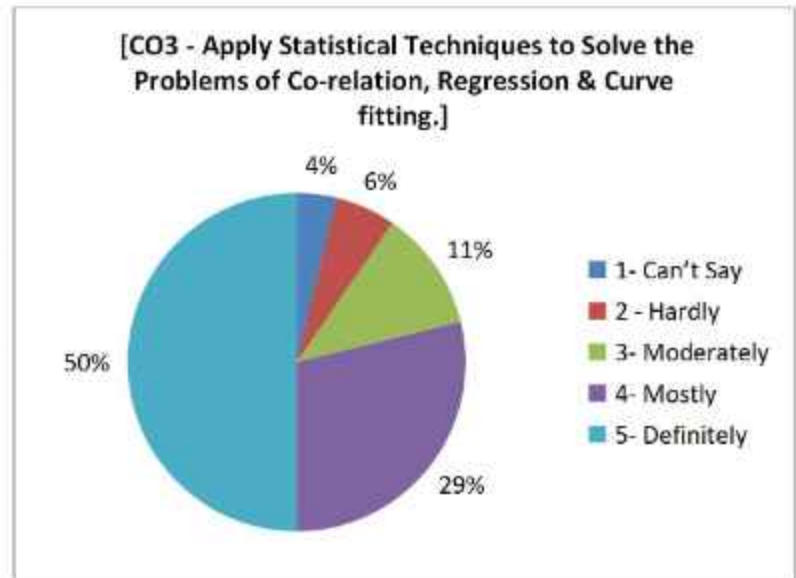
[CO2 - Evaluate Complex Integration Problems using the concept of Complex Numbers & Multiple Integration.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	4	7.692307692
3- Moderately	11	21.15384615
4- Mostly	18	34.61538462
5- Definitely	18	34.61538462
<b>Total</b>	<b>52</b>	<b>100</b>



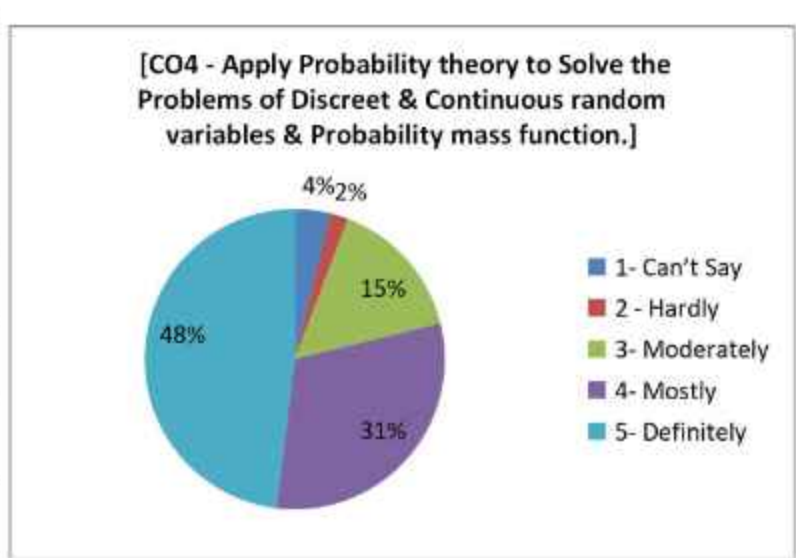
[CO3 - Apply Statistical Techniques to Solve the Problems of Co-relation, Regression & Curve fitting.]

Score	No. of Students	Percentage
1- Can't Say	2	3.846153846
2 - Hardly	3	5.769230769
3- Moderately	6	11.53846154
4- Mostly	15	28.84615385
5- Definitely	26	50
Total	52	100



[CO4 - Apply Probability theory to Solve the Problems of Discreet & Continuous random variables & Probability mass function.]

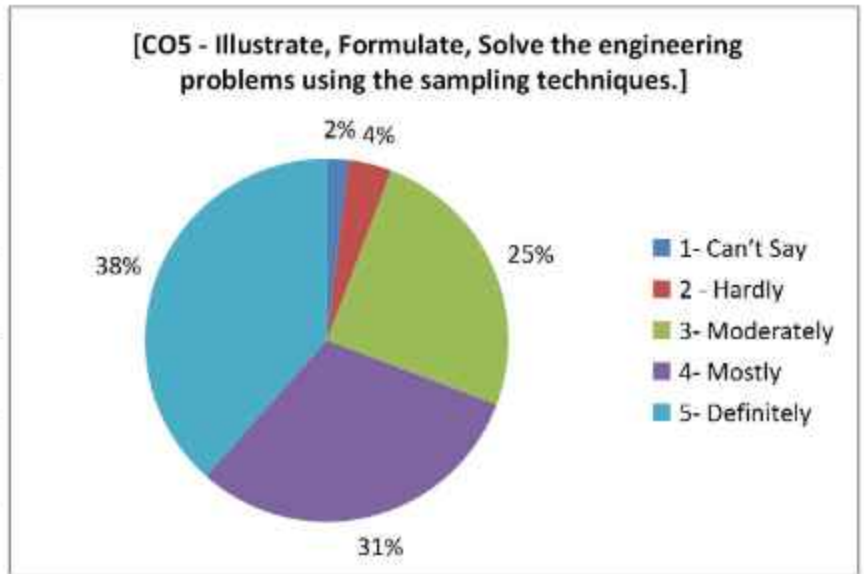
Score	No. of Students	Percentage
1- Can't Say	2	3.846153846
2 - Hardly	1	1.923076923
3- Moderately	8	15.38461538
4- Mostly	16	30.76923077
5- Definitely	25	48.07692308
Total	52	100





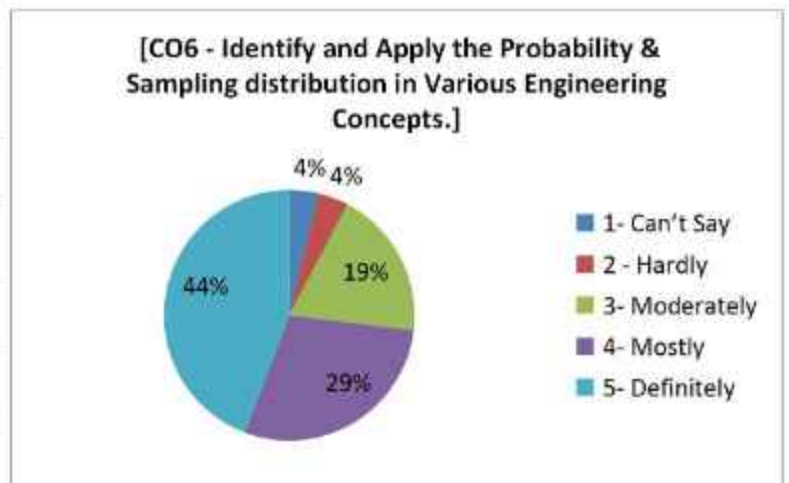
[CO5 - Illustrate, Formulate, Solve the engineering problems using the sampling techniques.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	13	25
4- Mostly	16	30.76923077
5- Definitely	20	38.46153846
Total	52	100



[CO6 - Identify and Apply the Probability & Sampling distribution in Various Engineering Concepts.]

Score	No. of Students	Percentage
1- Can't Say	2	3.846153846
2 - Hardly	2	3.846153846
3- Moderately	10	19.23076923
4- Mostly	15	28.84615385
5- Definitely	23	44.23076923
Total	52	100



  
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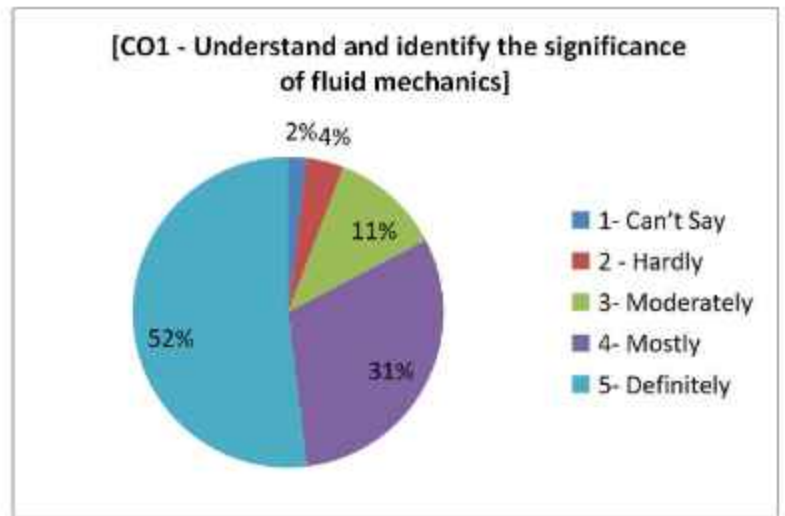
**Course Exit Analysis Report (Sem IV)**

**Subject: Fluid Mechanics (AEC402)**

Subject In-charge: Prof. Nidhi Singh

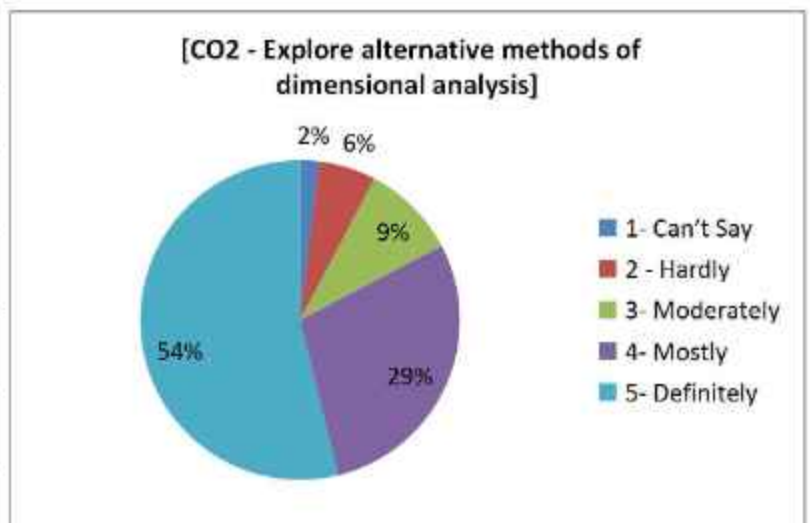
[CO1 - Understand and identify the significance of fluid mechanics]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	6	11.53846154
4- Mostly	16	30.76923077
5- Definitely	27	51.92307692
Total	52	100



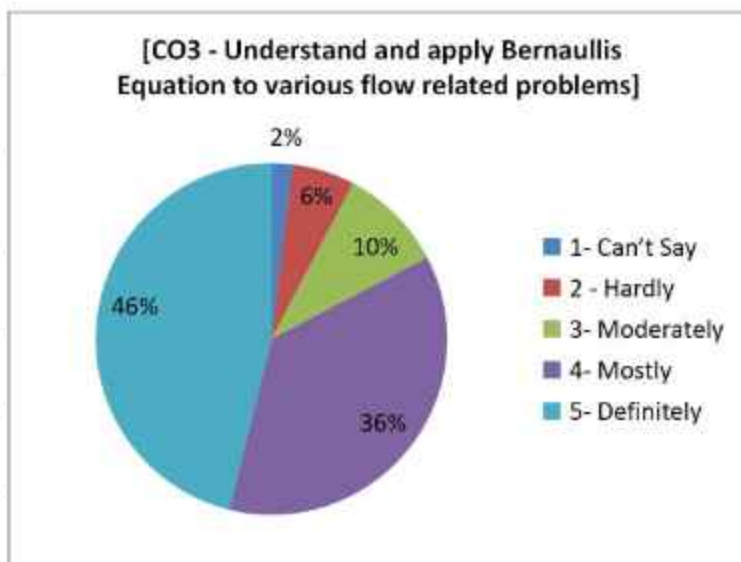
[CO2 - Explore alternative methods of dimensional analysis]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	3	5.769230769
3- Moderately	5	9.615384615
4- Mostly	15	28.84615385
5- Definitely	28	53.84615385
Total	52	100



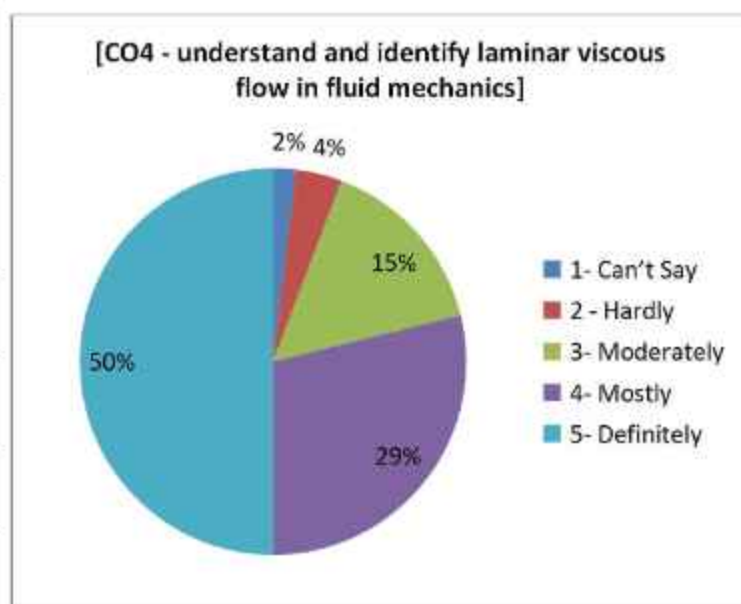
[CO3 - Understand and apply Bernoulli's Equation to various flow related problems]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	3	5.769230769
3- Moderately	5	9.615384615
4- Mostly	19	36.53846154
5- Definitely	24	46.15384615
Total	52	100



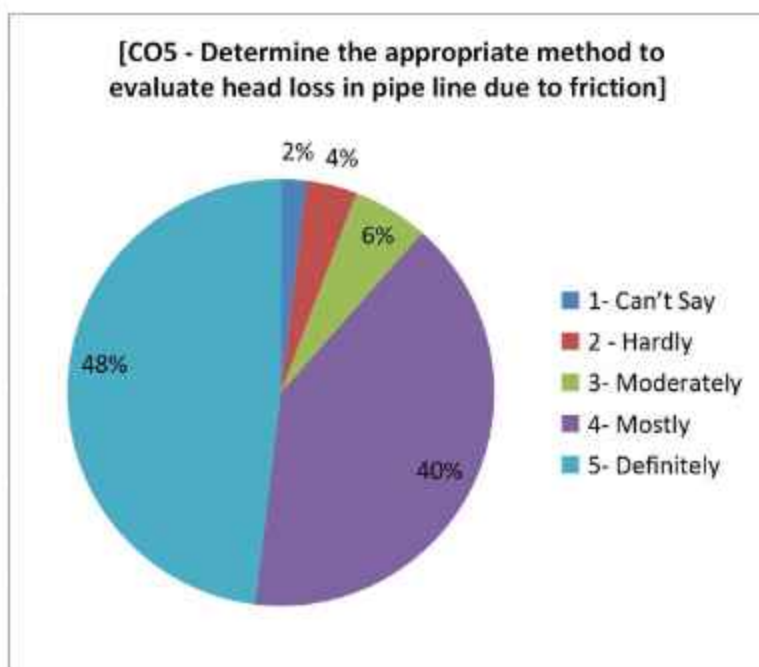
[CO4 - understand and identify laminar viscous flow in fluid mechanics]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	8	15.38461538
4- Mostly	15	28.84615385
5- Definitely	26	50
Total	52	100



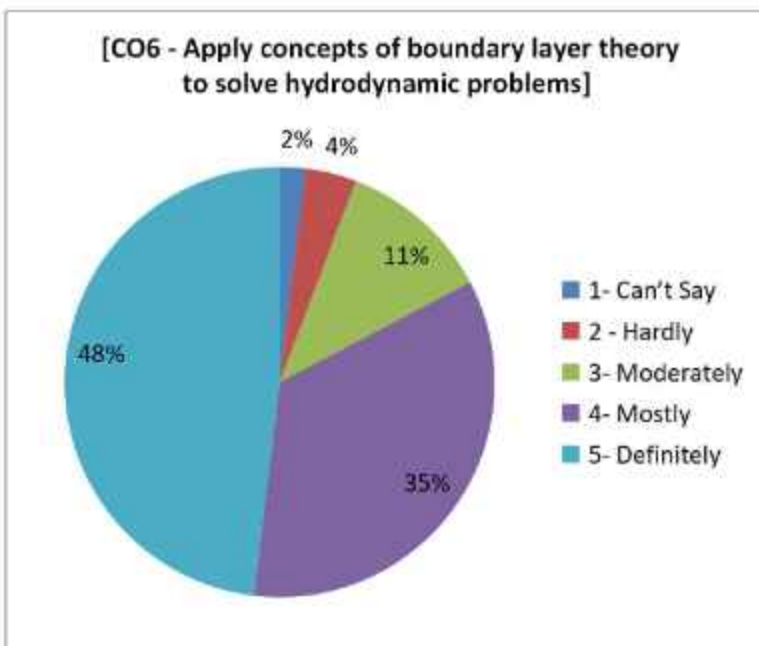
[CO5 - Determine the appropriate method to evaluate head loss in pipe line due to friction]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	3	5.769230769
4- Mostly	21	40.38461538
5- Definitely	25	48.07692308
Total	52	100



[CO6 - Apply concepts of boundary layer theory to solve hydrodynamic problems]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	6	11.53846154
4- Mostly	18	34.61538462
5- Definitely	25	48.07692308
Total	52	100



  
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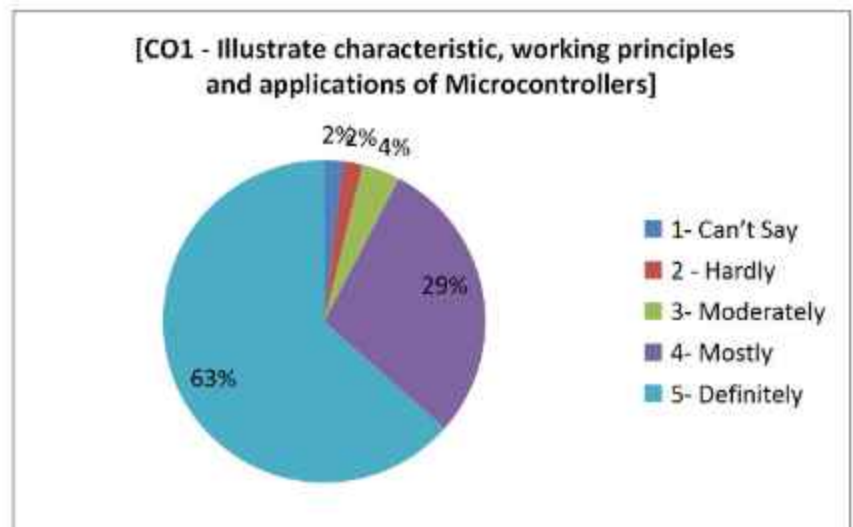
**Course Exit Analysis Report (Sem IV)**

**Subject: Industrial Electronics (AEC405)**

Subject In-charge: Prof. Nilesh Patil

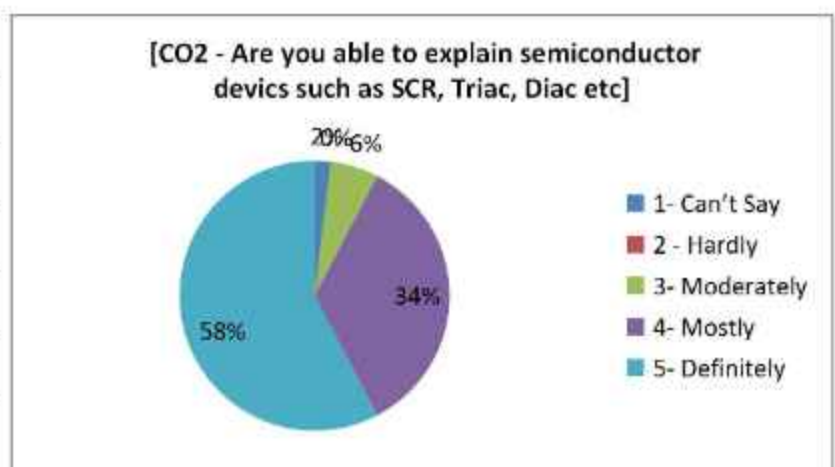
[CO1 - Illustrate characteristic, working principles and applications of Microcontrollers]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	2	3.846153846
4- Mostly	15	28.84615385
5- Definitely	33	63.46153846
<b>Total</b>	<b>52</b>	<b>100</b>



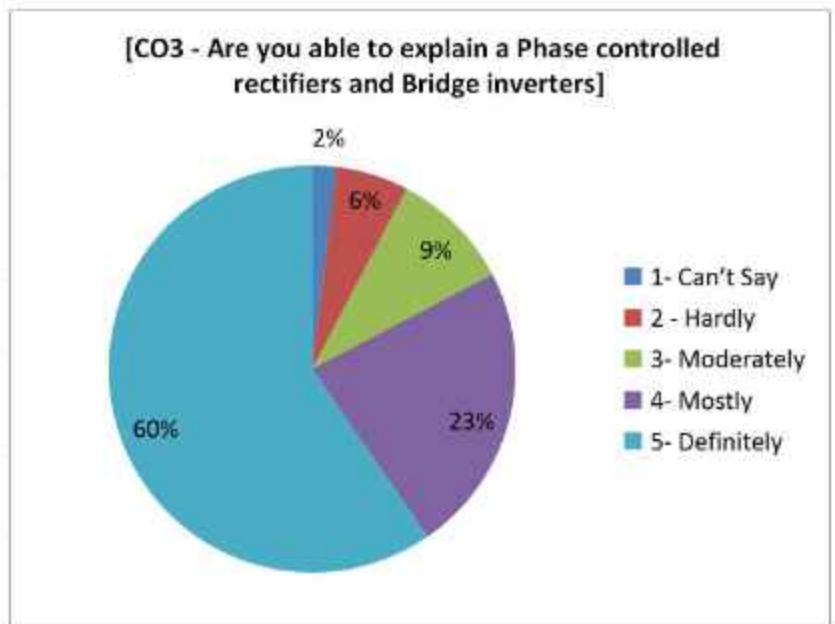
[CO2 - Are you able to explain semiconductor devices such as SCR, Triac, Diac etc]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	3	5.769230769
4- Mostly	18	34.61538462
5- Definitely	30	57.69230769
<b>Total</b>	<b>52</b>	<b>100</b>



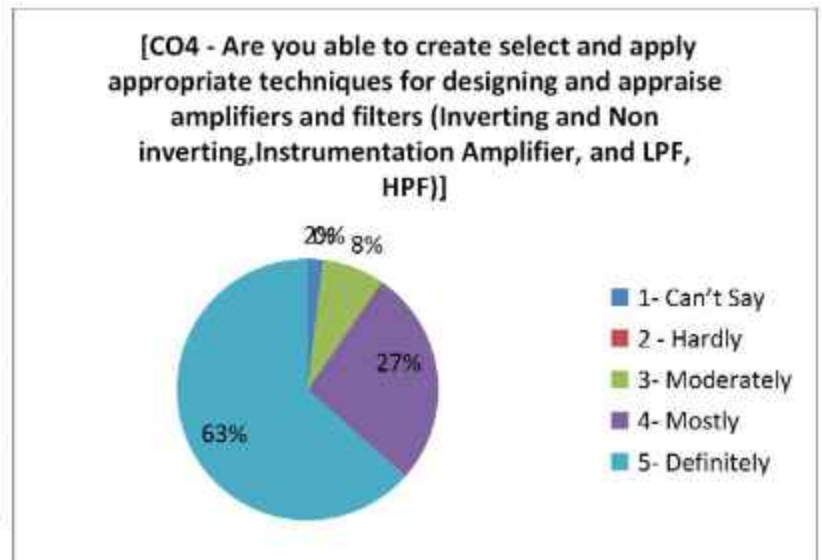
[CO3 - Are you able to explain a Phase controlled rectifiers and Bridge inverters]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	3	5.769230769
3- Moderately	5	9.615384615
4- Mostly	12	23.07692308
5- Definitely	31	59.61538462
Total	52	100



[CO4 - Are you able to create select and apply appropriate techniques for designing and appraise amplifiers and filters (Inverting and Non inverting, Instrumentation Amplifier, and LPF, HPF)]

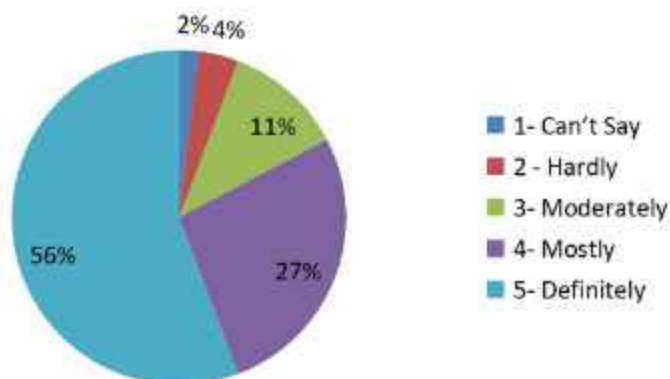
Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	4	7.692307692
4- Mostly	14	26.92307692
5- Definitely	33	63.46153846
Total	52	100



[CO5 - Are you able to develop logic and apply it to solve complex engineering problems by analyzing logic gates, flip flop and logic circuits ]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	6	11.53846154
4- Mostly	14	26.92307692
5- Definitely	29	55.76923077
Total	52	100

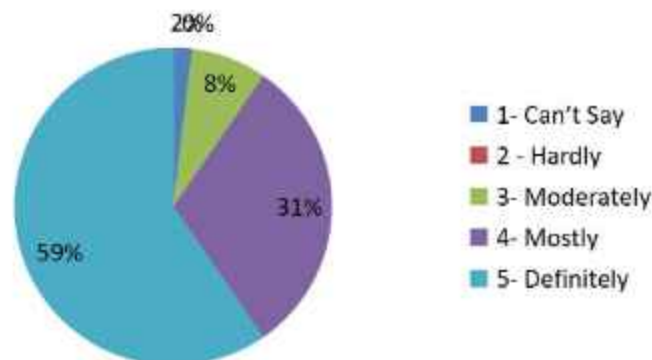
[CO5 - Are you able to develop logic and apply it to solve complex engineering problems by analyzing logic gates, flip flop and logic circuits]



[CO6 - Are you able to find application of Microprocessor , Microcontrollers and Various motor industrial electronics]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	4	7.692307692
4- Mostly	16	30.76923077
5- Definitely	31	59.61538462
Total	52	100

[CO6 - Are you able to find application of Microprocessor , Microcontrollers and Various motor industrial electronics]



  
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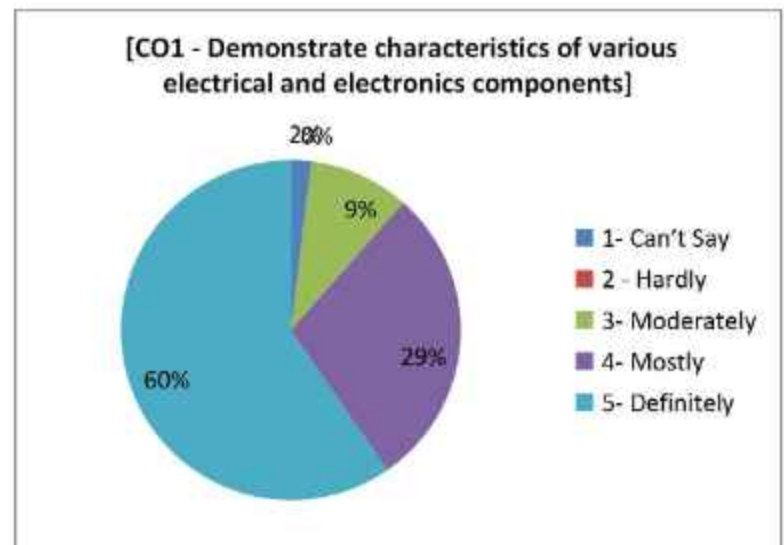
**Course Exit Analysis Report ( SemIV)**

**Subject: Industrial Electronics (AEL401)**

Subject In-charge: Prof.NileshPatil

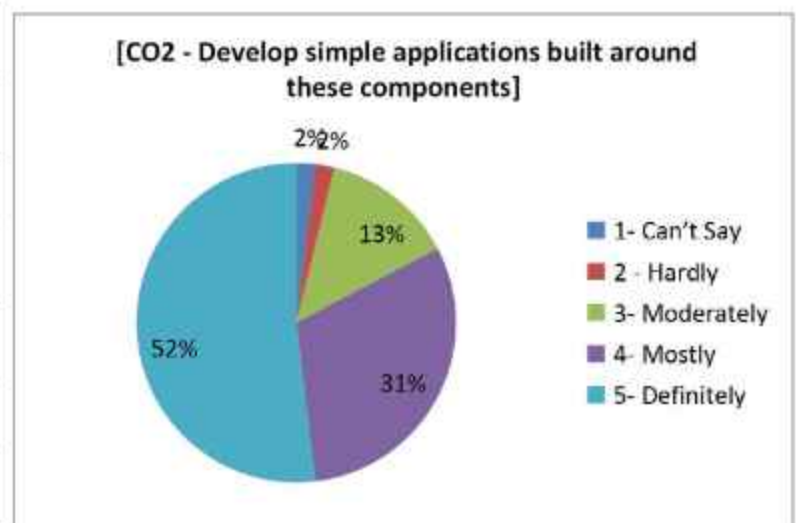
[CO1 - Demonstrate characteristics of various electrical and electronics components]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	5	9.615384615
4- Mostly	15	28.84615385
5- Definitely	31	59.61538462
Total	52	100



[CO2 - Develop simple applications built around these components]

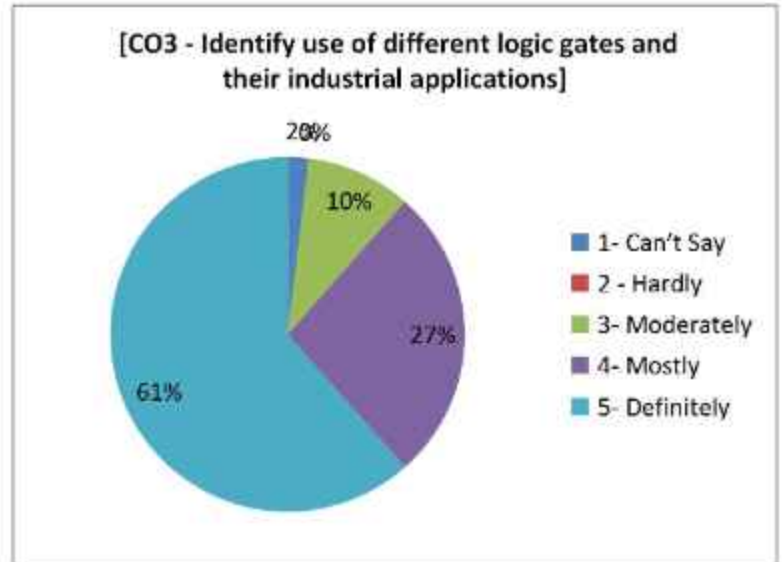
Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	7	13.46153846
4- Mostly	16	30.76923077
5- Definitely	27	51.92307692
Total	52	100





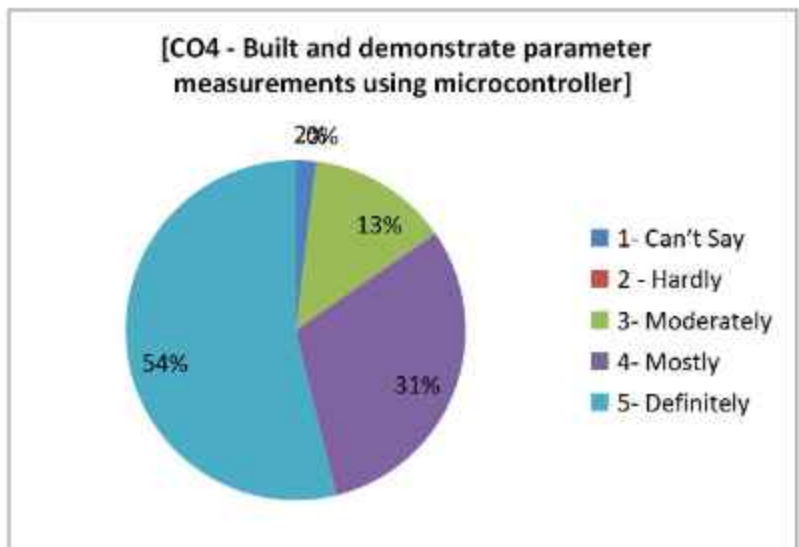
[CO3 - Identify use of different logic gates and their industrial applications]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	5	9.615384615
4- Mostly	14	26.92307692
5- Definitely	32	61.53846154
Total	52	100



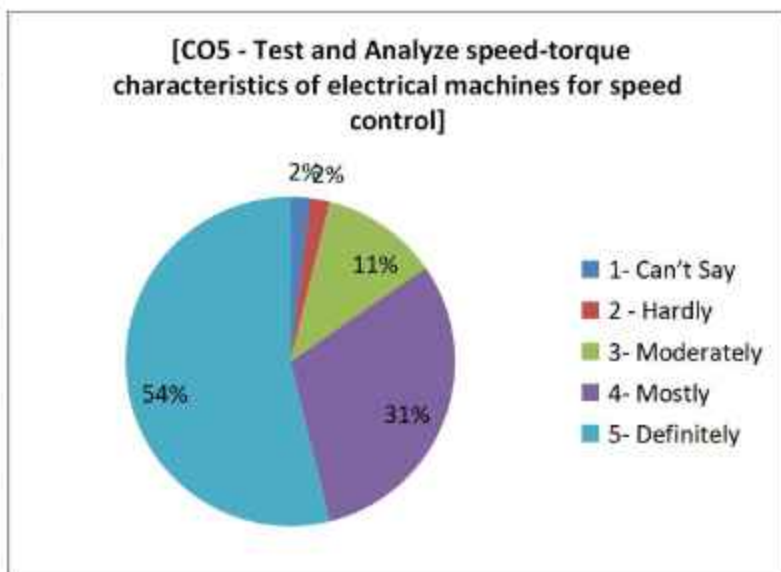
[CO4 - Built and demonstrate parameter measurements using microcontroller]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	7	13.46153846
4- Mostly	16	30.76923077
5- Definitely	28	53.84615385
Total	52	100



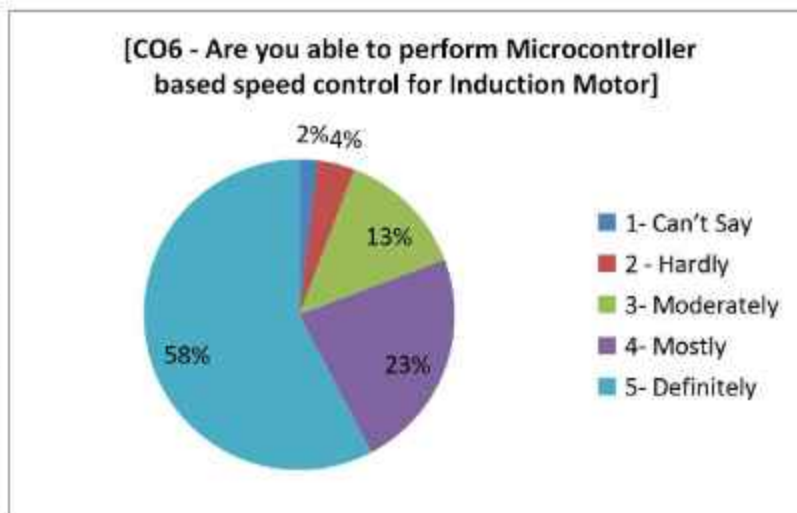
[CO5 - Test and Analyze speed-torque characteristics of electrical machines for speed control]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	6	11.53846154
4- Mostly	16	30.76923077
5- Definitely	28	53.84615385
Total	52	100



[CO6 - Are you able to perform Microcontroller based speed control for Induction Motor]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	7	13.46153846
4- Mostly	12	23.07692308
5- Definitely	30	57.69230769
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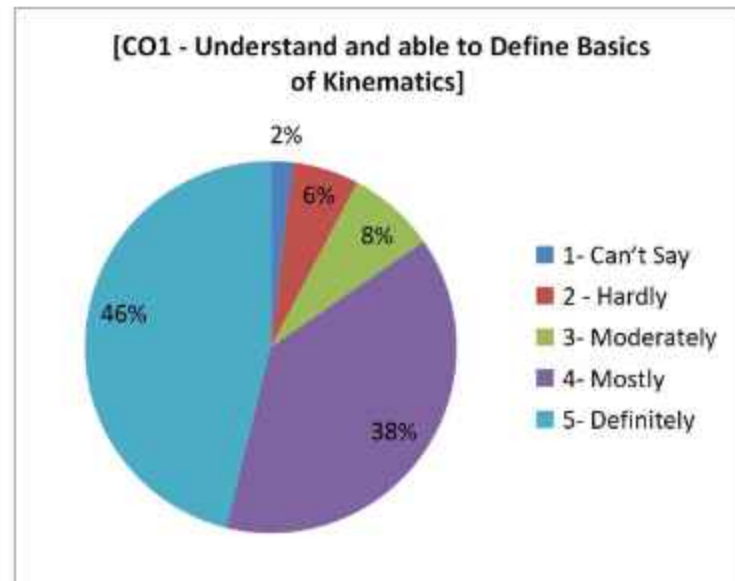
**Course Exit Analysis Report (Sem IV)**

**Subject: Kinetic of Machinery (AEC403)**

Subject In-charge: Prof.PramodDeshmukh

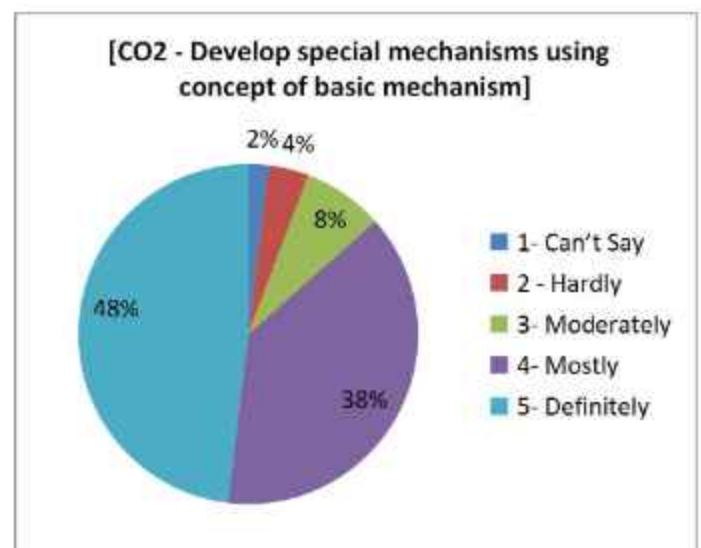
[CO1 - Understand and able to Define Basics of Kinematics]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	3	5.769230769
3- Moderately	4	7.692307692
4- Mostly	20	38.46153846
5- Definitely	24	46.15384615
Total	52	100



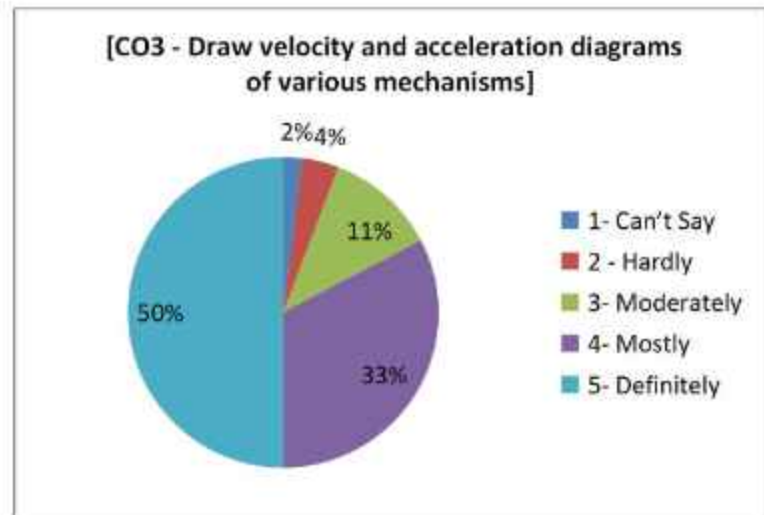
[CO2 - Develop special mechanisms using concept of basic mechanism]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	4	7.692307692
4- Mostly	20	38.46153846
5- Definitely	25	48.07692308
Total	52	100



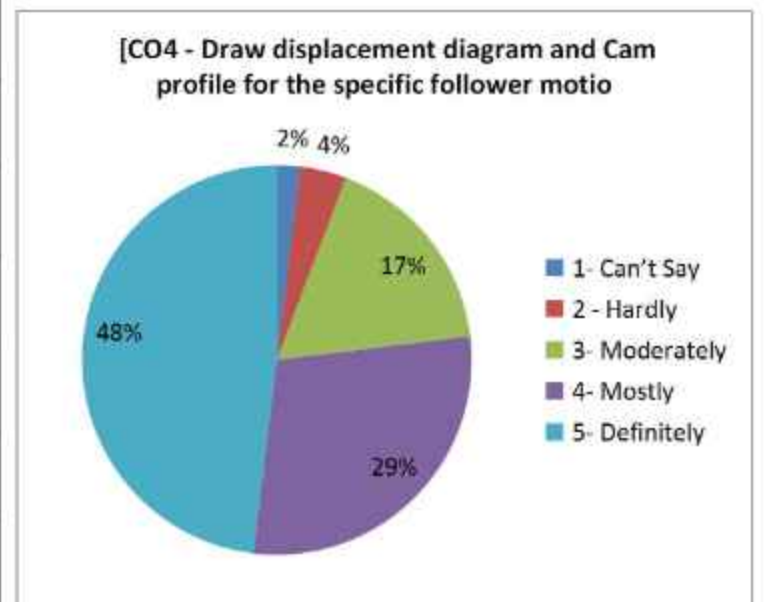
[CO3 - Draw velocity and acceleration diagrams of various mechanisms]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	6	11.53846154
4- Mostly	17	32.69230769
5- Definitely	26	50
Total	52	100



[CO4 - Draw displacement diagram and Cam profile for the specific follower motion]

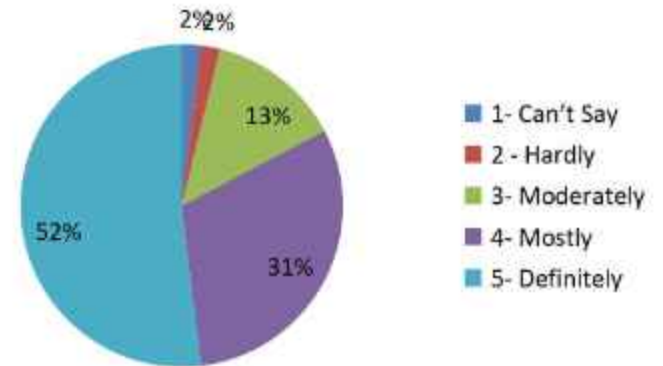
Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	9	17.30769231
4- Mostly	15	28.84615385
5- Definitely	25	48.07692308
Total	52	100



[CO5 - Select appropriate power transmission for specific application

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	7	13.46153846
4- Mostly	16	30.76923077
5- Definitely	27	51.92307692
Total	52	100

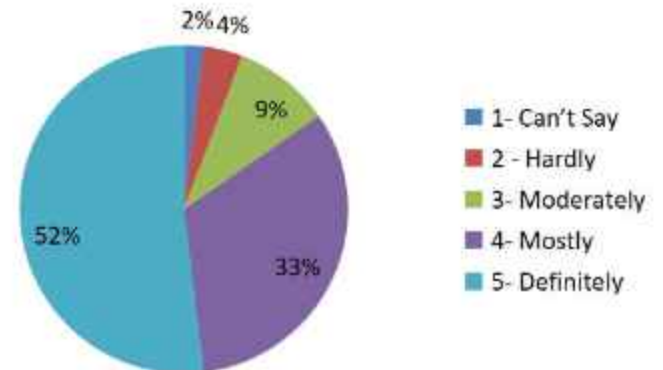
[CO5 - Select appropriate power transmission for specific applicatio



[CO6 – Identify the application of gears and Analyse motion in various gears trains]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	5	9.615384615
4- Mostly	17	32.69230769
5- Definitely	27	51.92307692
Total	52	100

[CO6 – Identify the application of gears and Analyse motion in various gears trains]



  
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Department of Automobile

Engineering Academic Year: 2022-23

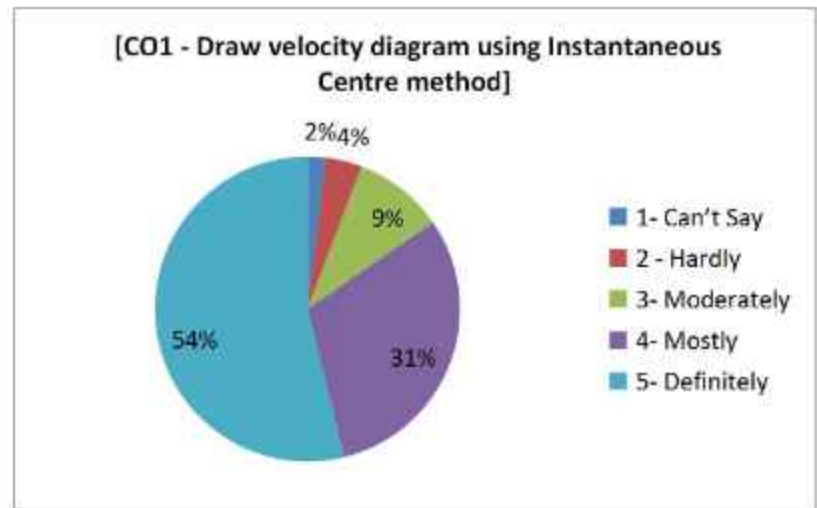
**Course Exit Analysis Report (Sem IV)**

**Subject: Kinetic of Machinery (AEL402)**

Subject In-charge: Prof. SagarKadu

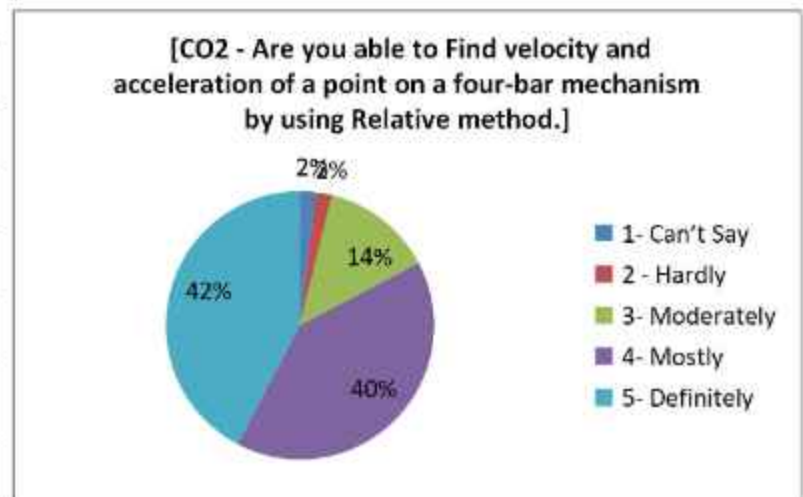
[CO1 - Draw velocity diagram using Instantaneous Centre method]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	5	9.615384615
4- Mostly	16	30.76923077
5- Definitely	28	53.84615385
Total	52	100



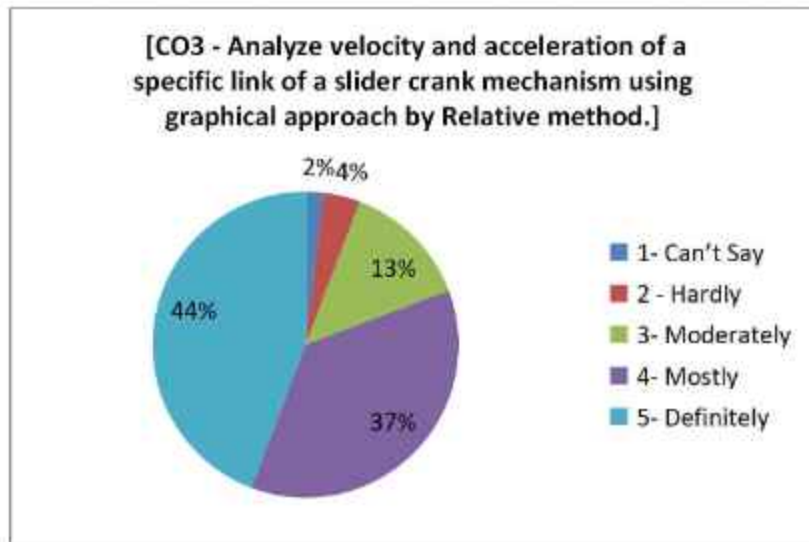
[CO2 - Are you able to Find velocity and acceleration of a point on a four-bar mechanism by using Relative method.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	7	13.46153846
4- Mostly	21	40.38461538
5- Definitely	22	42.30769231
Total	52	100



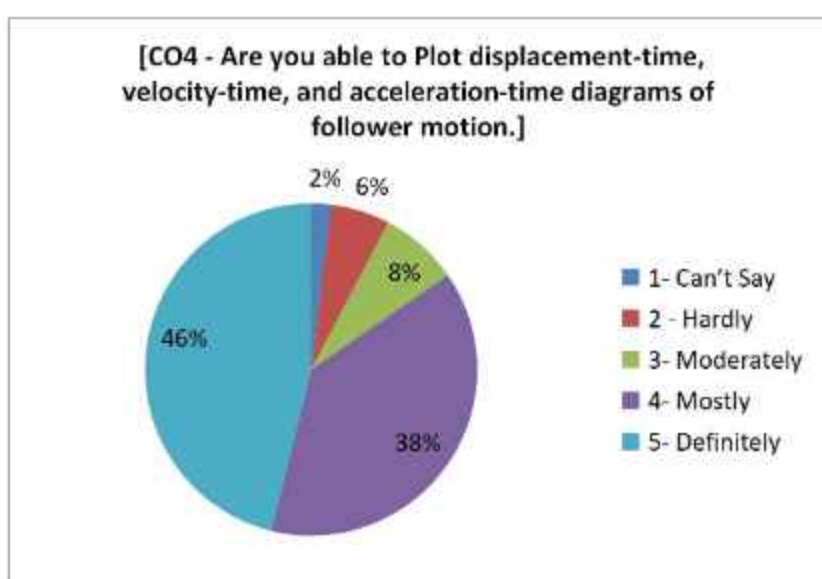
[CO3 - Analyze velocity and acceleration of a specific link of a slider crank mechanism using graphical approach by Relative method.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	7	13.46153846
4- Mostly	19	36.53846154
5- Definitely	23	44.23076923
Total	52	100



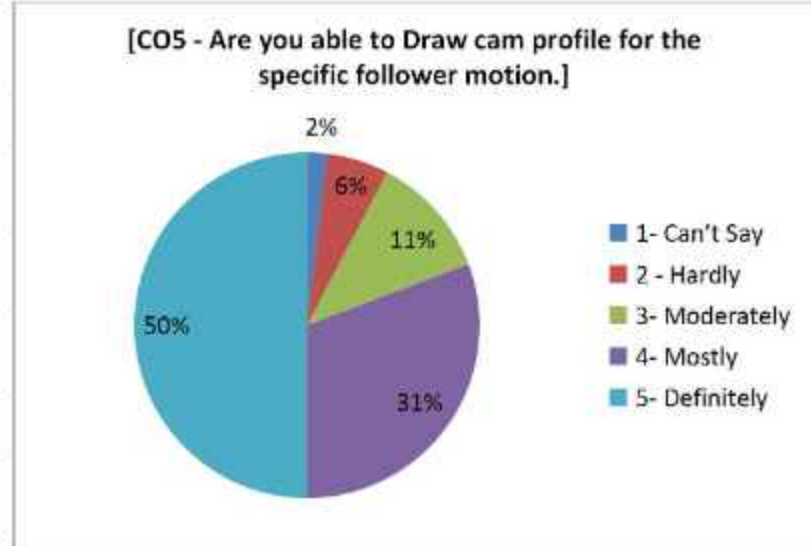
[CO4 - Are you able to Plot displacement-time, velocity-time, and acceleration-time diagrams of follower motion.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	3	5.769230769
3- Moderately	4	7.692307692
4- Mostly	20	38.46153846
5- Definitely	24	46.15384615
Total	52	100



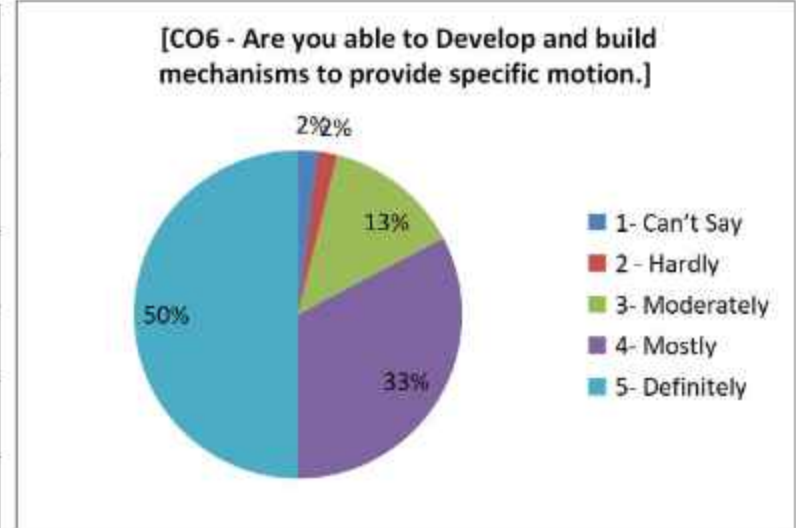
[CO5 - Are you able to Draw cam profile for the specific follower motion.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	3	5.769230769
3- Moderately	6	11.53846154
4- Mostly	16	30.76923077
5- Definitely	26	50
Total	52	100



[CO6 - Are you able to Develop and build mechanisms to provide specific motion.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	7	13.46153846
4- Mostly	17	32.69230769
5- Definitely	26	50
Total	52	100



  
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Department of Automobile

Engineering Academic Year: 2022-23

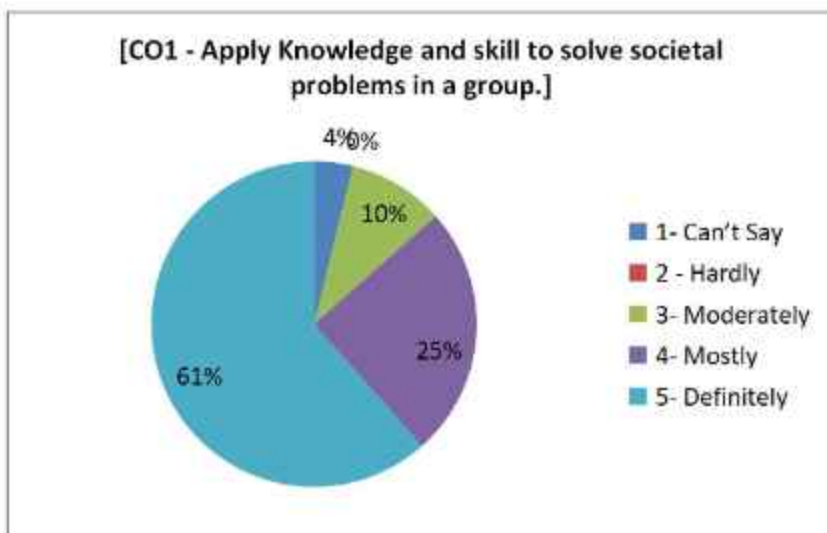
**Course Exit Analysis Report (SEM IV)**

**Subject: Mini Project - 1B (AEPBL401)**

Subject In-charge: Prof. Soni Jaisval

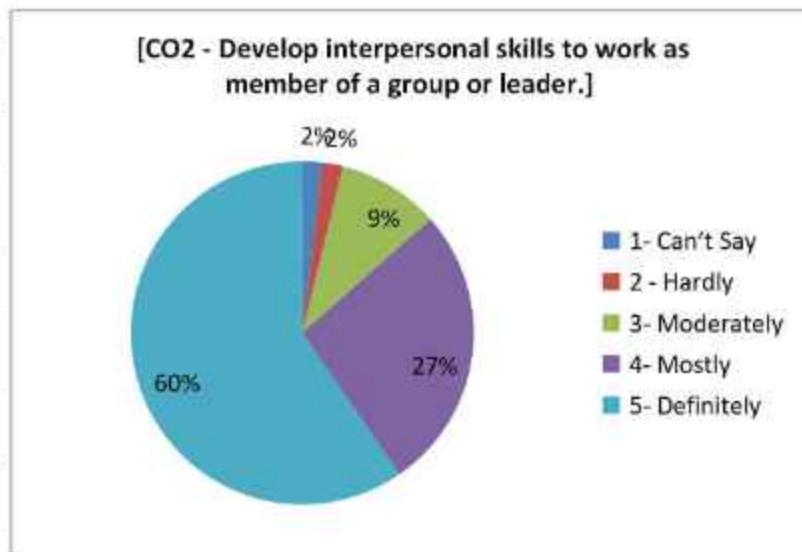
[CO1 - Apply Knowledge and skill to solve societal problems in a group.]

Score	No. of Students	Percentage
1- Can't Say	2	3.846153846
2 - Hardly	0	0
3- Moderately	5	9.615384615
4- Mostly	13	25
5- Definitely	32	61.53846154
Total	52	100



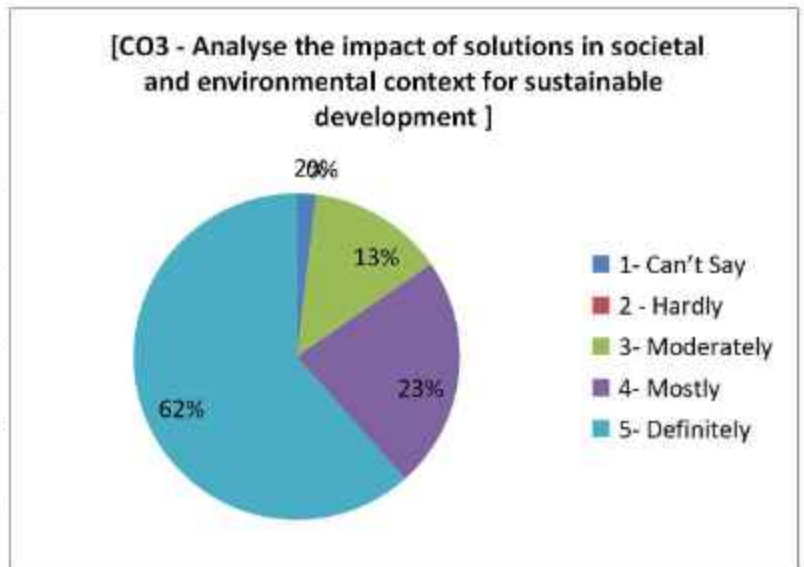
[CO2 - Develop interpersonal skills to work as member of a group or leader.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	5	9.615384615
4- Mostly	14	26.92307692
5- Definitely	31	59.61538462
Total	52	100



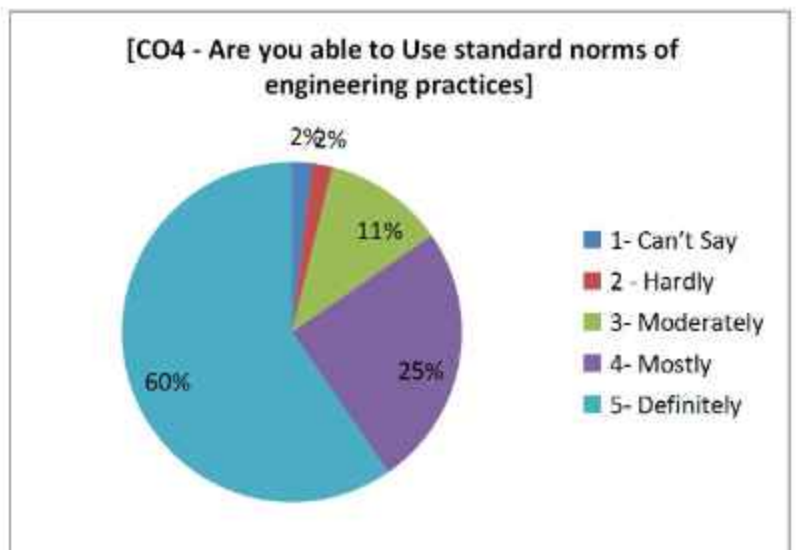
[CO3 - Analyze the impact of solutions in societal and environmental context for sustainable development ]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	7	13.46153846
4- Mostly	12	23.07692308
5- Definitely	32	61.53846154
Total	52	100



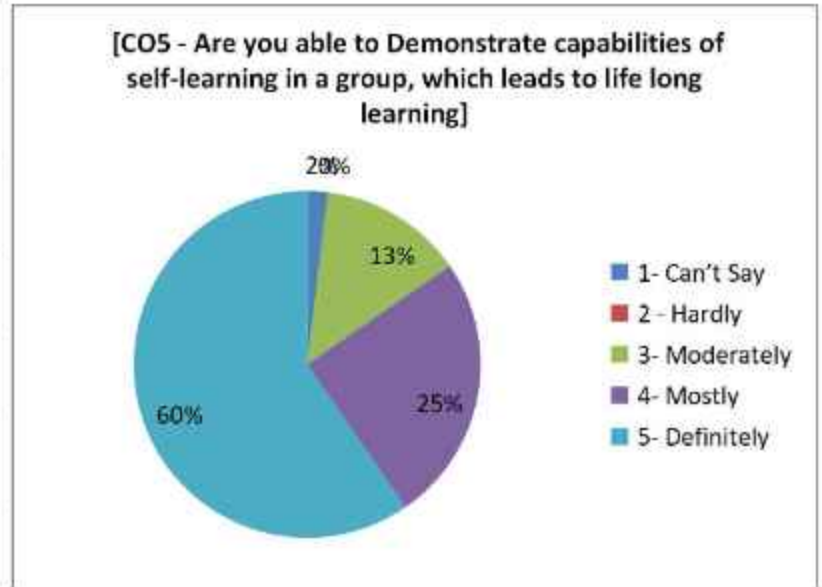
[CO4 - Are you able to Use standard norms of engineering practices]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	1	1.923076923
3- Moderately	6	11.53846154
4- Mostly	13	25
5- Definitely	31	59.61538462
Total	52	100



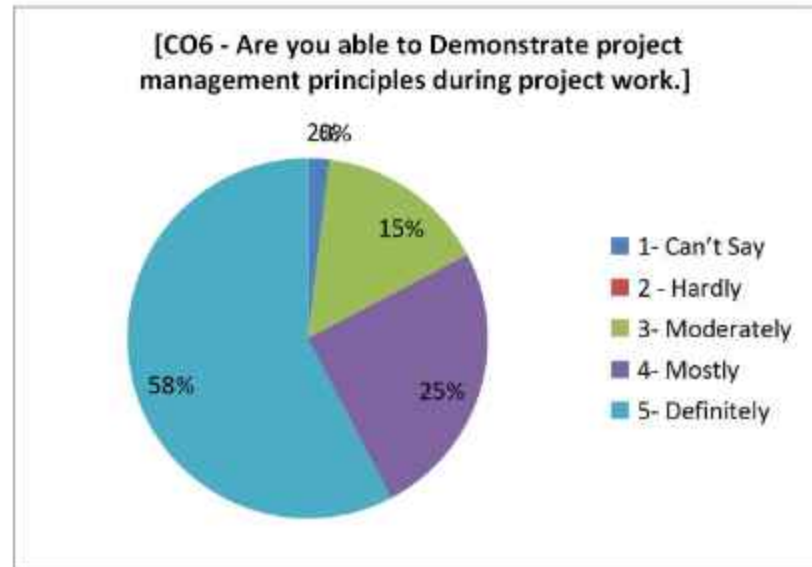
[CO5 - Are you able to Demonstrate capabilities of self-learning in a group, which leads to life long learning]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	7	13.46153846
4- Mostly	13	25
5- Definitely	31	59.61538462
Total	52	100



[CO6 - Are you able to Demonstrate project management principles during project work.]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	0	0
3- Moderately	8	15.38461538
4- Mostly	13	25
5- Definitely	30	57.69230769
Total	52	100



  
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Engineering Academic Year: 2022-23

**Course Exit Analysis Report ( Sem IV)**

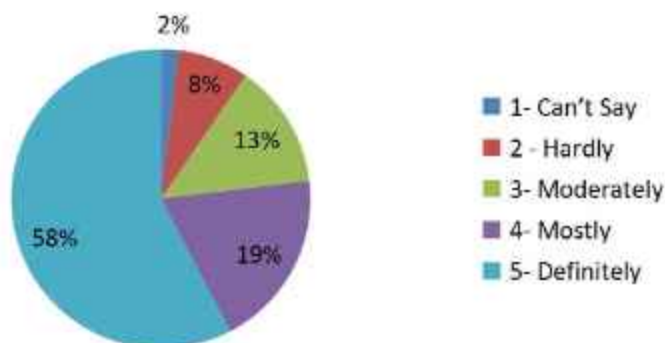
**Subject: Python Programming (AEL403)**

Subject In-charge: Dr. Vishnudas Chodankar

[CO1 - Illustrate Manipulating variables,  
indexing, slicing]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	4	7.692307692
3- Moderately	7	13.46153846
4- Mostly	10	19.23076923
5- Definitely	30	57.69230769
Total	52	100

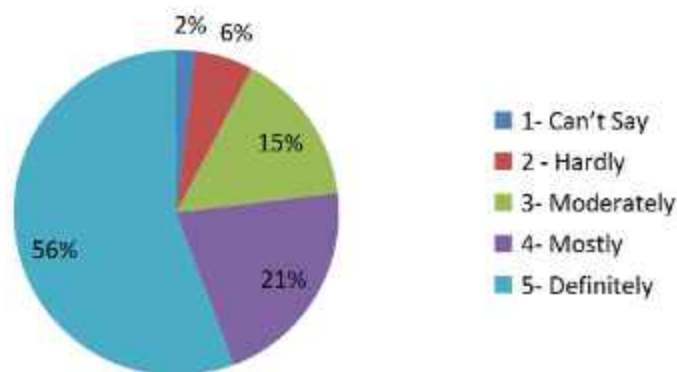
[CO1 - Illustrate Manipulating variables, indexing, slicing]



[CO2 - Are you able to code If, else, elif statements, for loops, range function,]

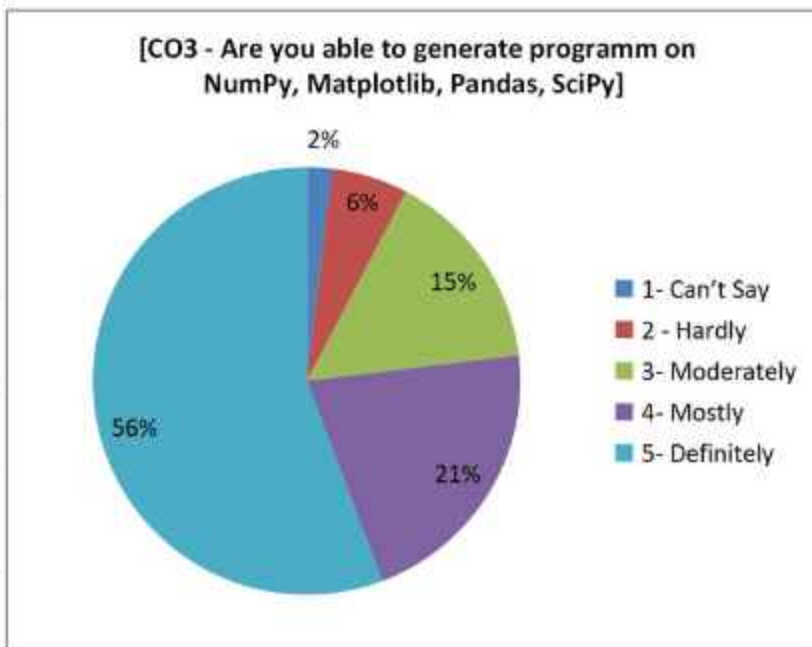
Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	3	5.769230769
3- Moderately	8	15.38461538
4- Mostly	11	21.15384615
5- Definitely	29	55.76923077
Total	52	100

[CO2 - Are you able to code If, else, elif statements, for loops, range function,]



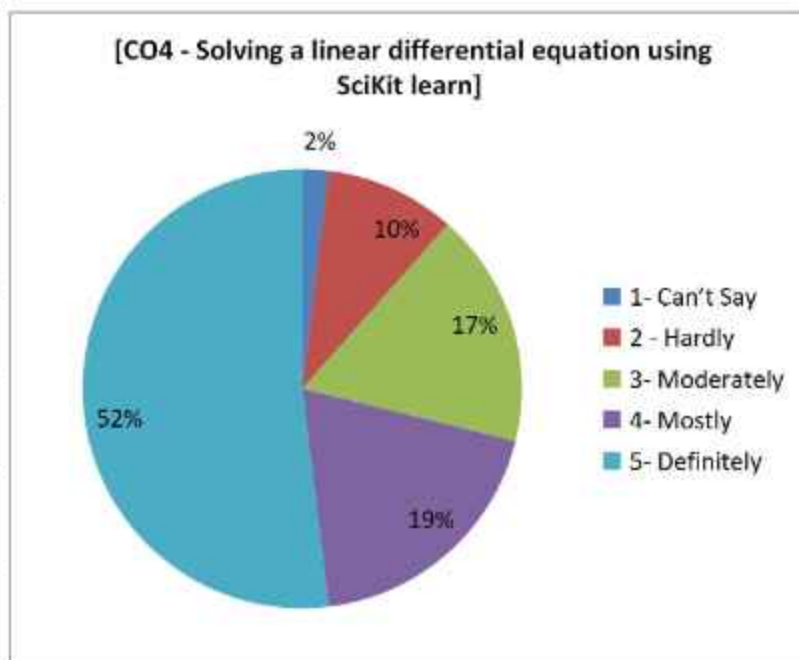
[CO3 - Are you able to generate programm on NumPy, Matplotlib, Pandas, SciPy]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	3	5.769230769
3- Moderately	8	15.38461538
4- Mostly	11	21.15384615
5- Definitely	29	55.76923077
Total	52	100



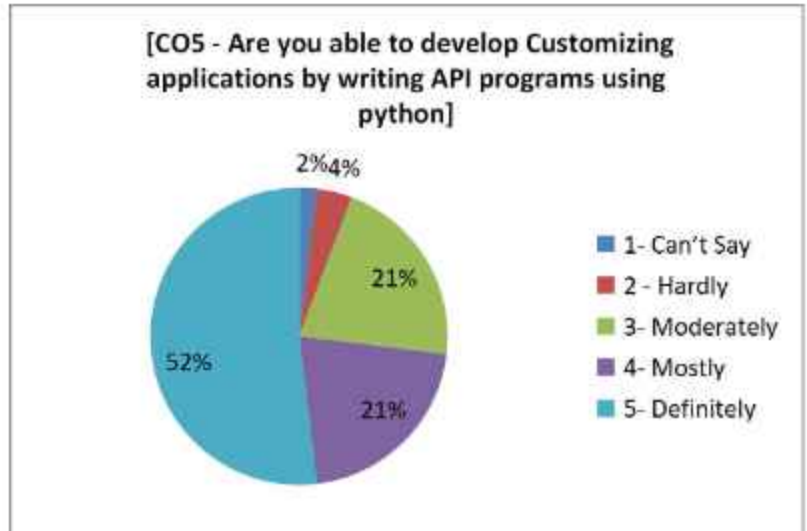
[CO4 - Solving a linear differential equation using SciKit learn]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	5	9.615384615
3- Moderately	9	17.30769231
4- Mostly	10	19.23076923
5- Definitely	27	51.92307692
Total	52	100



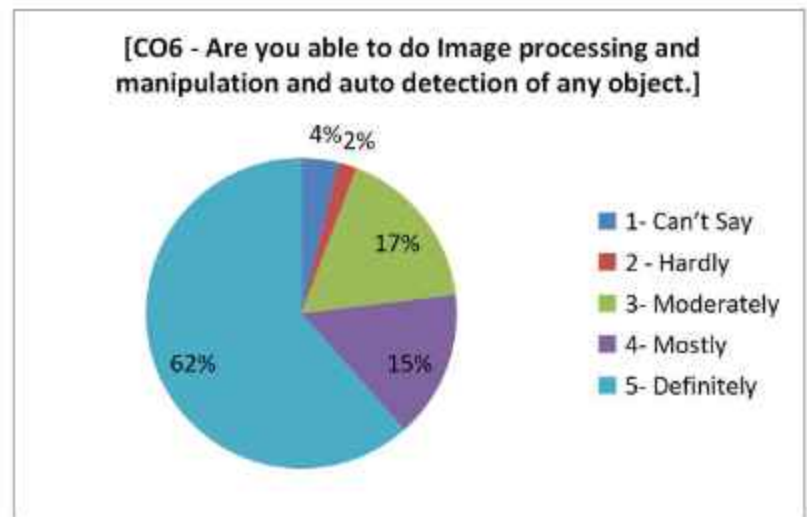
[CO5 - Are you able to develop Customizing applications by writing API programs using python]

Score	No. of Students	Percentage
1- Can't Say	1	1.923076923
2 - Hardly	2	3.846153846
3- Moderately	11	21.15384615
4- Mostly	11	21.15384615
5- Definitely	27	51.92307692
Total	52	100



[CO6 - Are you able to do Image processing and manipulation and auto detection of any object.]

Score	No. of Students	Percentage
1- Can't Say	2	3.846153846
2 - Hardly	1	1.923076923
3- Moderately	9	17.30769231
4- Mostly	8	15.38461538
5- Definitely	32	61.53846154
Total	52	100



  
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**Action Taken Report on Student's Feedback**

**Department: Automobile Engineering**

**Academic Year- 2022-2023**

**SEM: SEM IV**

**YEAR: SE**

SR NO	Subject	Faculty	Feedback/Concern	Action Take
1	Industrial Electronics	Prof.NileshPatil	Need to understand screw gauge and advance method via some video content	Video shown to students <a href="https://www.youtube.com/watch?v=6rAZyEF9PYo">https://www.youtube.com/watch?v=6rAZyEF9PYo</a>
2	Kinetic of Machinery	Prof.Pramod Deshmukh	Difficulty in understanding POWER BJT	Shared Vide link to students: <a href="https://www.youtube.com/watch?v=tNp39_L_HtU">https://www.youtube.com/watch?v=tNp39_L_HtU</a>
3	Fluid Mechanics	Prof.Nidhi Singh	More informative notes about two stroke engine	Informative notes for the required topic were provided to students: <a href="https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf">https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf</a>
4	Engineering mathematics	Prof. Ganesh Rodge	More practical session and video contents should be included on convection	Video session has been implemented through projector in lecture: <a href="https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf">https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf</a>

5	CAD-CAM (AEC404)	Prof.NiteshS aindane	Some of the topics like die pressing are difficult to understand from student point of view	Online animated Content and NPTEL lecture series on such topics were given to students:  <a href="https://www.youtube.com/watch?v=5H0euuo1PGQ&amp;t=55s">https://www.youtube.com/watch?v=5H0euuo1PGQ&amp;t=55s</a>
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HOD

  
Principal





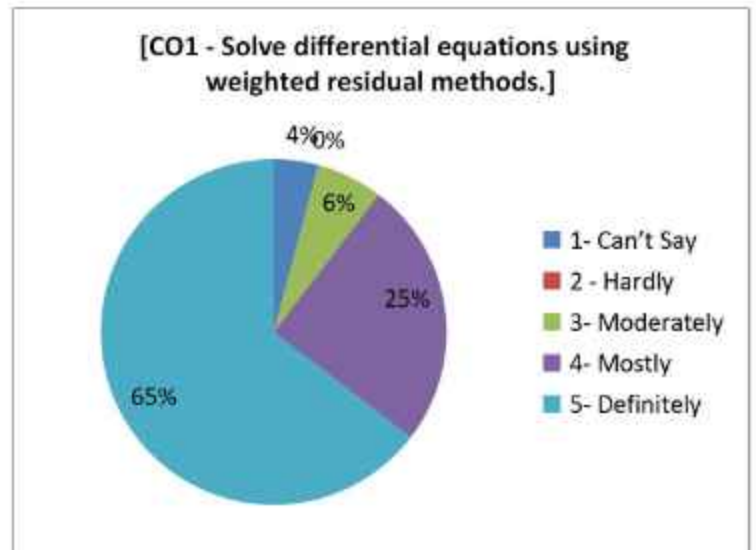
Department of Automobile  
 Engineering Academic Year: 2022-23

**Course Exit Analysis Report (SEM VI)**  
**Subject: AUTOMATION & ARTIFICIAL**  
**INTELLIGENCE (AEC604)**

**Subject In-charge: Dr. Vivek. B. Yakkundi**

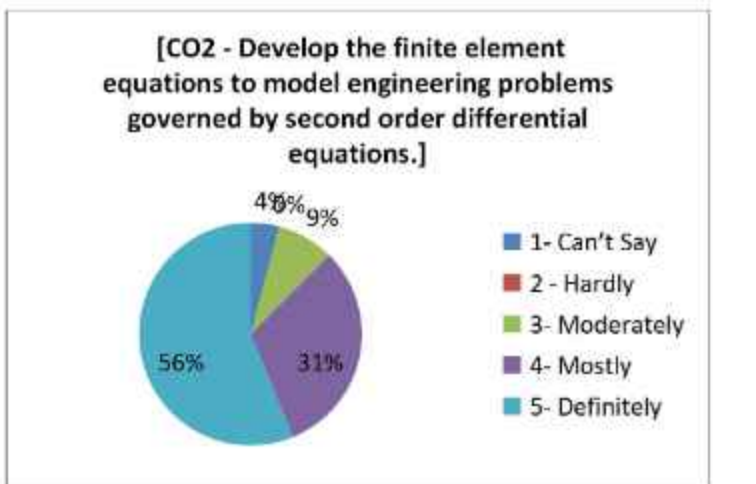
[CO1 - Demonstrate the importance of AI in Automobile Engineering]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	3	6.25
4- Mostly	12	25
5- Definitely	31	64.58333333
Total	48	100



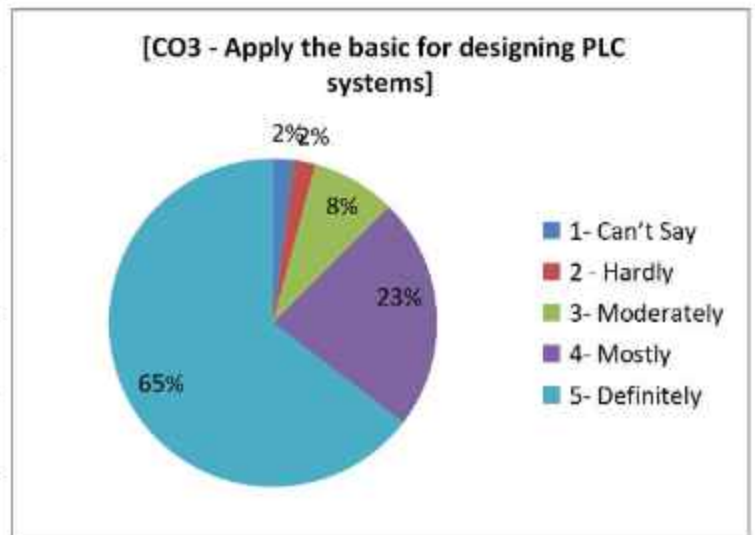
[CO2 - Develop the Pneumatic and Hydraulic Circuits]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	4	8.333333333
4- Mostly	15	31.25
5- Definitely	27	56.25
Total	48	100



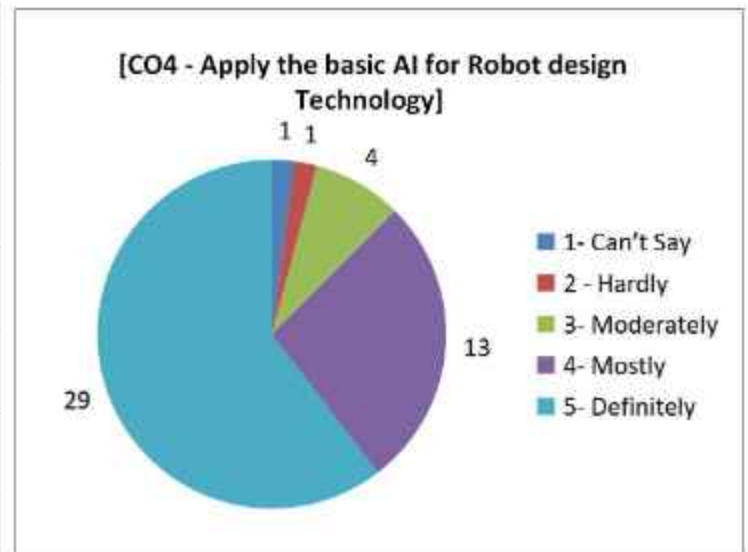
[CO3 - Apply the basic for designing PLC systems]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	4	8.333333333
4- Mostly	11	22.91666667
5- Definitely	31	64.58333333
Total	48	100



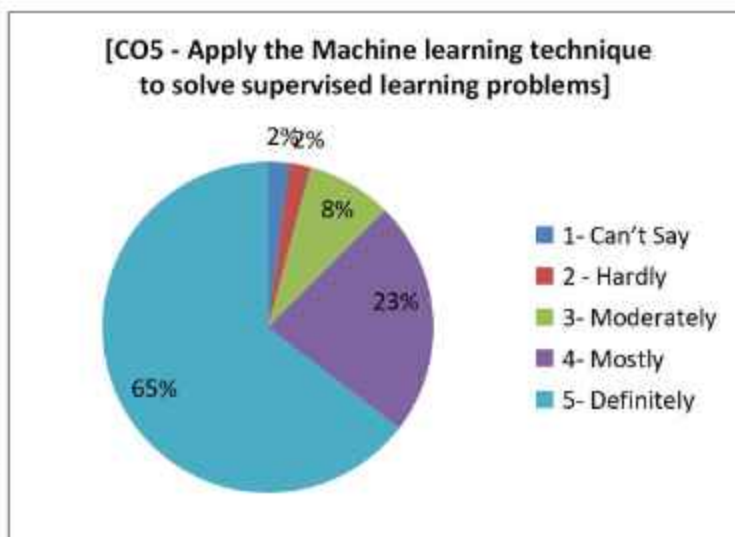
[CO4 - Apply the basic AI for Robot design Technology]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	4	8.333333333
4- Mostly	13	27.08333333
5- Definitely	29	60.41666667
Total	48	100



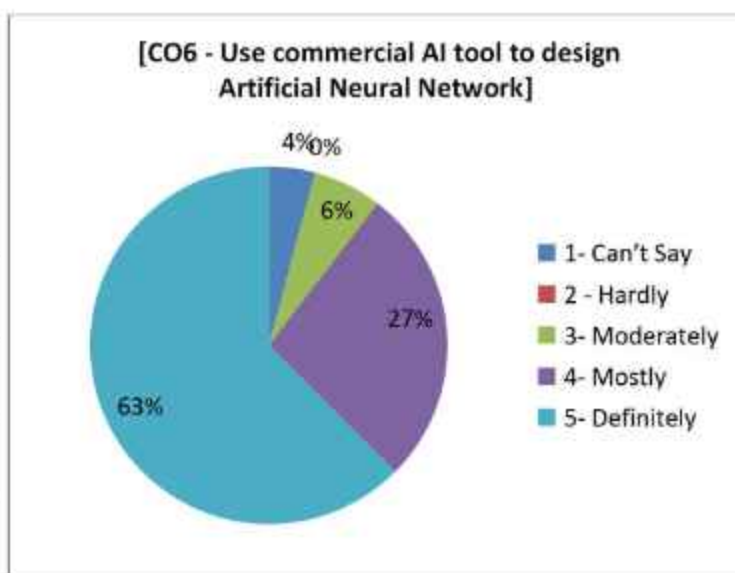
[CO5 - Apply the Machine learning technique to solve supervised learning problems]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	4	8.333333333
4- Mostly	11	22.91666667
5- Definitely	31	64.58333333
Total	48	100



[CO6 - Use commercial AI tool to design Artificial Neural Network]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	3	6.25
4- Mostly	13	27.08333333
5- Definitely	30	62.5
Total	48	100



  
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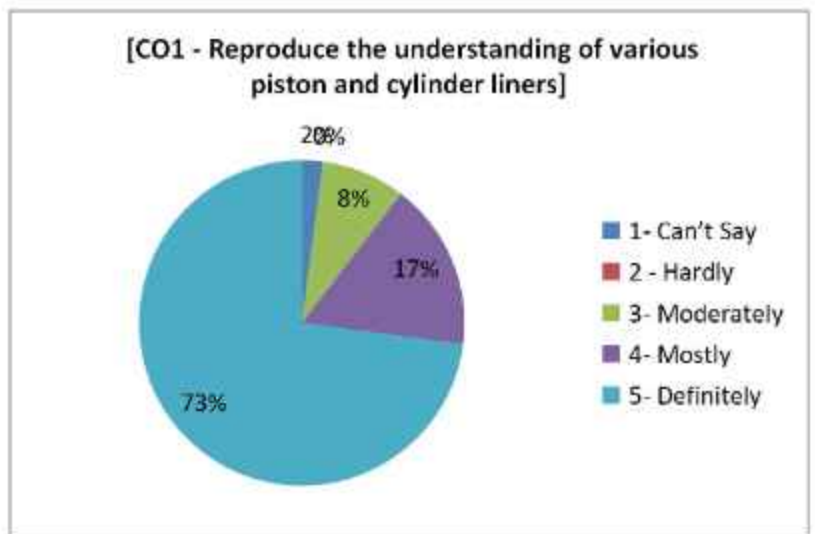


Department of Automobile  
Engineering Academic Year: 2022-23  
**Course Exit Analysis Report (SEM VI)**  
**Subject: AUTOMOTIVE SYSTEM DESIGN**  
**(AEL601)**

**Subject In-charge: Prof. Sagar Kadu**

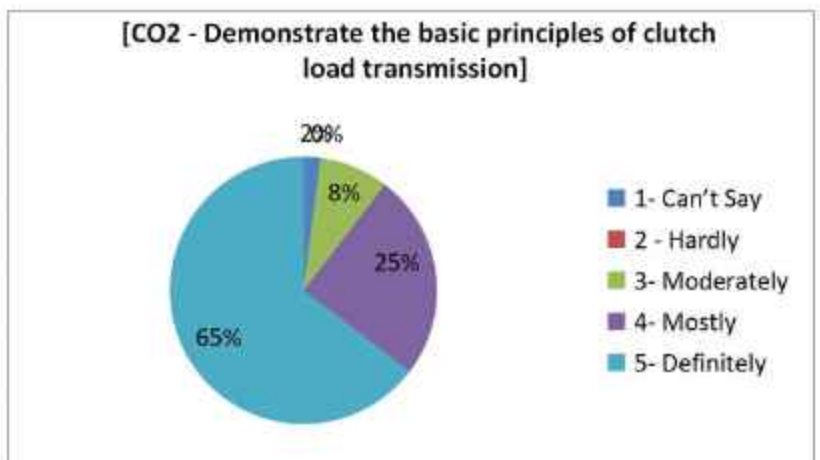
[CO1 - Reproduce the understanding of various piston and cylinder liners]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	4	8.333333333
4- Mostly	8	16.66666667
5- Definitely	35	72.91666667
Total	48	100



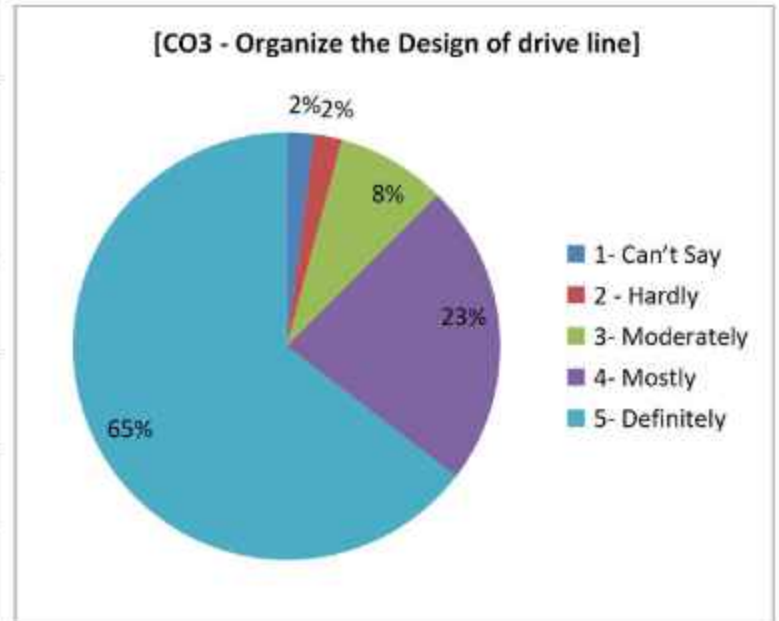
[CO2 - Demonstrate the basic principles of clutch load transmission]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	4	8.333333333
4- Mostly	12	25
5- Definitely	31	64.58333333
Total	48	100



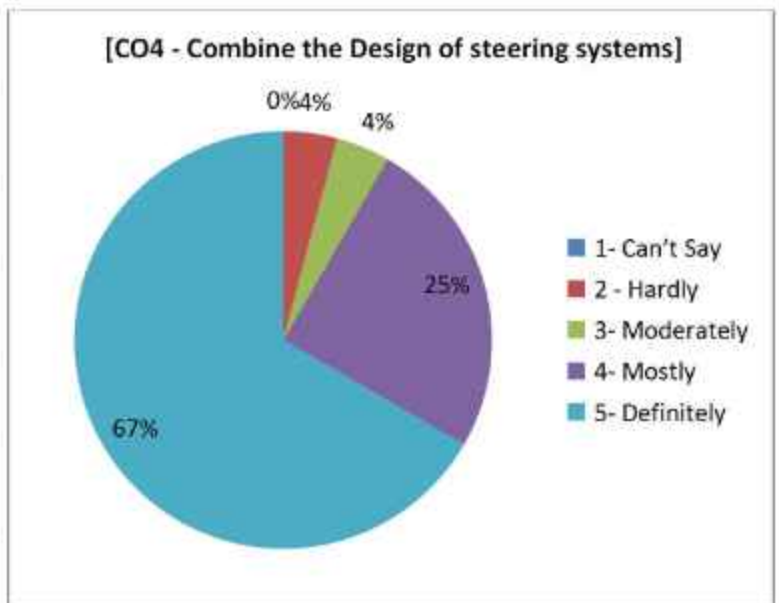
[CO3 - Organize the Design of drive line]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	4	8.333333333
4- Mostly	11	22.91666667
5- Definitely	31	64.58333333
Total	48	100



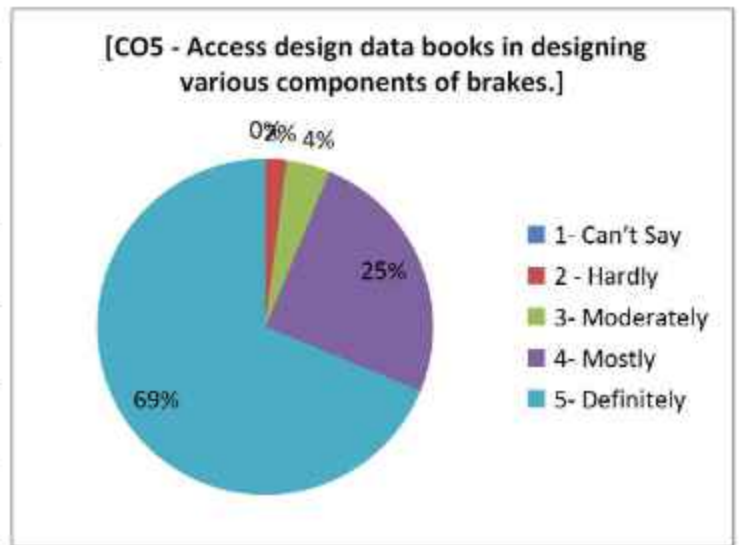
[CO4 - Combine the Design of steering systems]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	2	4.166666667
3- Moderately	2	4.166666667
4- Mostly	12	25
5- Definitely	32	66.66666667
Total	48	100



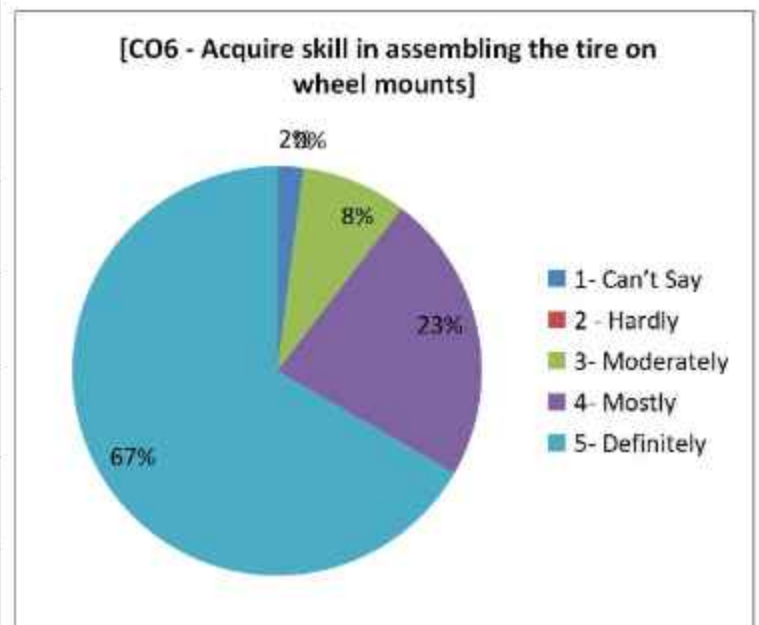
[CO5 - Access design data books in designing various components of brakes.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.083333333
3- Moderately	2	4.166666667
4- Mostly	12	25
5- Definitely	33	68.75
Total	48	100



[CO6 - Acquire skill in assembling the tire on wheel mounts]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	4	8.333333333
4- Mostly	11	22.91666667
5- Definitely	32	66.66666667
Total	48	100



  
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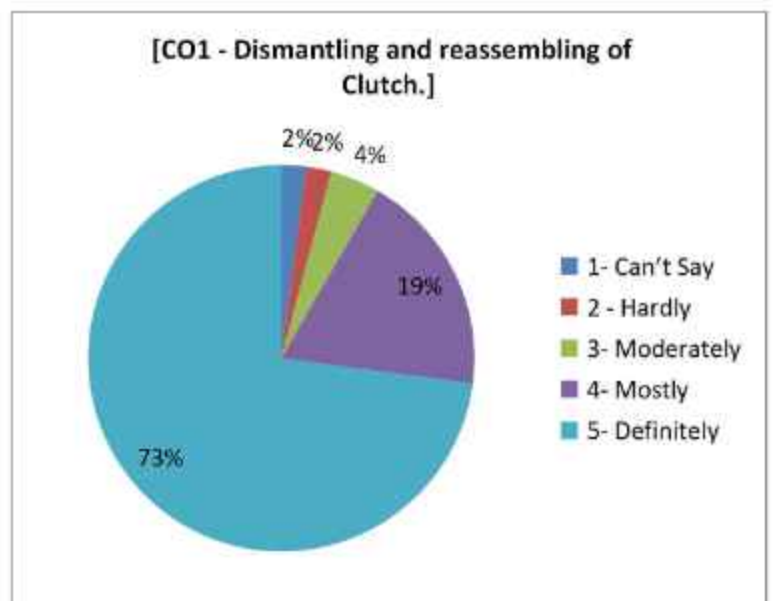
Engineering Academic Year: 2022-23

**Course Exit Analysis Report (SEM VI)**  
**Subject: AUTOMOTIVE SYSTEM DESIGN**  
**(AEL601)**

**Subject In-charge: Prof. Sagar Kadu**

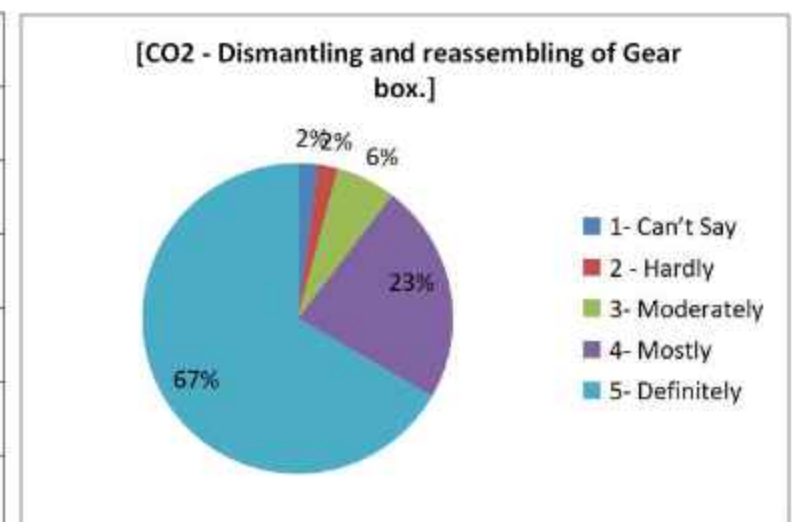
[CO1 - Dismantling and reassembling of Clutch.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	2	4.166666667
4- Mostly	9	18.75
5- Definitely	35	72.91666667
Total	48	100



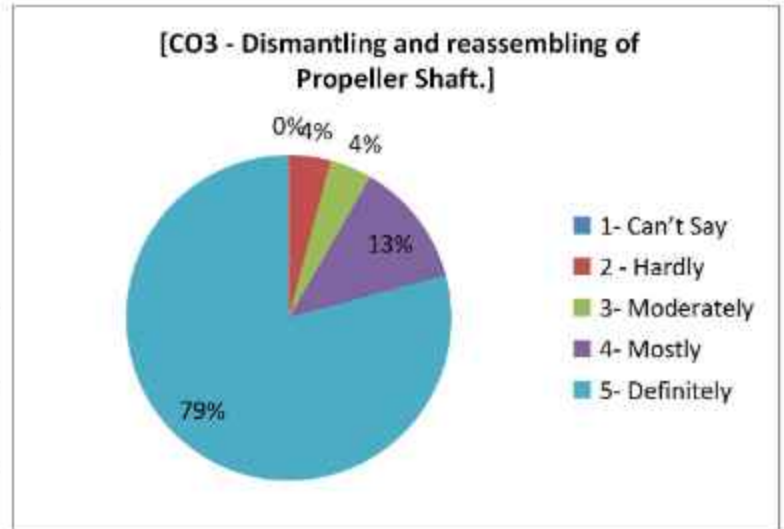
[CO2 - Dismantling and reassembling of Gear box.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	11	22.91666667
5- Definitely	32	66.66666667
Total	48	100



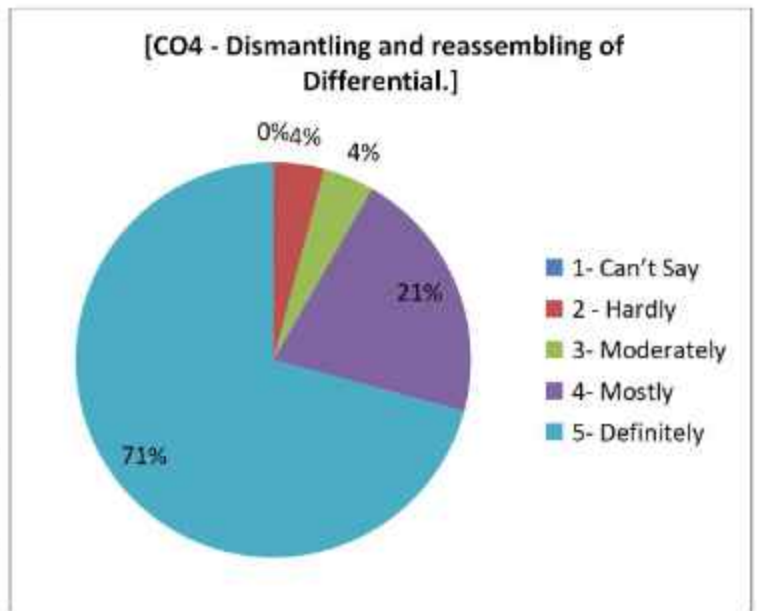
[CO3 - Dismantling and reassembling of Propeller Shaft.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	2	4.166666667
3- Moderately	2	4.166666667
4- Mostly	6	12.5
5- Definitely	38	79.16666667
Total	48	100



[CO4 - Dismantling and reassembling of Differential.]

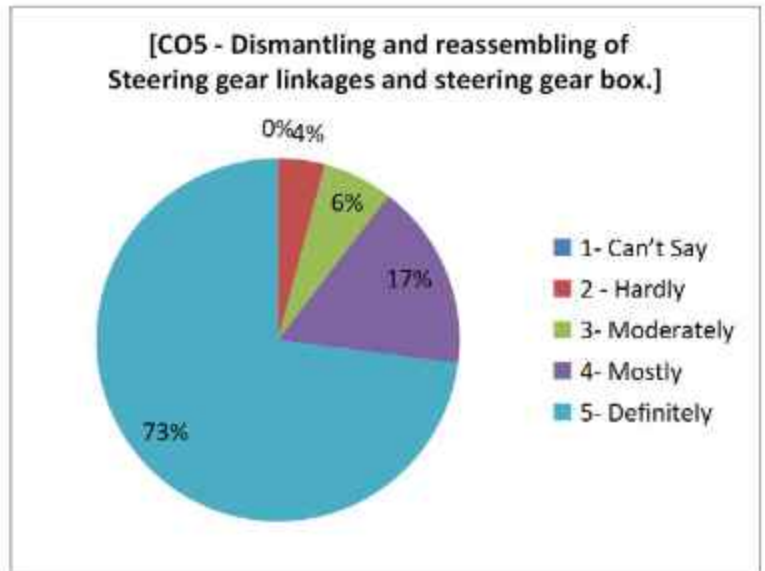
Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	2	4.166666667
3- Moderately	2	4.166666667
4- Mostly	10	20.83333333
5- Definitely	34	70.83333333
Total	48	100





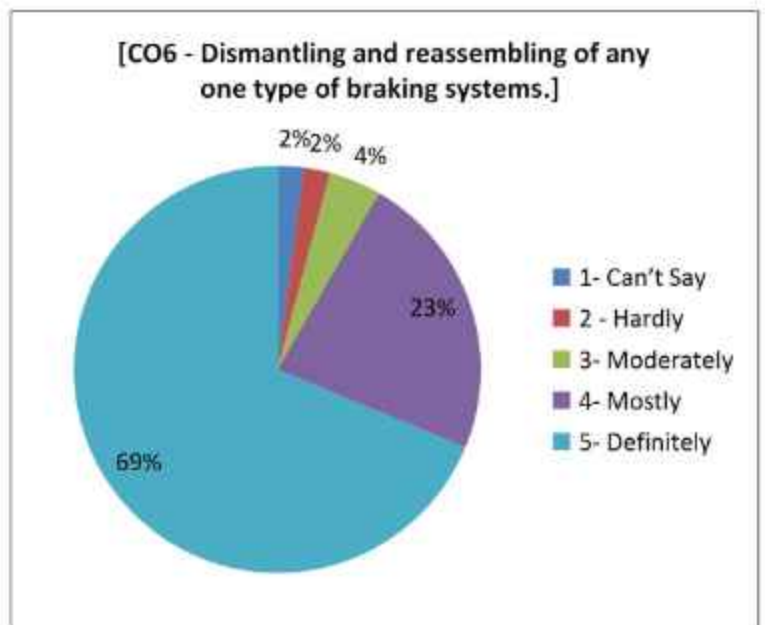
[CO5 - Dismantling and reassembling of Steering gear linkages and steering gear box.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	2	4.166666667
3- Moderately	3	6.25
4- Mostly	8	16.66666667
5- Definitely	35	72.91666667
Total	48	100



[CO6 - Dismantling and reassembling of any one type of braking systems.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	2	4.166666667
4- Mostly	11	22.91666667
5- Definitely	33	68.75
Total	48	100



  
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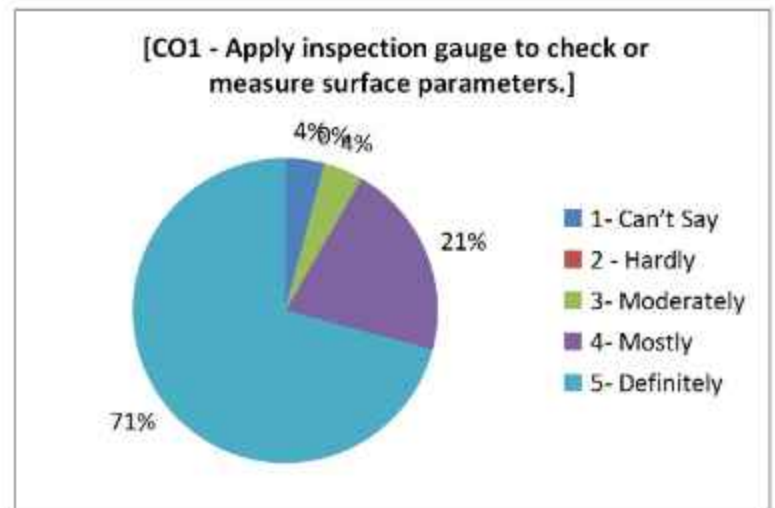
**Course Exit Analysis Report (SEM VI)**

**Subject: MEASUREMENTS & AUTOMATION  
(AESBL601)**

**Subject In-charge: Prof. Chetan Thakur**

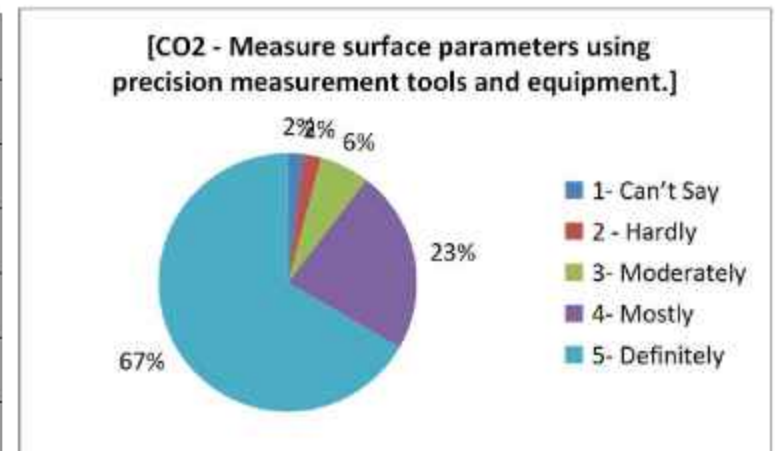
[CO1 - Apply inspection gauge to check or measure surface parameters.]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	2	4.166666667
4- Mostly	10	20.83333333
5- Definitely	34	70.83333333
Total	48	100



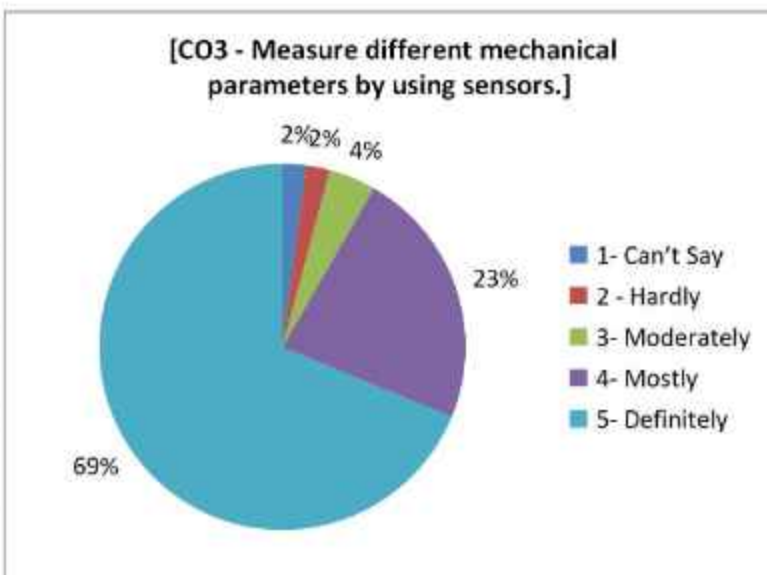
[CO2 - Measure surface parameters using precision measurement tools and equipment.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	11	22.91666667
5- Definitely	32	66.66666667
Total	48	100



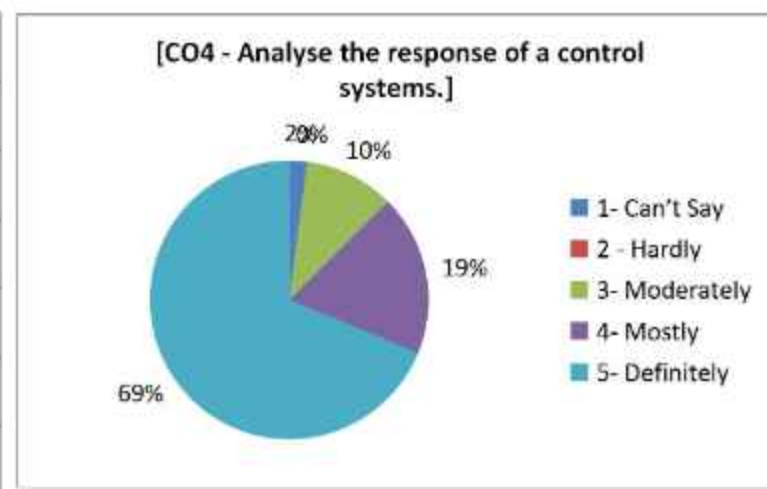
[CO3 - Measure different mechanical parameters by using sensors.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	2	4.166666667
4- Mostly	11	22.91666667
5- Definitely	33	68.75
Total	48	100



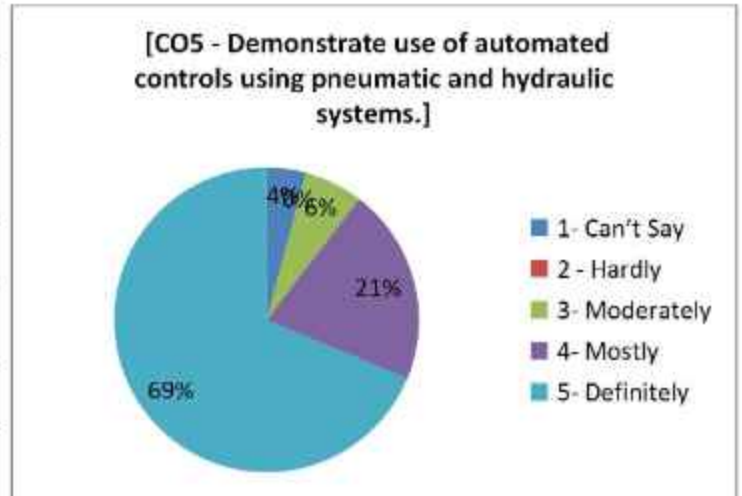
[CO4 - Analyse the response of a control systems.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	5	10.41666667
4- Mostly	9	18.75
5- Definitely	33	68.75
Total	48	100



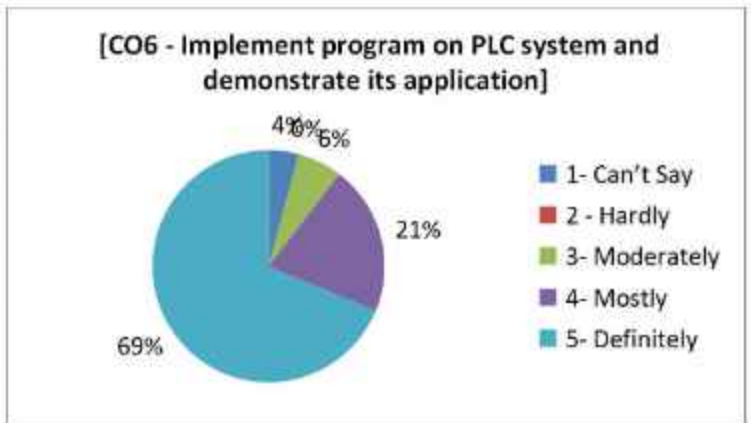
[CO5 - Demonstrate use of automated controls using pneumatic and hydraulic systems.]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	3	6.25
4- Mostly	10	20.83333333
5- Definitely	33	68.75
Total	48	100



[CO6 - Implement program on PLC system and demonstrate its application]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	3	6.25
4- Mostly	10	20.83333333
5- Definitely	33	68.75
Total	48	100



  
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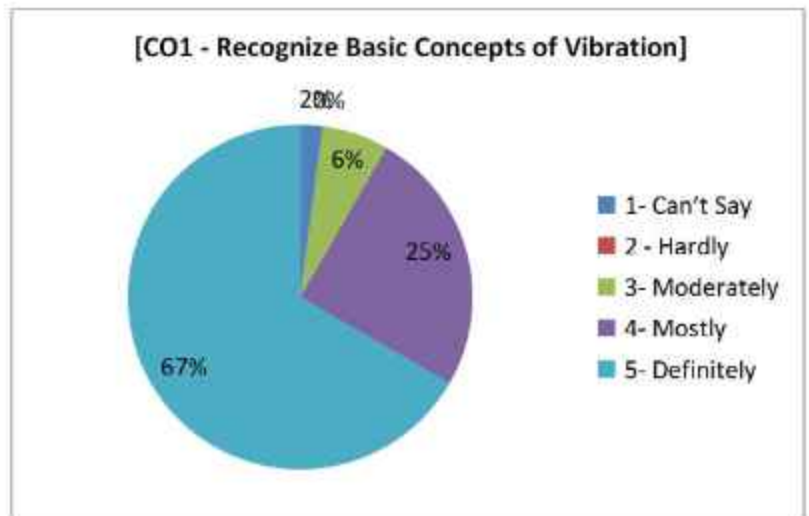
**Course Exit Analysis Report (SEM VI)**

**Subject: MECHANICAL VIBRATION (AEC602)**

**Subject In-charge: Dr. Madan Jagtap**

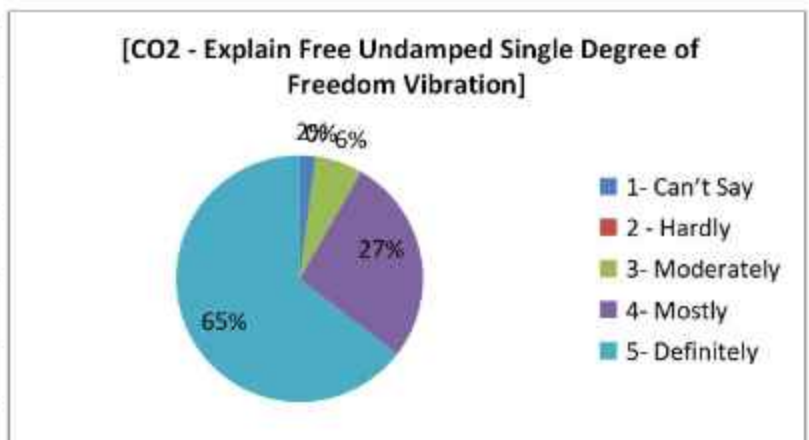
[CO1 - Recognize Basic Concepts of Vibration]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	3	6.25
4- Mostly	12	25
5- Definitely	32	66.66666667
Total	48	100



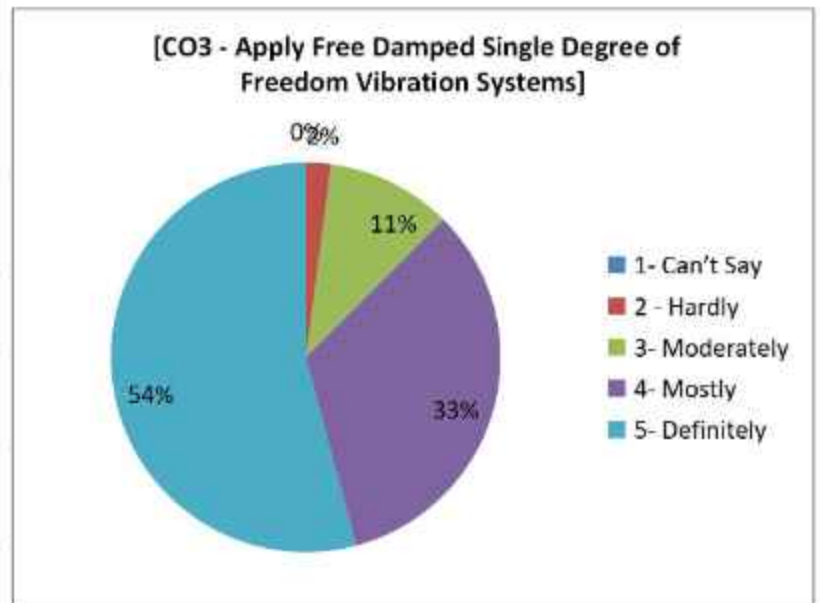
[CO2 - Explain Free Undamped Single Degree of Freedom Vibration]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	3	6.25
4- Mostly	13	27.08333333
5- Definitely	31	64.58333333
Total	48	100



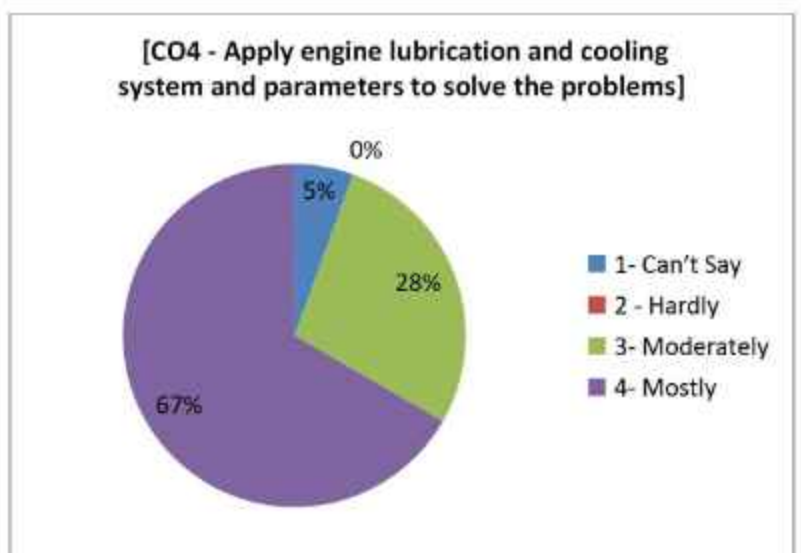
[CO3 - Apply Free Damped Single Degree of Freedom Vibration Systems]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.083333333
3- Moderately	5	10.41666667
4- Mostly	16	33.33333333
5- Definitely	26	54.16666667
Total	48	100



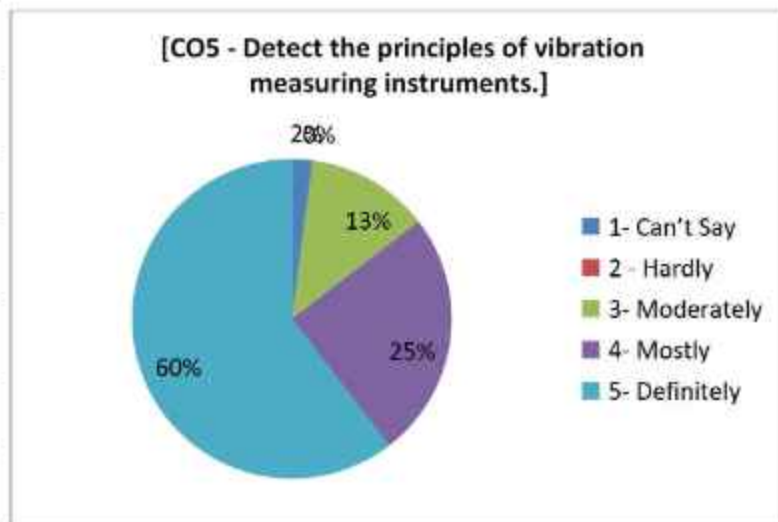
[CO4 - Apply engine lubrication and cooling system and parameters to solve the problems]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	5	10.41666667
4- Mostly	12	25
5- Definitely	30	62.5
Total	48	100



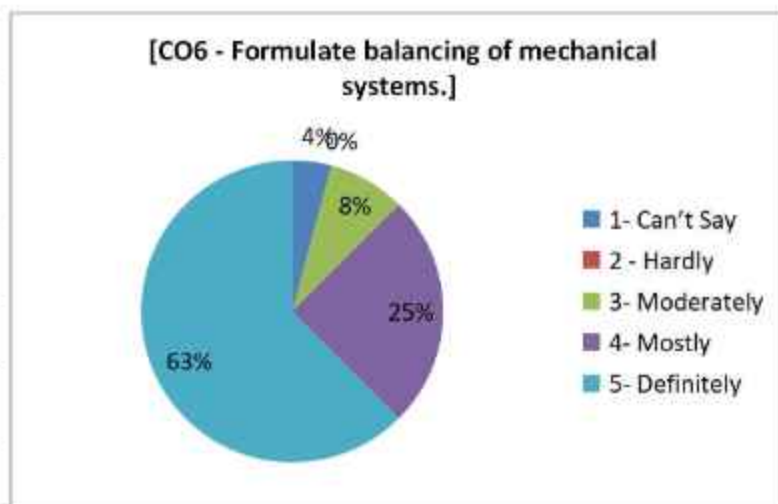
[CO5 - Detect the principles of vibration measuring instruments.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	6	12.5
4- Mostly	12	25
5- Definitely	29	60.41666667
Total	48	100



[CO6 - Formulate balancing of mechanical systems.]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	4	8.333333333
4- Mostly	12	25
5- Definitely	30	62.5
Total	48	100



  
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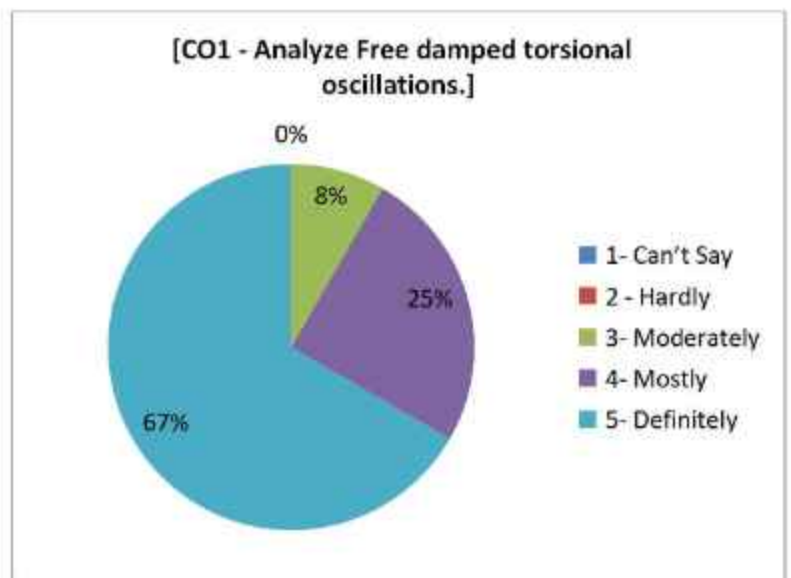
**Course Exit Analysis Report (SEM VI)**

**Subject: MECHANICAL VIBRATION (AEL602)**

**Subject In-charge: Prof. Nidhi Singh**

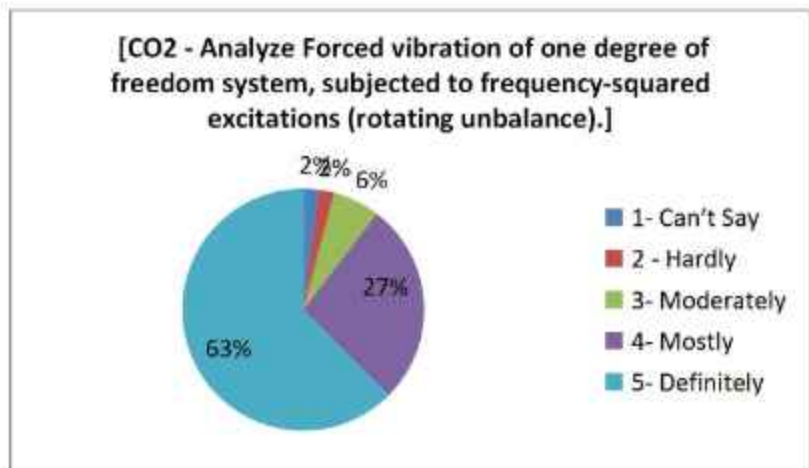
[CO1 - Analyze Free damped torsion oscillations.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	8.333333333
4- Mostly	12	25
5- Definitely	32	66.66666667
Total	48	100



[CO2 - Analyze Forced vibration of one degree of freedom system, subjected to frequency-squared excitations (rotating unbalance).]

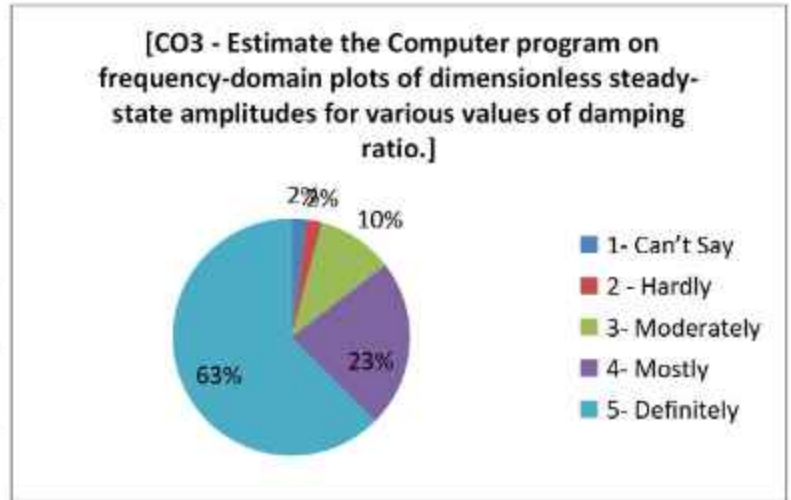
Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	13	27.08333333
5- Definitely	30	62.5
Total	48	100





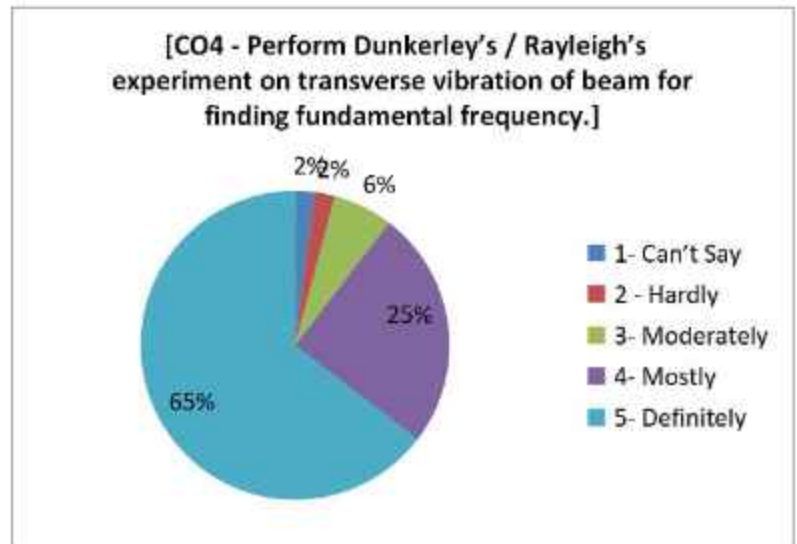
[CO3 - Estimate the Computer program on frequency-domain plots of dimensionless steady-state amplitudes for various values of damping ratio.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	5	10.41666667
4- Mostly	11	22.91666667
5- Definitely	30	62.5
Total	48	100



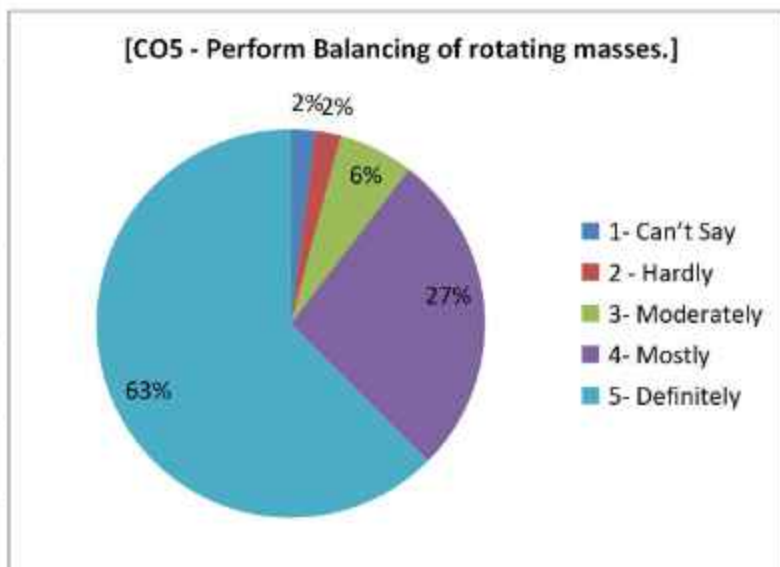
[CO4 - Perform Dunkerley's / Rayleigh's experiment on transverse vibration of beam for finding fundamental frequency.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	12	25
5- Definitely	31	64.58333333
Total	48	100



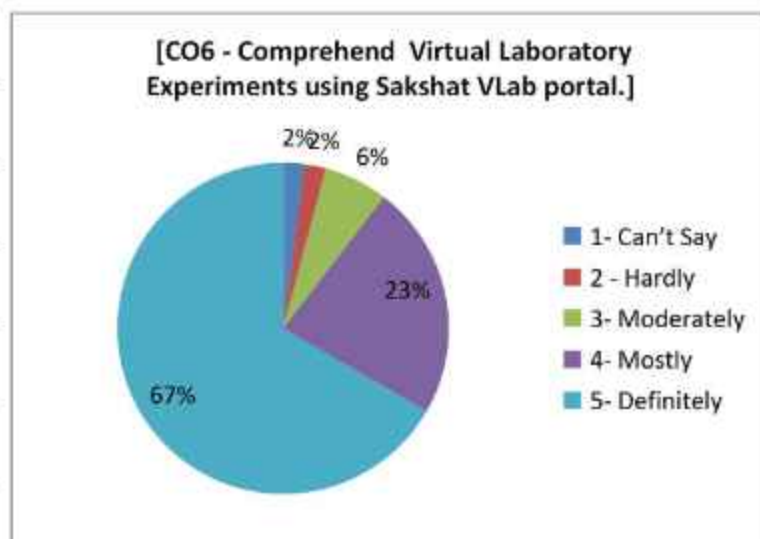
[CO5 - Perform Balancing of rotating masses.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	13	27.08333333
5- Definitely	30	62.5
Total	48	100



[CO6 - Comprehend Virtual Laboratory Experiments using SakshatVLab portal.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	11	22.91666667
5- Definitely	32	66.66666667
Total	48	100



  
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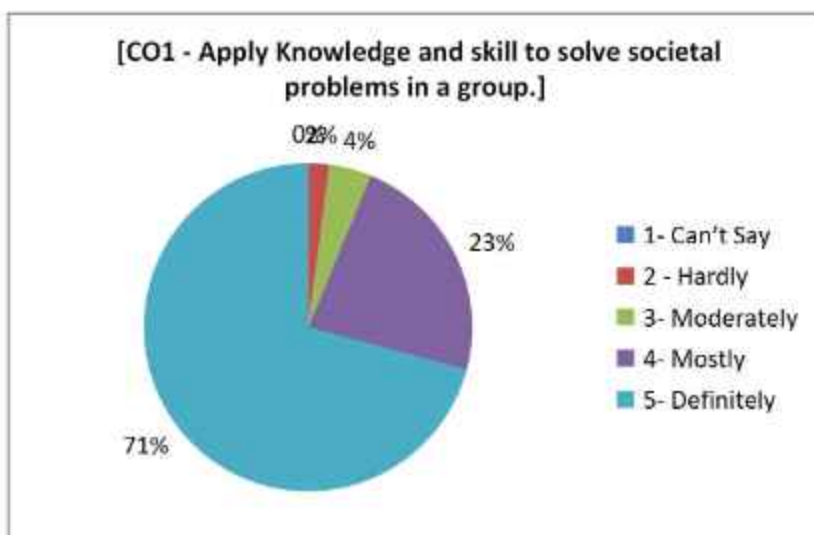
**Course Exit Analysis Report ( Sem VI)**

**Subject: MINI PROJECT - 2B (AEPBL601)**

Subject In-charge: Prof. Sagar Kadu

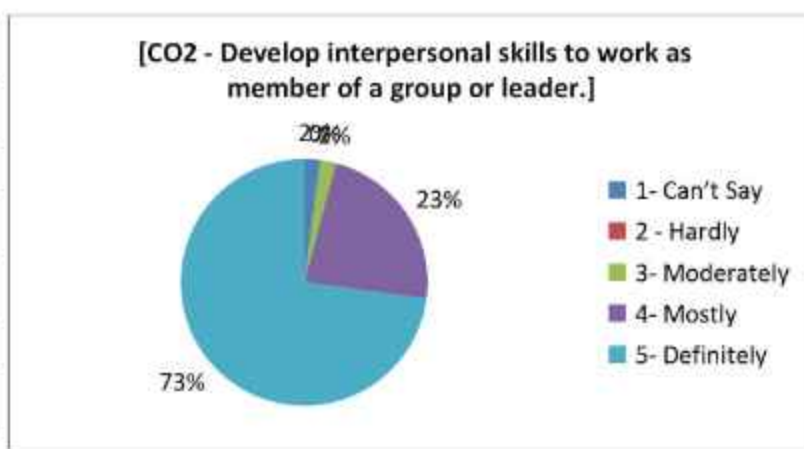
[CO1 - Apply Knowledge and skill to solve societal problems in a group.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.083333333
3- Moderately	2	4.166666667
4- Mostly	11	22.91666667
5- Definitely	34	70.83333333
<b>Total</b>	<b>48</b>	<b>100</b>



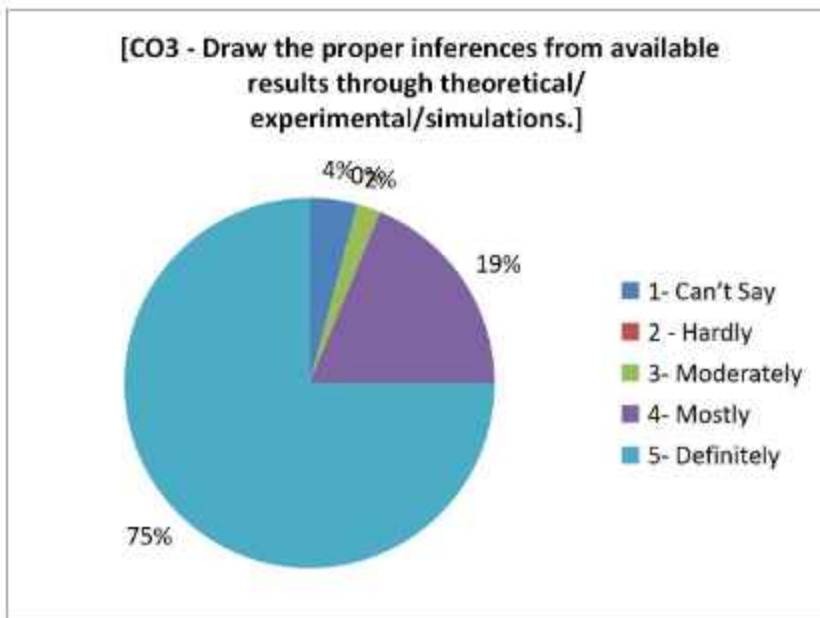
[CO2 - Develop interpersonal skills to work as member of a group or leader.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	1	2.083333333
4- Mostly	11	22.91666667
5- Definitely	35	72.91666667
<b>Total</b>	<b>48</b>	<b>100</b>



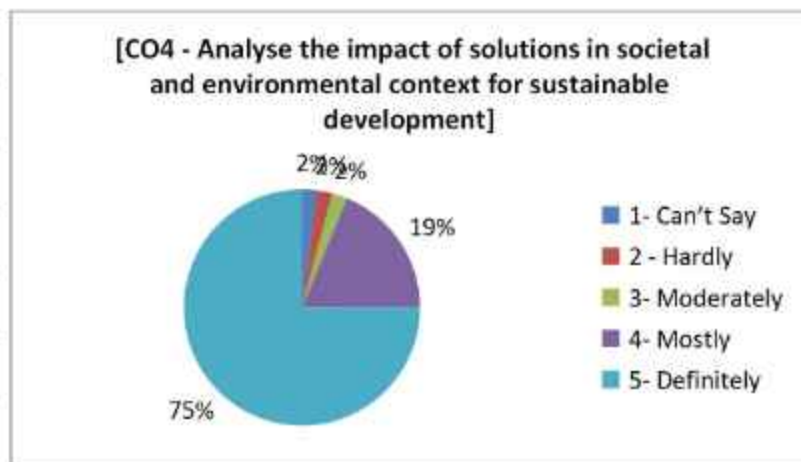
[CO3 - Draw the proper inferences from available results through theoretical/ experimental/simulations.]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	1	2.083333333
4- Mostly	9	18.75
5- Definitely	36	75
Total	48	100



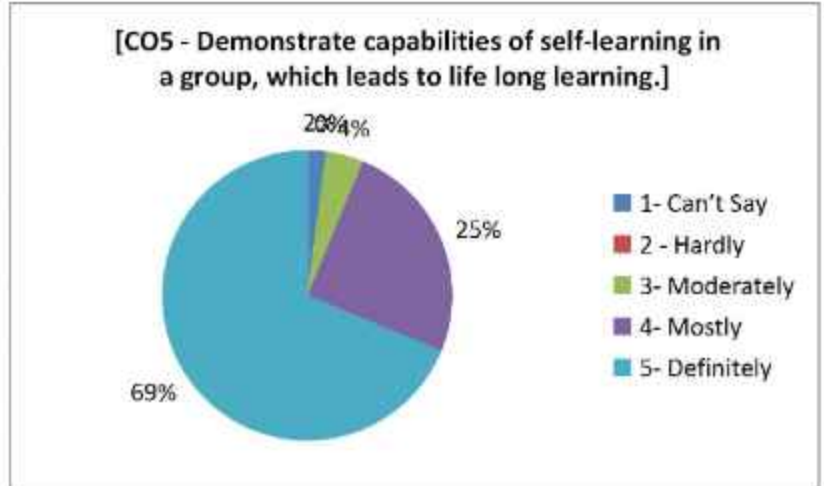
[CO4 - Analyse the impact of solutions in societal and environmental context for sustainable development]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	1	2.083333333
4- Mostly	9	18.75
5- Definitely	36	75
Total	48	100



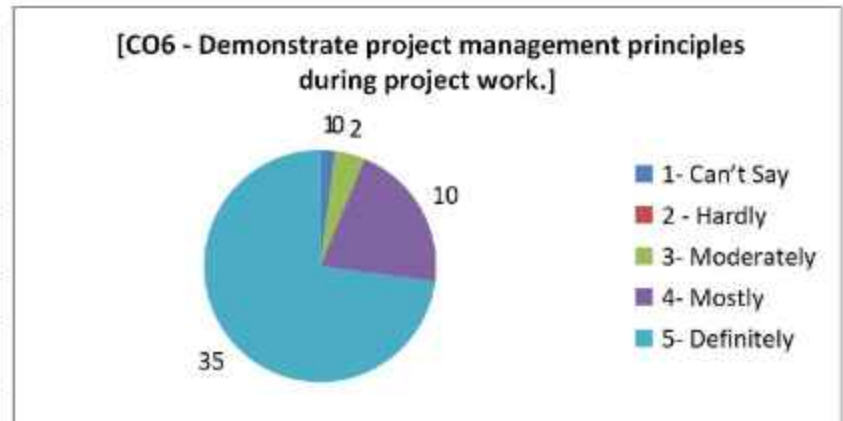
[CO5 - Demonstrate capabilities of self-learning in a group, which leads to life long learning.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	2	4.166666667
4- Mostly	12	25
5- Definitely	33	68.75
Total	48	100



[CO6 - Demonstrate project management principles during project work.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	0	0
3- Moderately	2	4.166666667
4- Mostly	10	20.83333333
5- Definitely	35	72.91666667
Total	48	100



  
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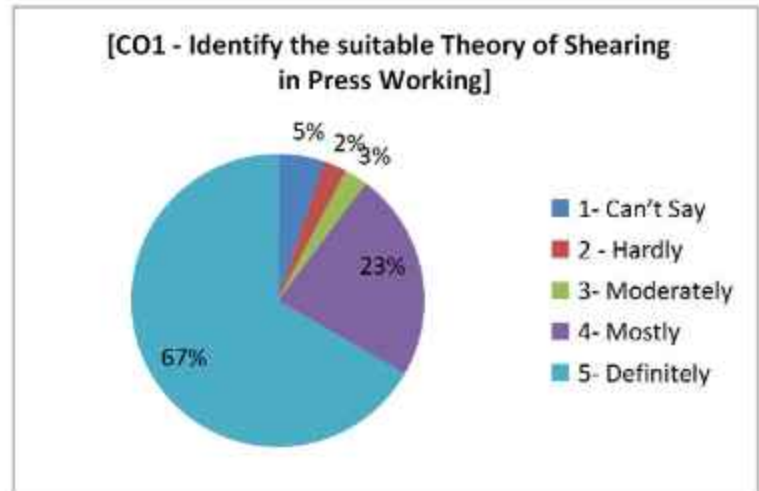
**Course Exit Analysis Report (SEM VI)**

**Subject: PRESS TOOL DESIGN (AEDLO6021)**

**Subject In-charge: Prof. T. Z. Quazi**

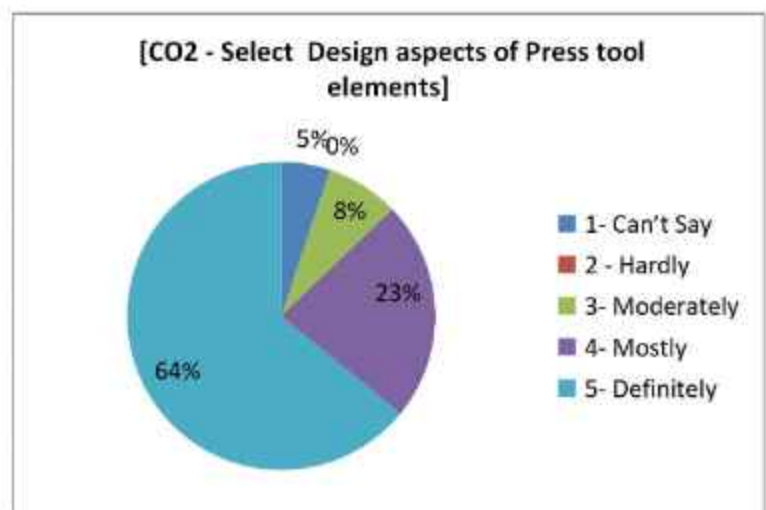
**[CO1 - Identify the suitable Theory of Shearing in Press Working]**

Score	No. of Students	Percentage
1- Can't Say	2	5.128205128
2 - Hardly	1	2.564102564
3- Moderately	1	2.564102564
4- Mostly	9	23.07692308
5- Definitely	26	66.66666667
<b>Total</b>	<b>39</b>	<b>100</b>



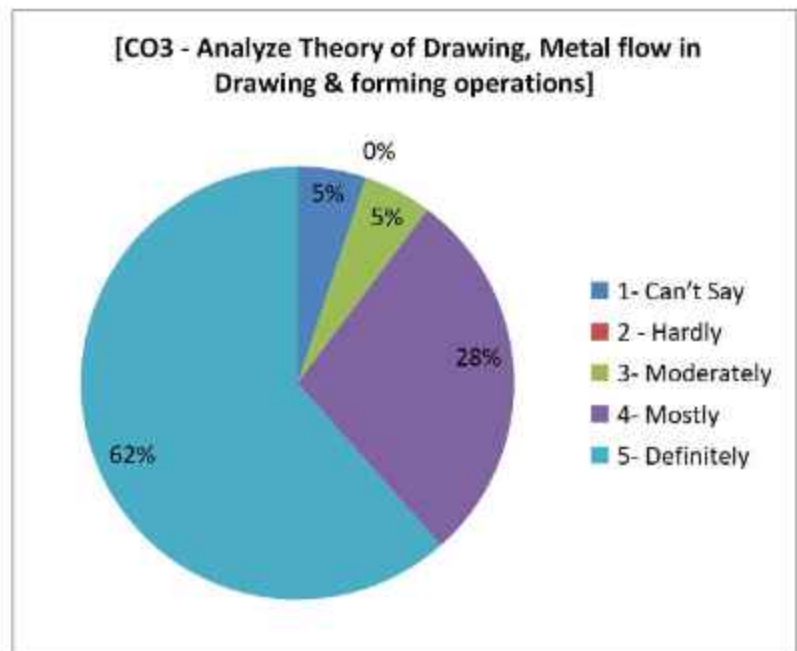
**[CO2 - Select Design aspects of Press tool elements]**

Score	No. of Students	Percentage
1- Can't Say	2	5.128205128
2 - Hardly	0	0
3- Moderately	3	7.692307692
4- Mostly	9	23.07692308
5- Definitely	25	64.1025641
<b>Total</b>	<b>39</b>	<b>100</b>



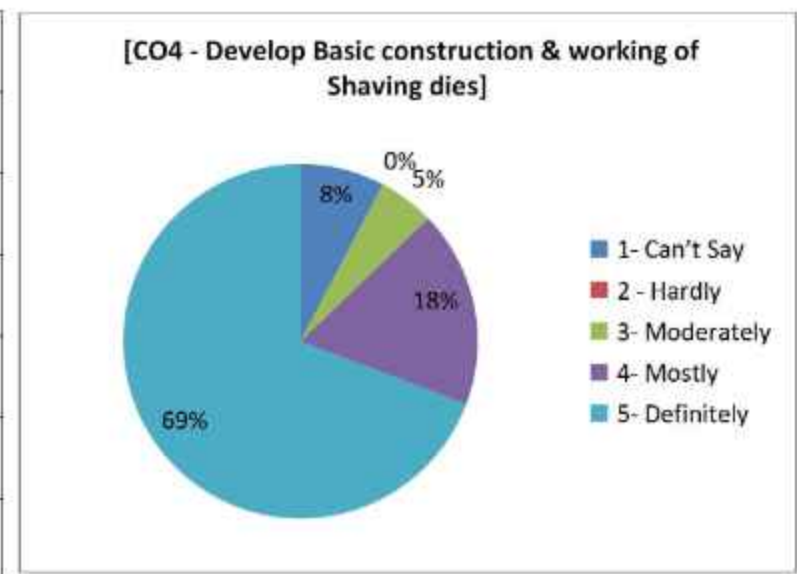
[CO3 - Analyze Theory of Drawing, Metal flow in Drawing & forming operations]

Score	No. of Students	Percentage
1- Can't Say	2	5.128205128
2 - Hardly	0	0
3- Moderately	2	5.128205128
4- Mostly	11	28.20512821
5- Definitely	24	61.53846154
Total	39	100



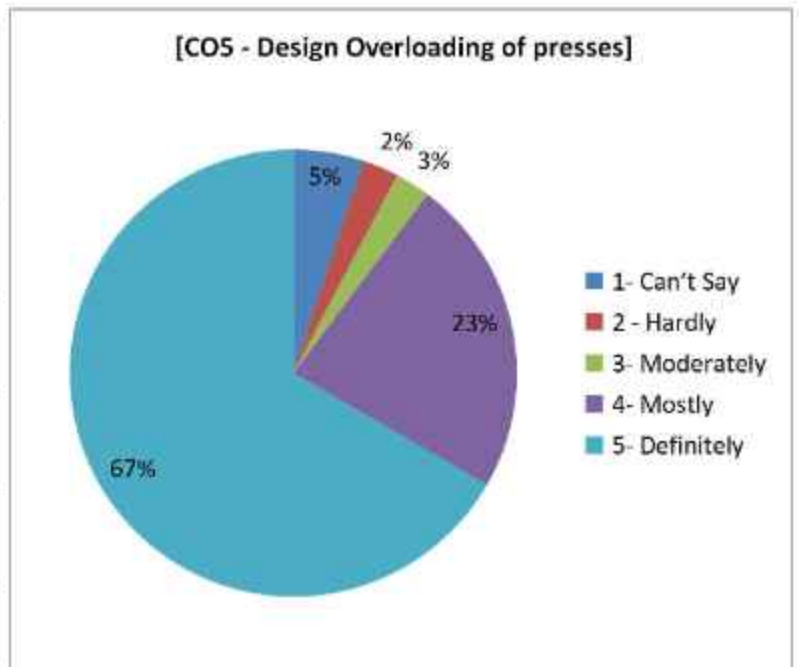
[CO4 - Develop Basic construction & working of Shaving dies]

Score	No. of Students	Percentage
1- Can't Say	3	7.692307692
2 - Hardly	0	0
3- Moderately	2	5.128205128
4- Mostly	7	17.94871795
5- Definitely	27	69.23076923
Total	39	100



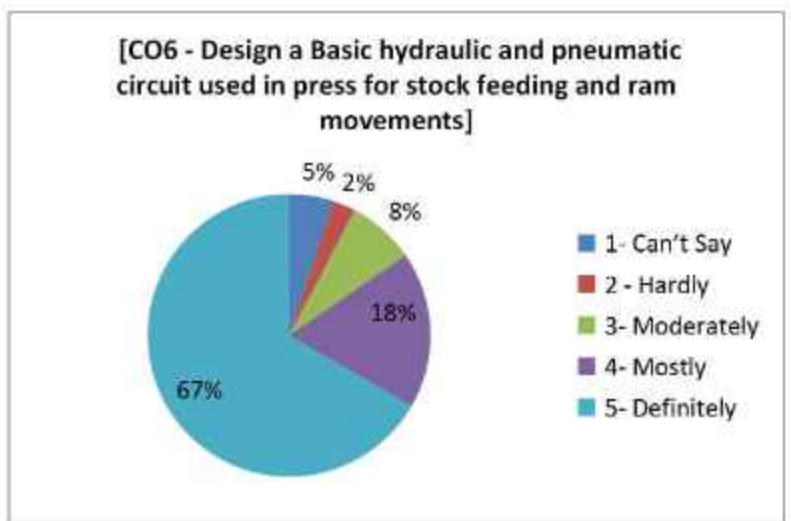
[CO5 - Design Overloading of presses]

Score	No. of Students	Percentage
1- Can't Say	2	5.128205128
2 - Hardly	1	2.564102564
3- Moderately	1	2.564102564
4- Mostly	9	23.07692308
5- Definitely	26	66.66666667
Total	39	100



[CO6 - Design a Basic hydraulic and pneumatic circuit used in press for stock feeding and ram movements]

Score	No. of Students	Percentage
1- Can't Say	2	5.128205128
2 - Hardly	1	2.564102564
3- Moderately	3	7.692307692
4- Mostly	7	17.94871795
5- Definitely	26	66.66666667
Total	39	100



  
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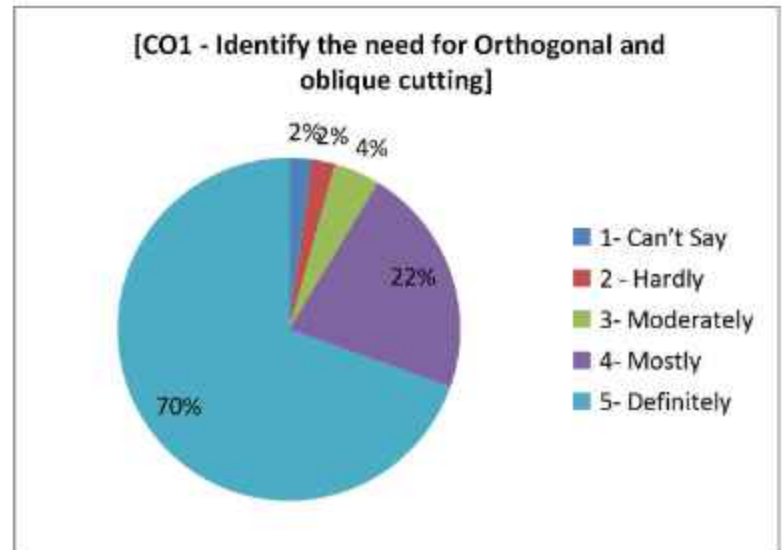
**Course Exit Analysis Report ( Sem VI)**

**Subject: TOOL ENGINEERING (AEDLO6022)**

Subject In-charge: Prof. T.Z. QUAZI

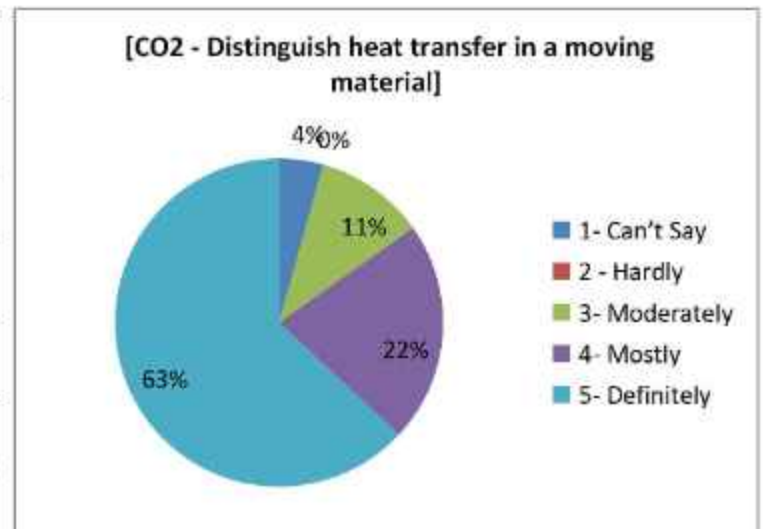
[CO1 - Identify the need for Orthogonal and oblique cutting]

Score	No. of Students	Percentage
1- Can't Say	1	2.173913043
2 - Hardly	1	2.173913043
3- Moderately	2	4.347826087
4- Mostly	10	21.73913043
5- Definitely	32	69.56521739
<b>Total</b>	<b>46</b>	<b>100</b>



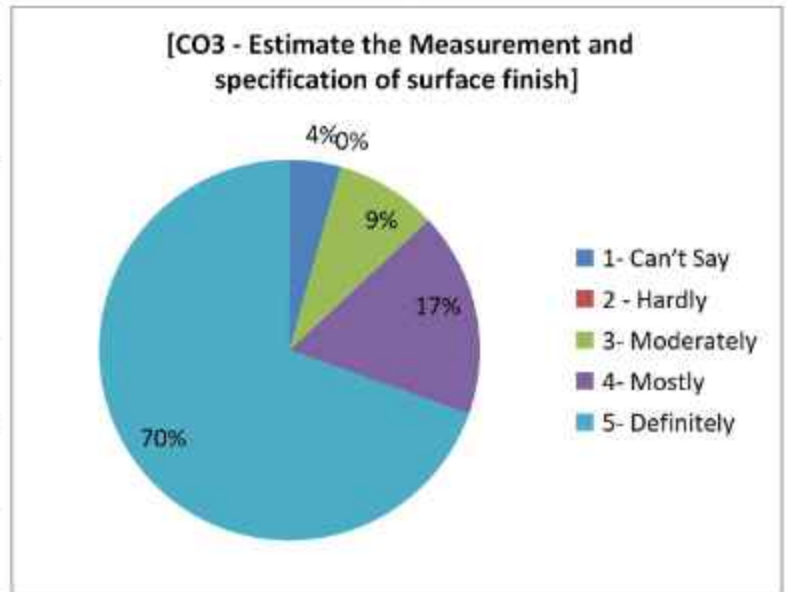
[CO2 - Distinguish heat transfer in a moving material]

Score	No. of Students	Percentage
1- Can't Say	2	4.347826087
2 - Hardly	0	0
3- Moderately	5	10.86956522
4- Mostly	10	21.73913043
5- Definitely	29	63.04347826
<b>Total</b>	<b>46</b>	<b>100</b>



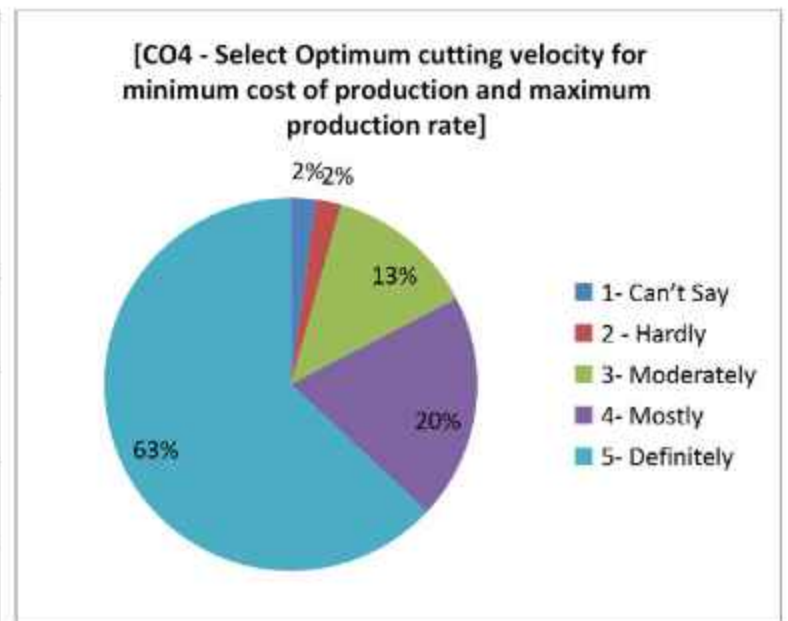
[CO3 - Estimate the Measurement and specification of surface finish]

Score	No. of Students	Percentage
1- Can't Say	2	4.347826087
2 - Hardly	0	0
3- Moderately	4	8.695652174
4- Mostly	8	17.39130435
5- Definitely	32	69.56521739
Total	46	100



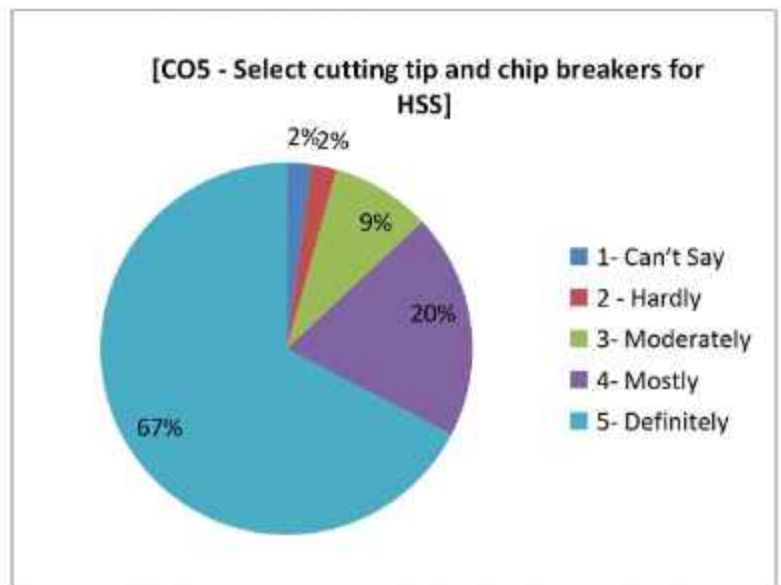
[CO4 - Select Optimum cutting velocity for minimum cost of production and maximum production rate]

Score	No. of Students	Percentage
1- Can't Say	1	2.173913043
2 - Hardly	1	2.173913043
3- Moderately	6	13.04347826
4- Mostly	9	19.56521739
5- Definitely	29	63.04347826
Total	46	100



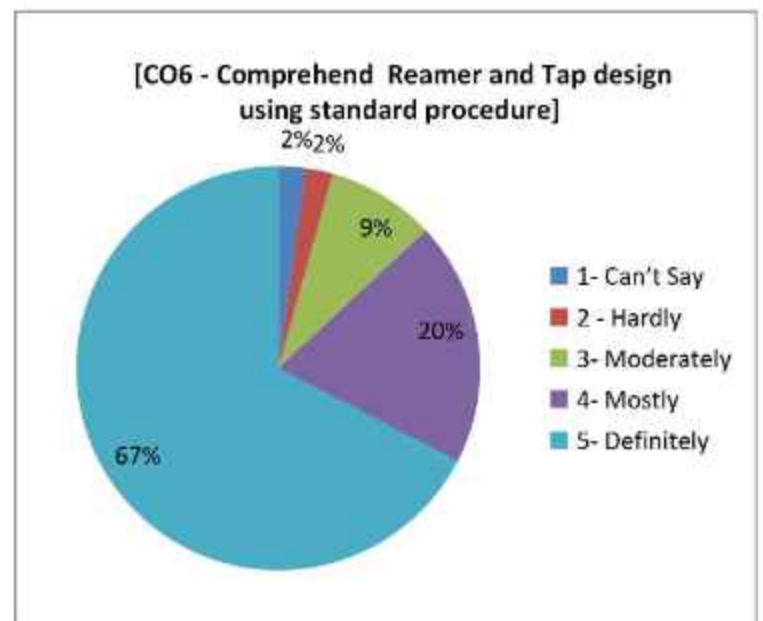
[CO5 - Select cutting tip and chip breakers for HSS]

Score	No. of Students	Percentage
1- Can't Say	1	2.173913043
2 - Hardly	1	2.173913043
3- Moderately	4	8.695652174
4- Mostly	9	19.56521739
5- Definitely	31	67.39130435
Total	46	100



[CO6 - Comprehend Reamer and Tap design using standard procedure]

Score	No. of Students	Percentage
1- Can't Say	1	2.173913043
2 - Hardly	1	2.173913043
3- Moderately	4	8.695652174
4- Mostly	9	19.56521739
5- Definitely	31	67.39130435
Total	46	100



  
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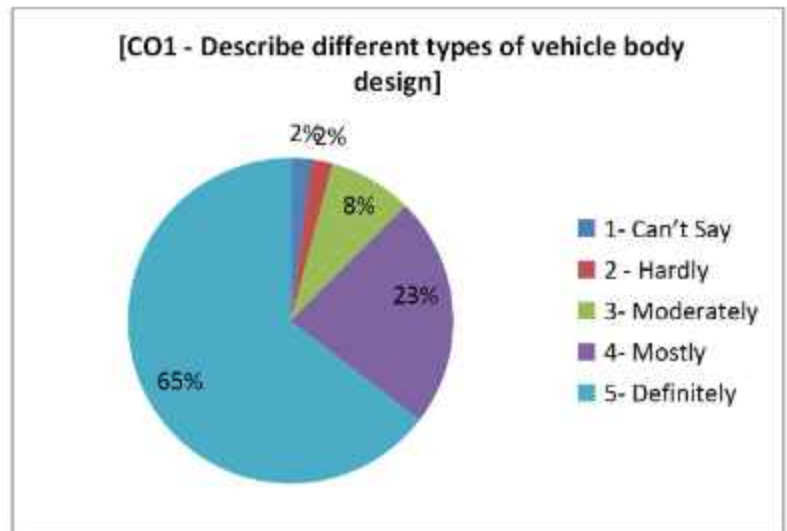
**Course Exit Analysis Report (SEM VI)**

**Subject: VEHICLE BODY ENGINEERING & SAFETY (AEC603)**

**Subject In-charge: Dr. Vishnudas Chodankar**

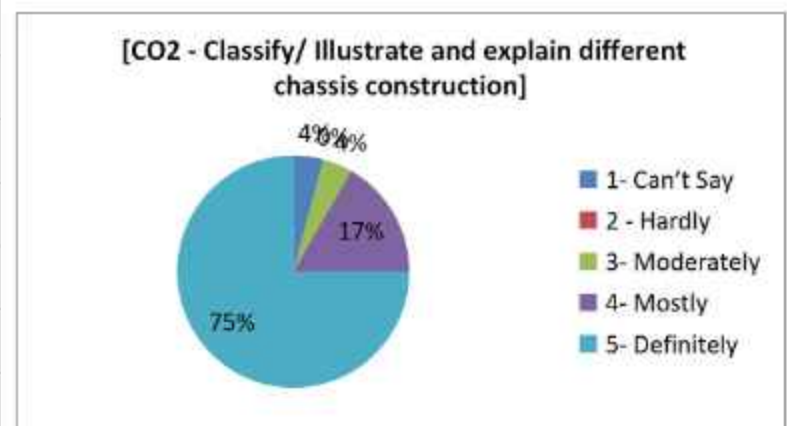
[CO1 - Describe different types of vehicle body design]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	4	8.333333333
4- Mostly	11	22.91666667
5- Definitely	31	64.58333333
<b>Total</b>	<b>48</b>	<b>100</b>



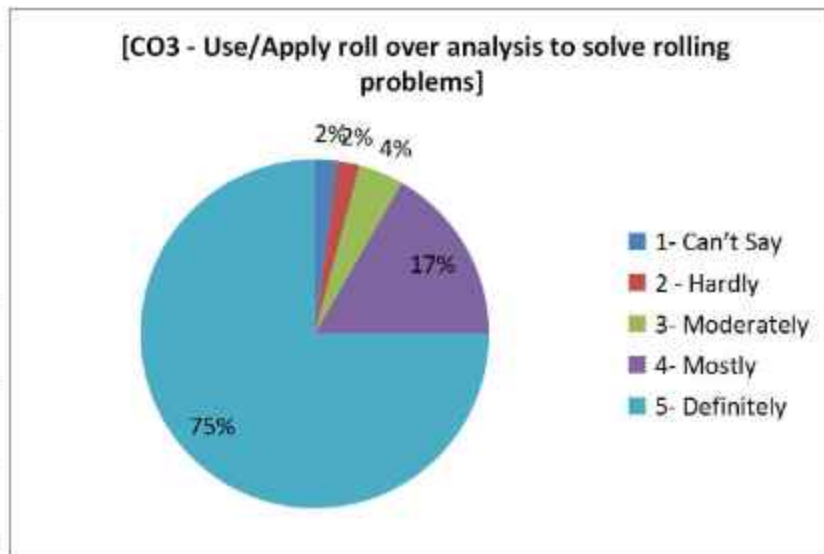
[CO2 - Classify/ Illustrate and explain different chassis construction]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	2	4.166666667
4- Mostly	8	16.66666667
5- Definitely	36	75
<b>Total</b>	<b>48</b>	<b>100</b>



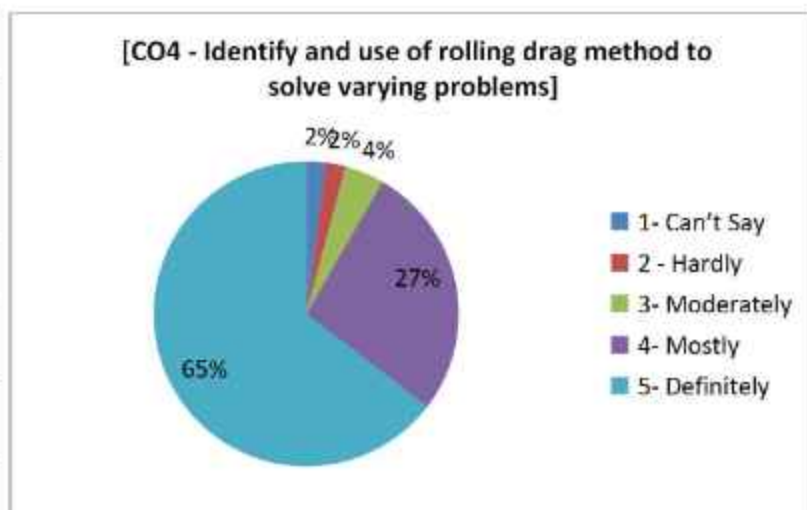
[CO3 - Use/Apply roll over analysis to solve rolling problems]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	2	4.166666667
4- Mostly	8	16.66666667
5- Definitely	36	75
Total	48	100



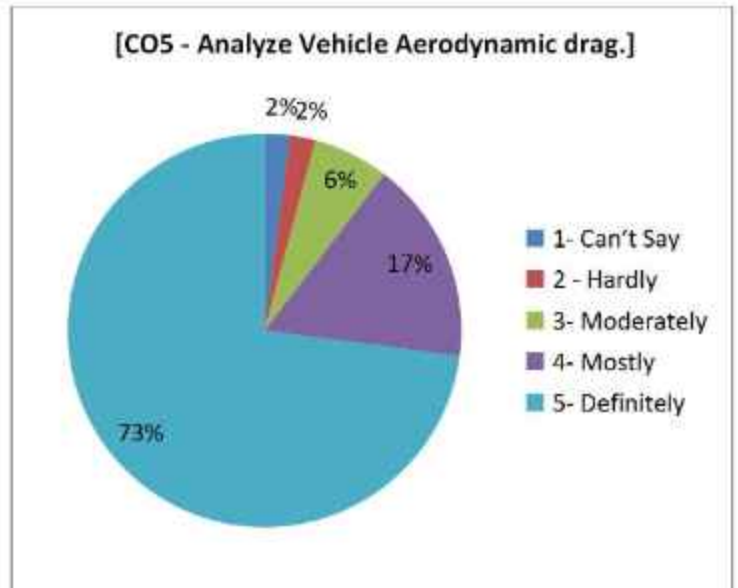
[CO4 - Identify and use of rolling drag method to solve varying problems]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	2	4.166666667
4- Mostly	13	27.08333333
5- Definitely	31	64.58333333
Total	48	100



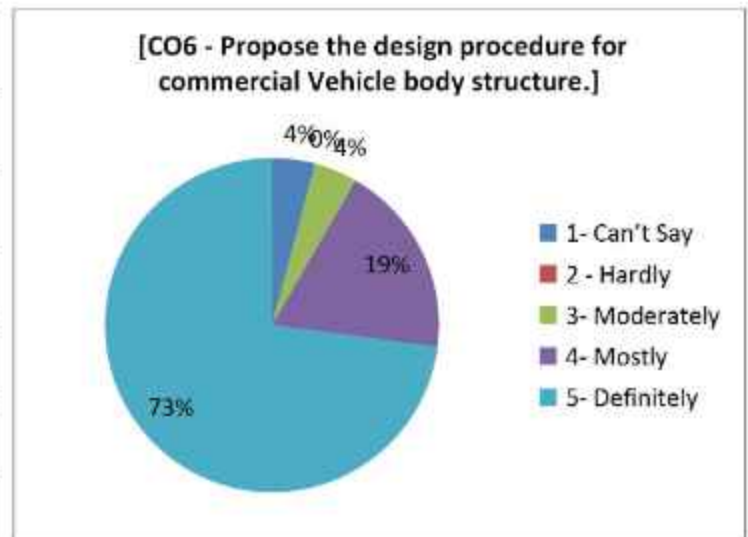
[CO5 - Analyze Vehicle Aerodynamic drag.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	8	16.66666667
5- Definitely	35	72.91666667
Total	48	100



[CO6 - Propose the design procedure for commercial Vehicle body structure.]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	2	4.166666667
4- Mostly	9	18.75
5- Definitely	35	72.91666667
Total	48	100



  
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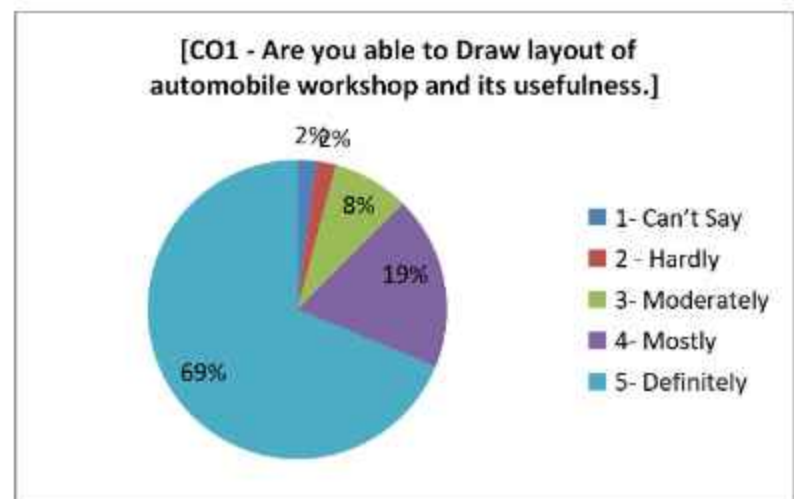
**Course Exit Analysis Report (SEM VI)**

**Subject: VEHICLE BODY ENGINEERING &  
SAFETY (AEL603)**

**Subject In-charge: Prof. Namrata Bhokare**

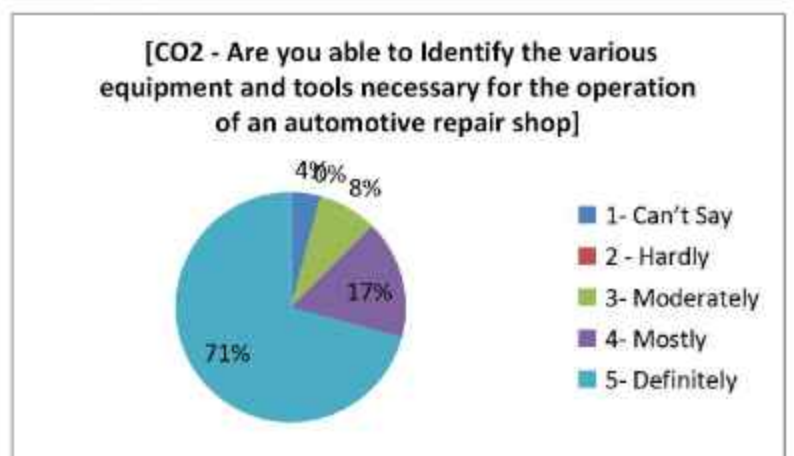
[CO1 - Are you able to Draw layout of automobile workshop and its usefulness.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	4	8.333333333
4- Mostly	9	18.75
5- Definitely	33	68.75
<b>Total</b>	<b>48</b>	<b>100</b>



[CO2 - Are you able to Identify the various equipment and tools necessary for the operation of an automotive repair shop]

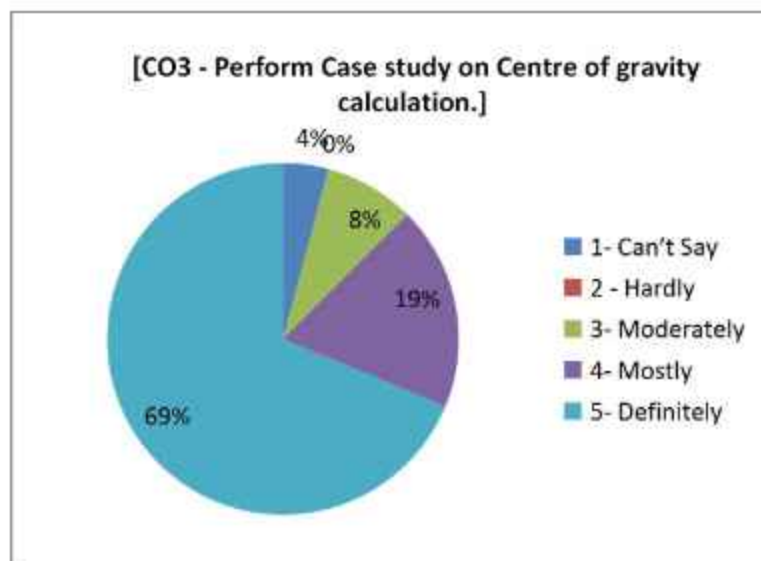
Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	4	8.333333333
4- Mostly	8	16.66666667
5- Definitely	34	70.83333333
<b>Total</b>	<b>48</b>	<b>100</b>





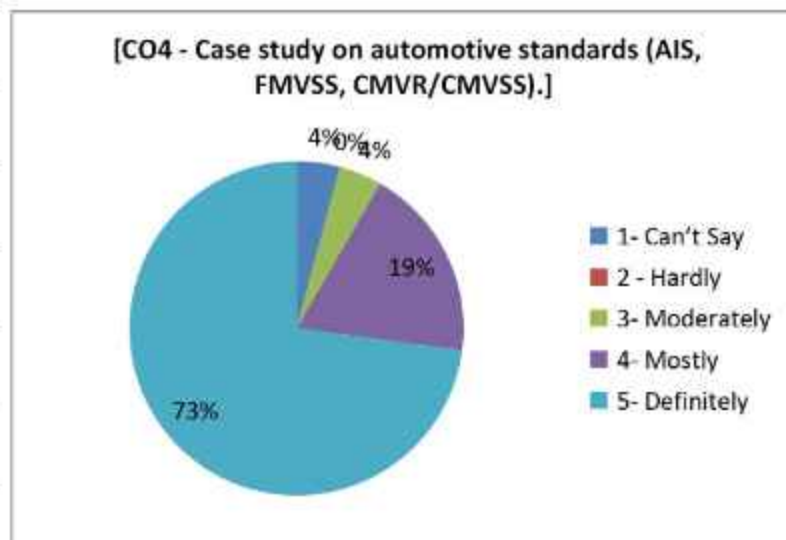
[CO3 - Perform Case study on Centre of gravity calculation.]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	4	8.333333333
4- Mostly	9	18.75
5- Definitely	33	68.75
Total	48	100



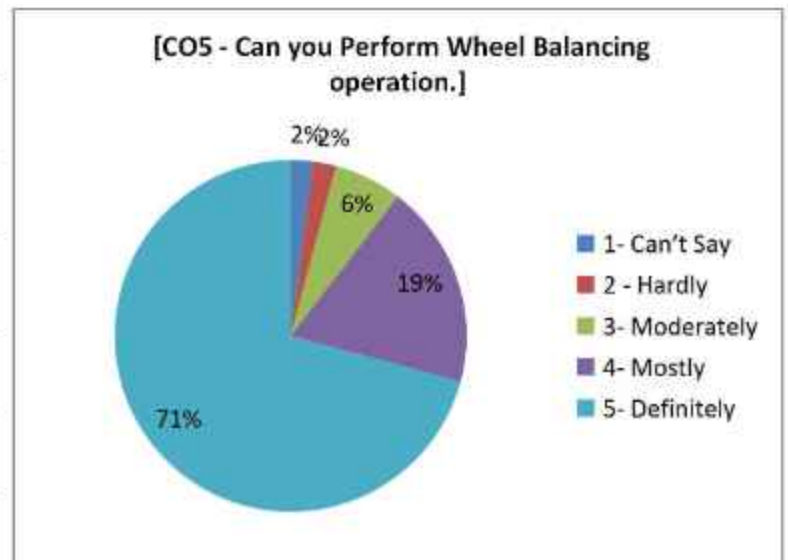
[CO4 - Case study on automotive standards (AIS, FMVSS, CMVR/CMVSS).]

Score	No. of Students	Percentage
1- Can't Say	2	4.166666667
2 - Hardly	0	0
3- Moderately	2	4.166666667
4- Mostly	9	18.75
5- Definitely	35	72.91666667
Total	48	100



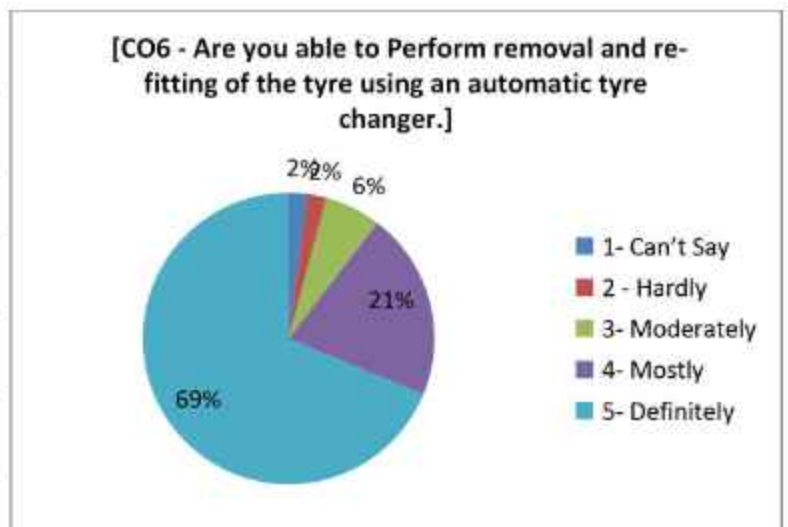
[CO5 - Can you Perform Wheel Balancing operation.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	9	18.75
5- Definitely	34	70.83333333
Total	48	100



[CO6 - Are you able to Perform removal and re-fitting of the tyre using an automatic tyre changer.]

Score	No. of Students	Percentage
1- Can't Say	1	2.083333333
2 - Hardly	1	2.083333333
3- Moderately	3	6.25
4- Mostly	10	20.83333333
5- Definitely	33	68.75
Total	48	100



  
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5	Press tool Design	Prof. Quazi T.Z.	Detailed information about method of reducing cutting forces needed	Notes shared and NPTEL link is provided to students:  <a href="https://www.youtube.com/watch?v=rx2WEngdGMc">https://www.youtube.com/watch?v=rx2WEngdGMc</a>  <a href="https://d2t1xqejof9utc.cloudfront.net/files/43306/03%20CUTTING%20FORCES.pdf?1409934366">https://d2t1xqejof9utc.cloudfront.net/files/43306/03%20CUTTING%20FORCES.pdf?1409934366</a>
6	Tool DESIGN	Prof. P.D.Ingle	Students requested extra notes on topic design of single point cutting tools	Notes were given on the topic <a href="https://www.nitc.ac.in/dept/me/jagadeesha/TOOL_DESIGN&amp;ENGINEERING/CHAPTER2.pdf">https://www.nitc.ac.in/dept/me/jagadeesha/TOOL_DESIGN&amp;ENGINEERING/CHAPTER2.pdf</a>

  
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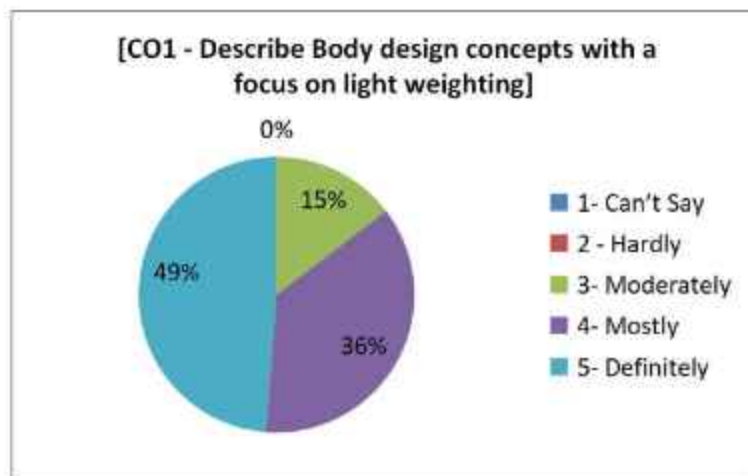
**Course Exit Analysis Report ( Sem VIII)**

**Subject: AUTOMOTIV MATERIALS  
(AEDLO8051)**

**Subject In-charge: Prof. T. Z. Quazi**

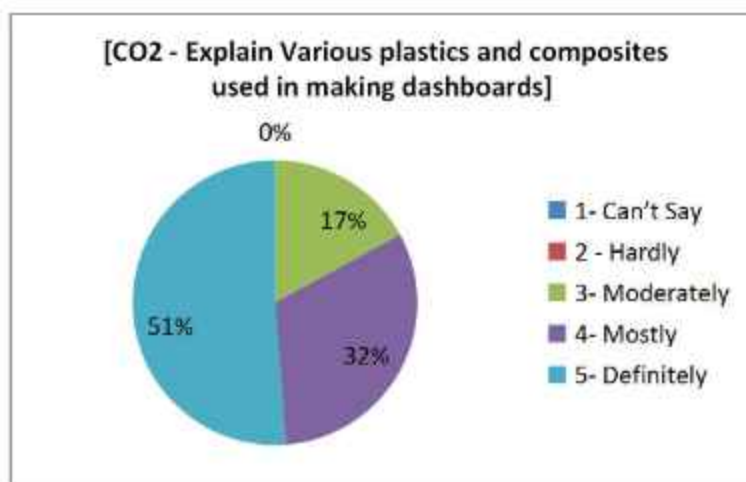
[CO1 - Describe Body design concepts with a focus on light weighting]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	14.63414634
4- Mostly	15	36.58536585
5- Definitely	20	48.7804878
Total	41	100



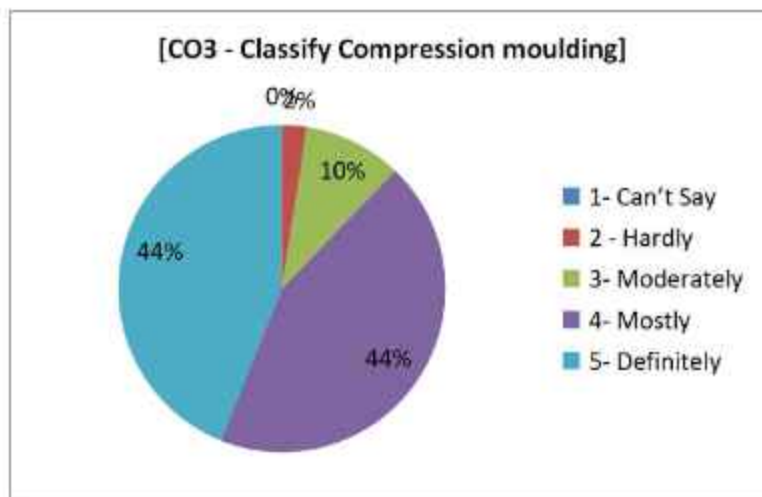
[CO2 - Explain Various plastics and composites used in making dashboards]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	7	17.07317073
4- Mostly	13	31.70731707
5- Definitely	21	51.2195122
Total	41	100



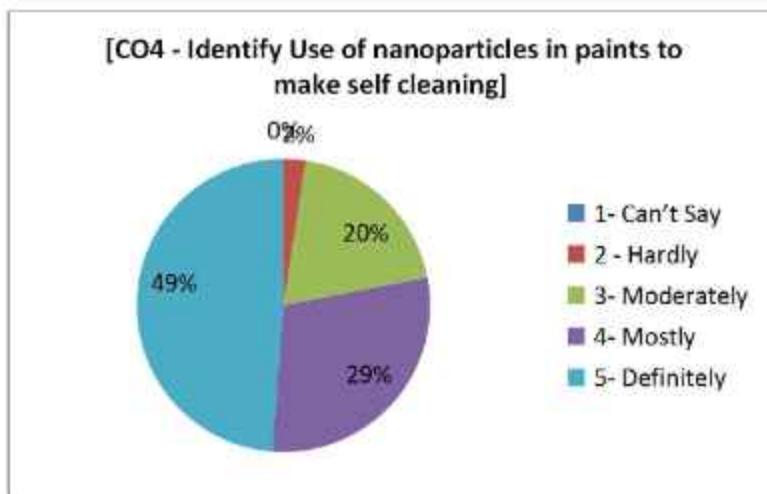
[CO3 - Classify Compression moulding]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.43902439
3- Moderately	4	9.756097561
4- Mostly	18	43.90243902
5- Definitely	18	43.90243902
Total	41	100



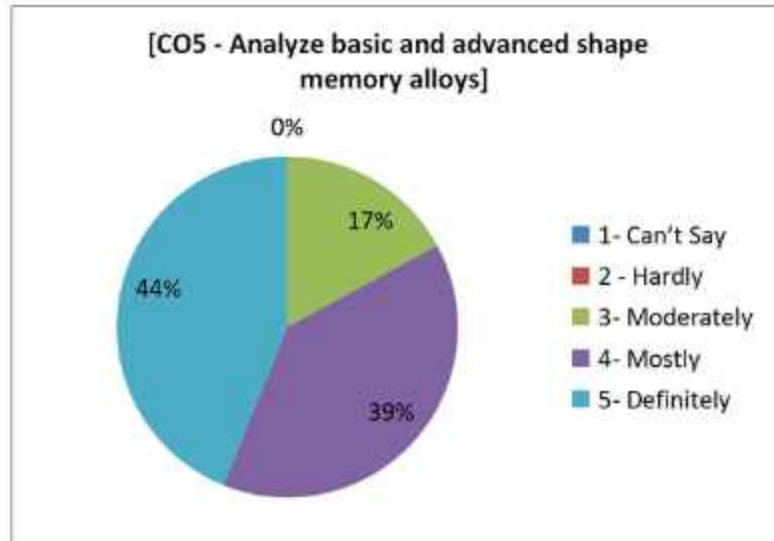
[CO4 - Identify Use of nanoparticles in paints to make self cleaning]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.43902439
3- Moderately	8	19.51219512
4- Mostly	12	29.26829268
5- Definitely	20	48.7804878
Total	41	100



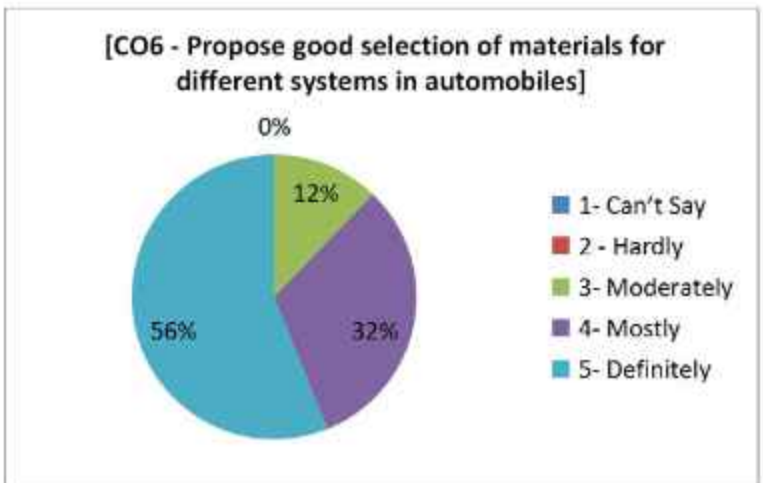
[CO5 - Analyze basic and advanced shape memory alloys]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	7	17.07317073
4- Mostly	16	39.02439024
5- Definitely	18	43.90243902
Total	41	100



[CO6 - Propose good selection of materials for different systems in automobiles]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	13	31.70731707
5- Definitely	23	56.09756098
Total	41	100



  
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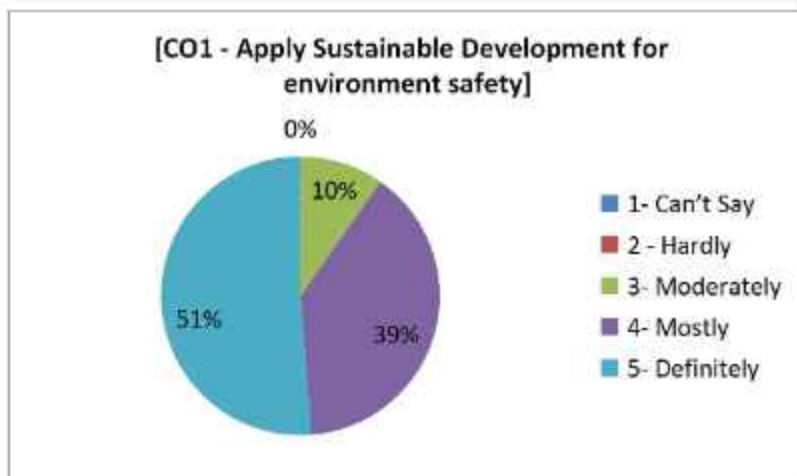
**Course Exit Analysis Report ( Sem VIII)**

**Subject: ENVIROMENTAL MANAGEMENT  
 (ILO8029)**

**Subject In-charge: Prof.DeepikaPatil**

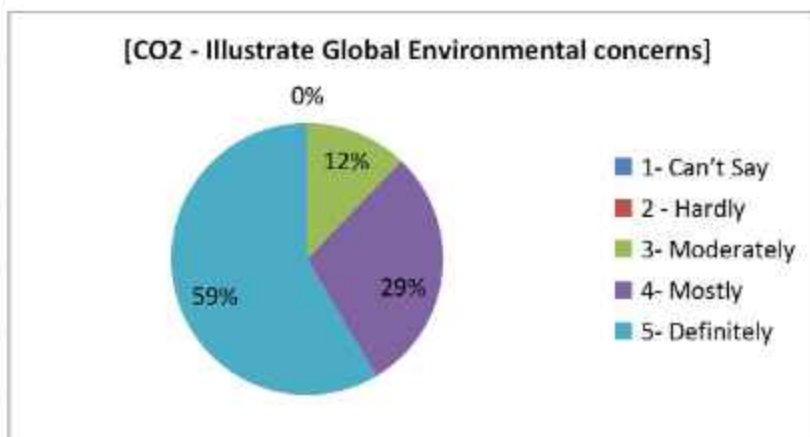
[CO1 - Apply Sustainable Development for environment safety]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	16	39.02439024
5- Definitely	21	51.2195122
Total	41	100



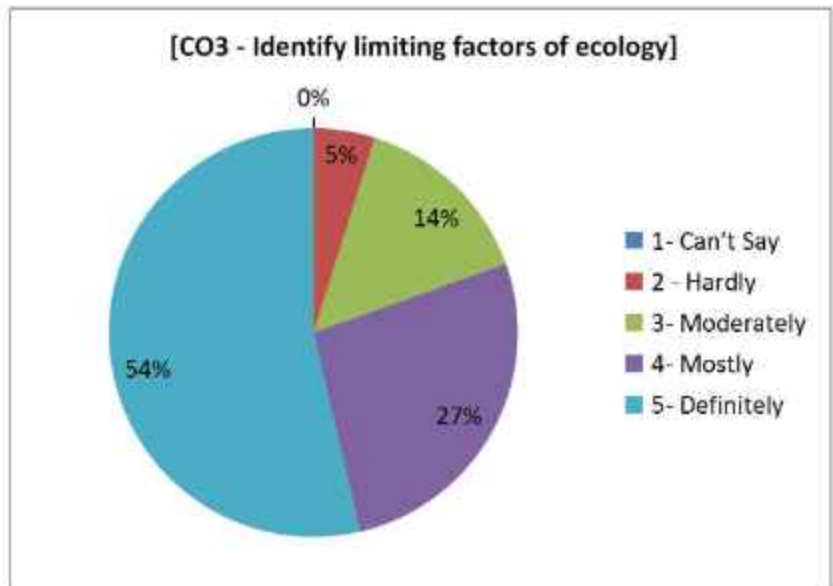
[CO2 - Illustrate Global Environmental concerns]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	12	29.26829268
5- Definitely	24	58.53658537
Total	41	100



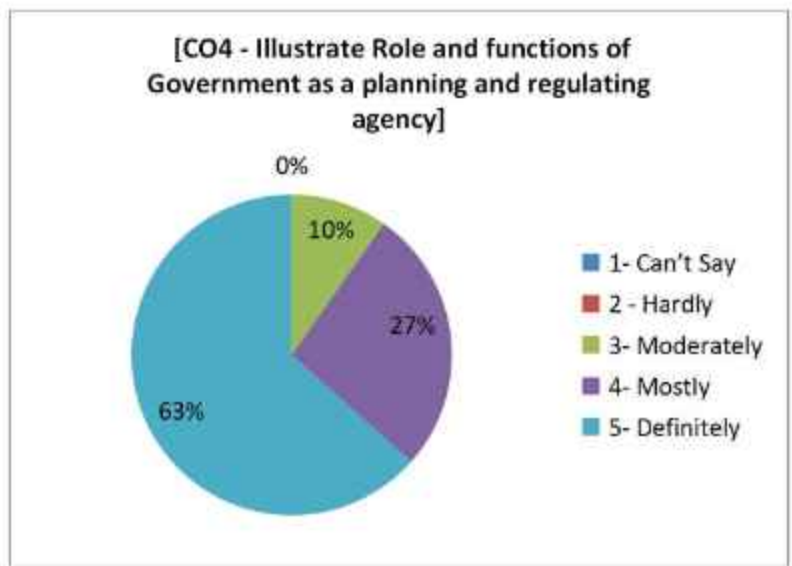
[CO3 - Identify limiting factors of ecology]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	2	4.87804878
3- Moderately	6	14.63414634
4- Mostly	11	26.82926829
5- Definitely	22	53.65853659
Total	41	100



[CO4 - Illustrate Role and functions of Government as a planning and regulating agency]

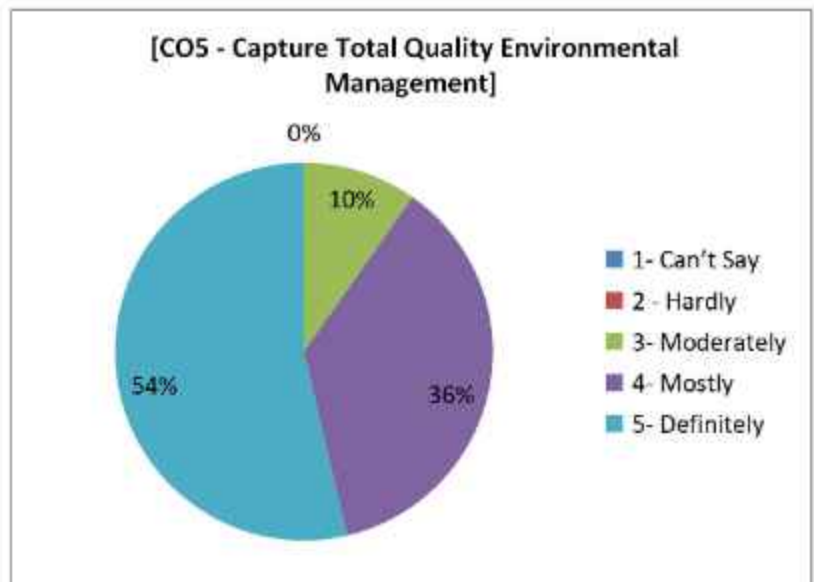
Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	11	26.82926829
5- Definitely	26	63.41463415
Total	41	100





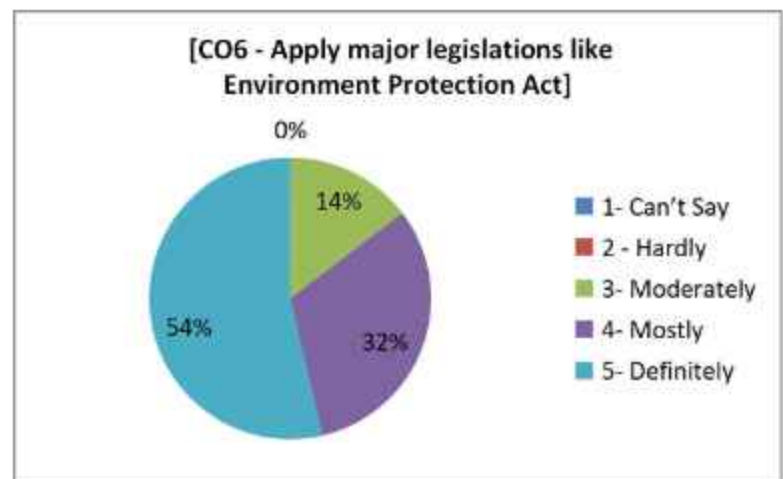
[CO5 - Capture Total Quality Environmental Management]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	15	36.58536585
5- Definitely	22	53.65853659
Total	41	100



[CO6 - Apply major legislations like Environment Protection Act]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	14.63414634
4- Mostly	13	31.70731707
5- Definitely	22	53.65853659
Total	41	100



  
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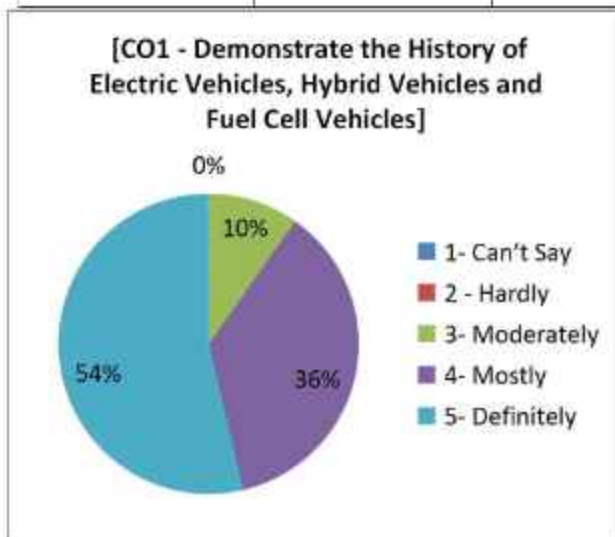
**Course Exit Analysis Report (Sem VIII)**

**Subject: HYBRID & ELECTRIC VEHICLE  
(ACE801)**

**Subject In-charge: Prof. Chetan Thakur**

[CO1 - Demonstrate the History of Electric Vehicles

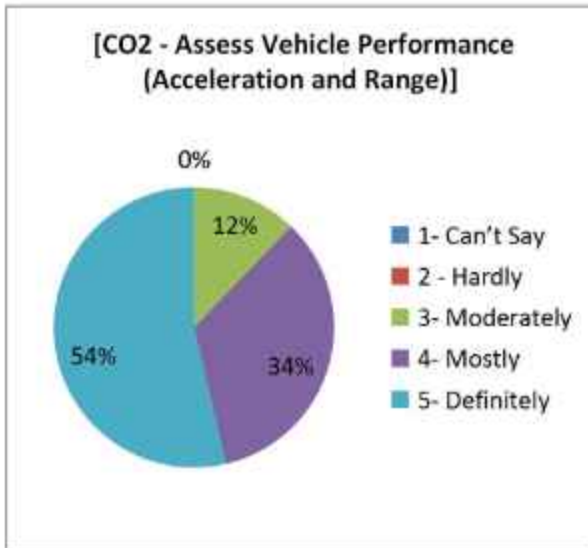
Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	15	36.58536585
5- Definitely	22	53.65853659
Total	41	100



CO2 - Assess Vehicle Performance (Acceleration and Range)]

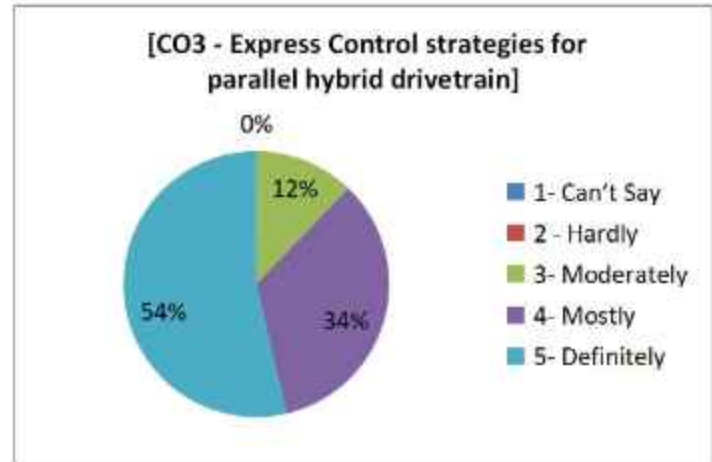
Score	No. of Students	Percentage
-------	-----------------	------------

1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	14	34.14634146
5- Definitely	22	53.65853659
Total	41	100



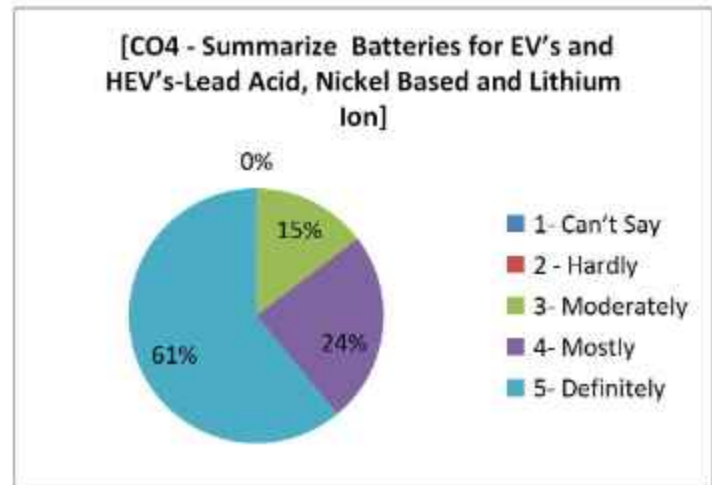
[CO3 - Express Control strategies for parallel hybrid drivetrain]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	14	34.14634146
5- Definitely	22	53.65853659
Total	41	100



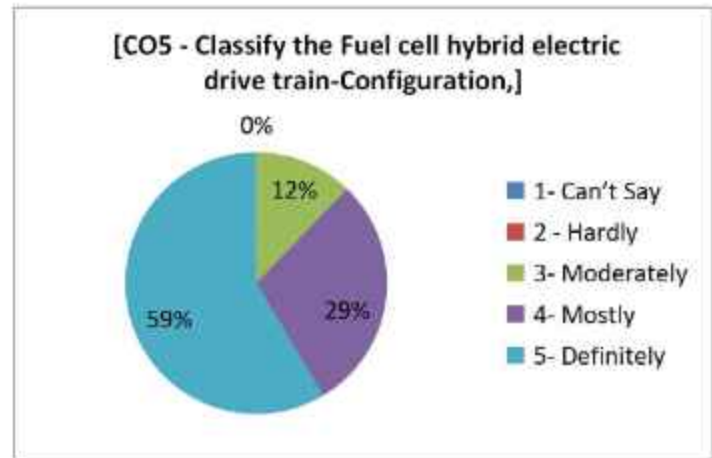
[CO4 - Summarize Batteries for EV's and HEV's-Lead Acid, Nickel Based and Lithium Ion]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	14.63414634
4- Mostly	10	24.3902439
5- Definitely	25	60.97560976
Total	41	100



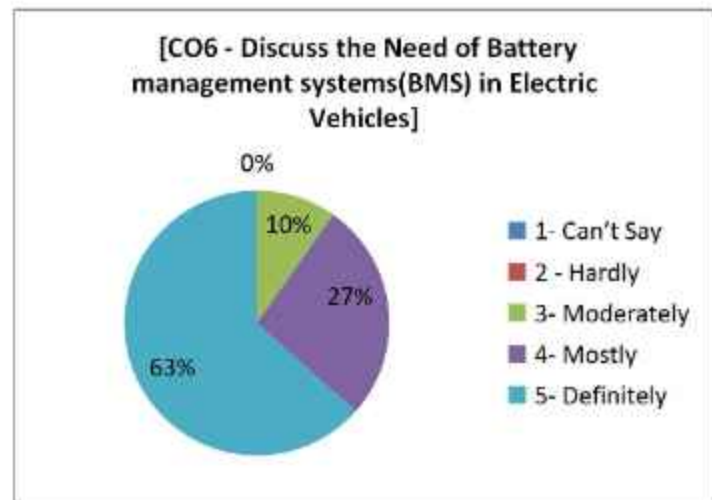
[CO5 - Classify the Fuel cell hybrid electric drive train-Configuration,]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	12	29.26829268
5- Definitely	24	58.53658537
Total	41	100



[CO6 - Discuss the Need of Battery management systems(BMS) in Electric Vehicles]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	11	26.82926829
5- Definitely	26	63.41463415
Total	41	100



  
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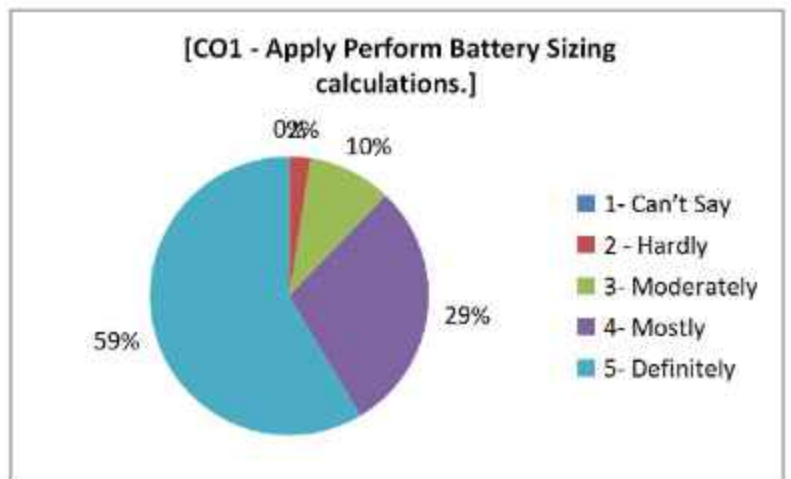
**Course Exit Analysis Report ( Sem VIII)**

**Subject: HYBRID & ELECTRIC VEHICLES  
(AEL801)**

**Subject In-charge: Prof. Chetan Thakur**

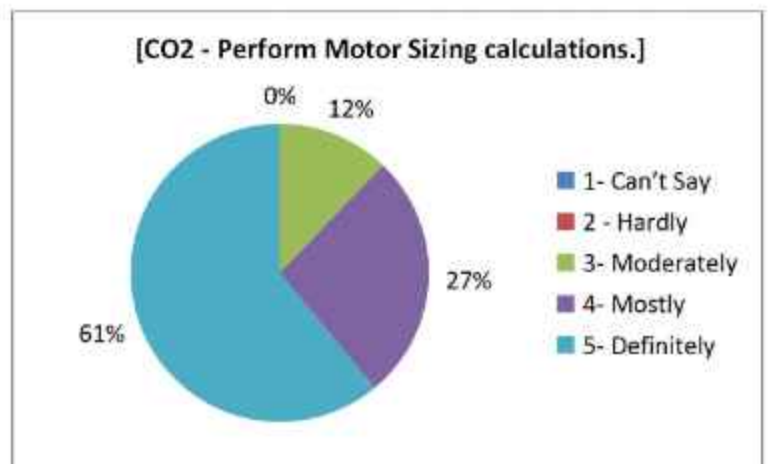
[CO1 - Apply Perform Battery Sizing calculations.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.43902439
3- Moderately	4	9.756097561
4- Mostly	12	29.26829268
5- Definitely	24	58.53658537
<b>Total</b>	<b>41</b>	<b>100</b>



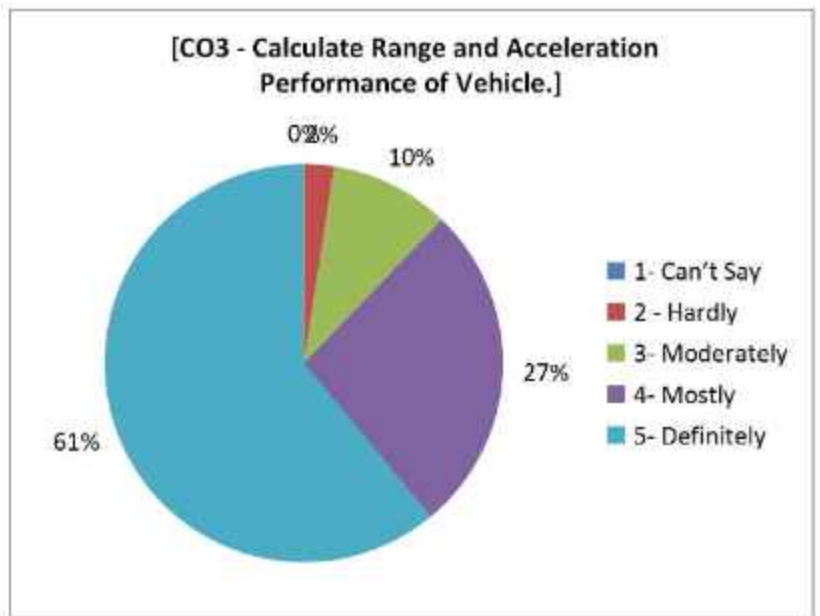
[CO2 - Perform Motor Sizing calculations.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	11	26.82926829
5- Definitely	25	60.97560976
<b>Total</b>	<b>41</b>	<b>100</b>



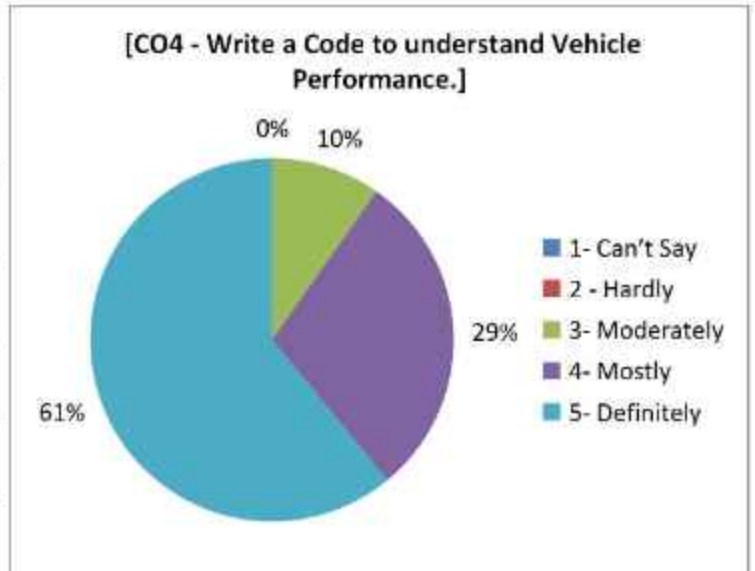
[CO3 - Calculate Range and Acceleration Performance of Vehicle.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.43902439
3- Moderately	4	9.756097561
4- Mostly	11	26.82926829
5- Definitely	25	60.97560976
Total	41	100



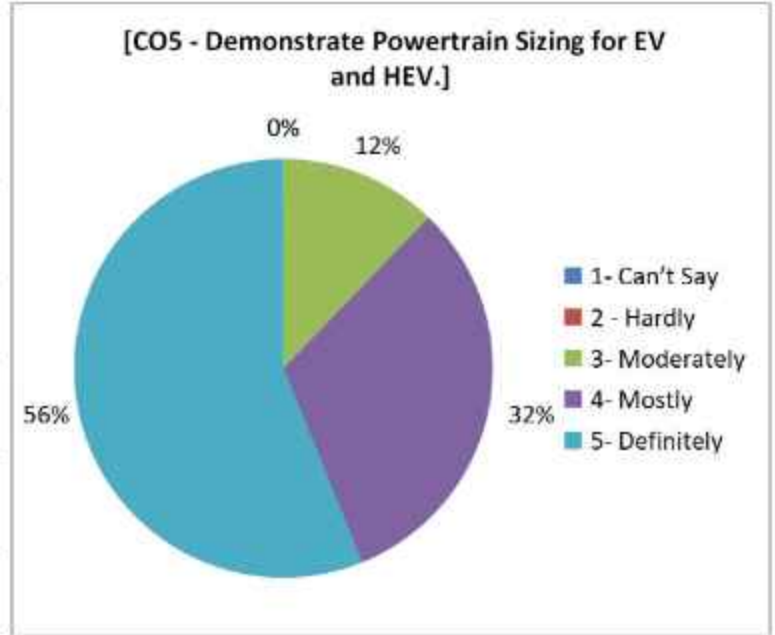
[CO4 - Write a Code to understand Vehicle Performance.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	12	29.26829268
5- Definitely	25	60.97560976
Total	41	100



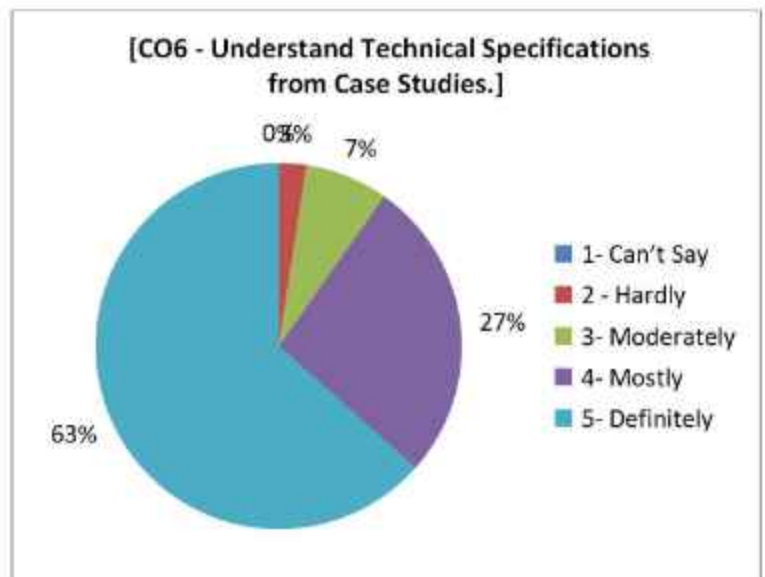
[CO5 - Demonstrate Power train Sizing for EV and HEV.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	13	31.70731707
5- Definitely	23	56.09756098
Total	41	100



[CO6 - Understand Technical Specifications from Case Studies.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.43902439
3- Moderately	3	7.317073171
4- Mostly	11	26.82926829
5- Definitely	26	63.41463415
Total	41	100



  
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Department of Automobile

Engineering Academic Year: 2022-23

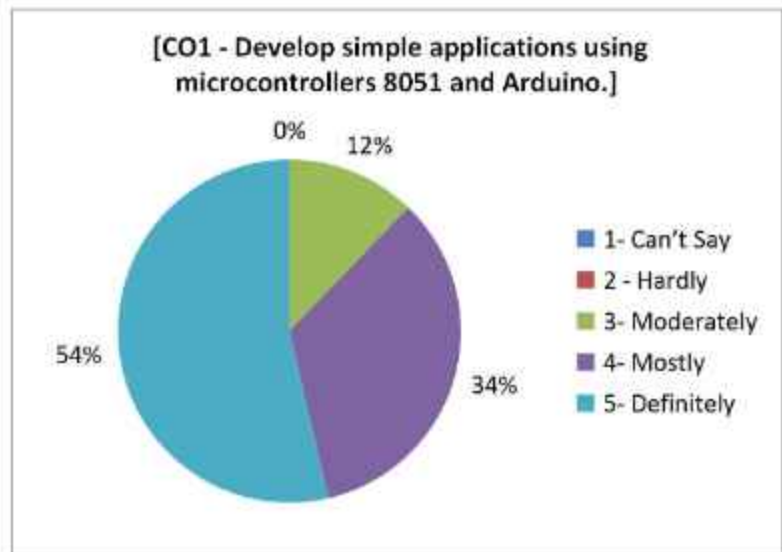
**Course Exit Analysis Report ( Sem VIII)**

**Subject: LABORATORY BASED ON IOT  
(AEL802)**

**Subject In-charge: Prof. NileshPatil**

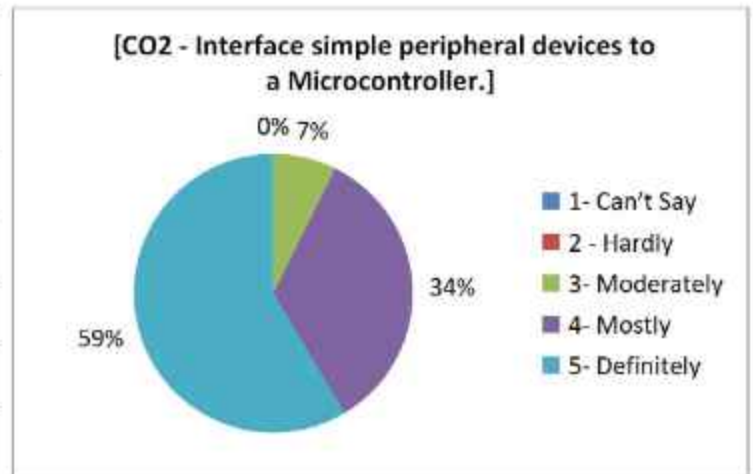
[CO1 - Develop simple applications using microcontrollers 8051 and Arduino.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	14	34.14634146
5- Definitely	22	53.65853659
<b>Total</b>	<b>41</b>	<b>100</b>



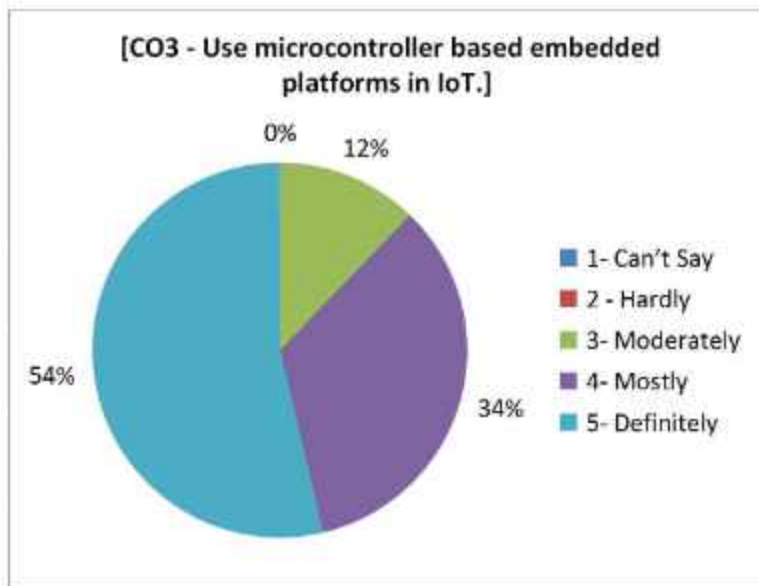
[CO2 - Interface simple peripheral devices to a Microcontroller.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	3	7.317073171
4- Mostly	14	34.14634146
5- Definitely	24	58.53658537
<b>Total</b>	<b>41</b>	<b>100</b>



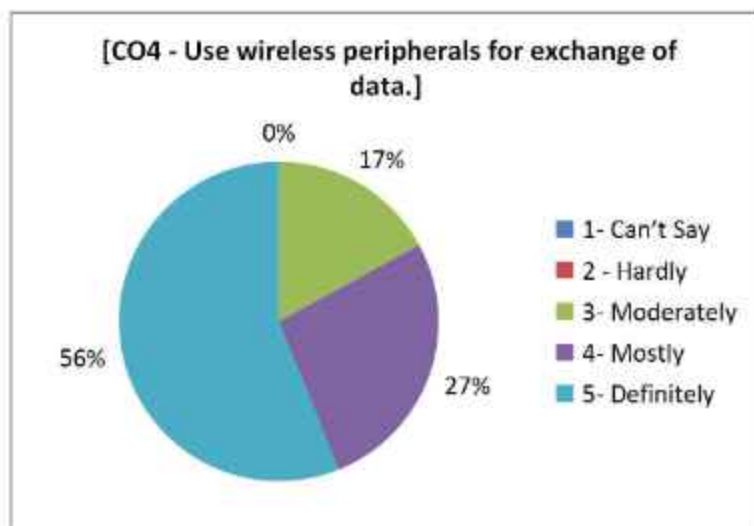
[CO3 - Use microcontroller based embedded platforms in IoT.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	12.19512195
4- Mostly	14	34.14634146
5- Definitely	22	53.65853659
Total	41	100



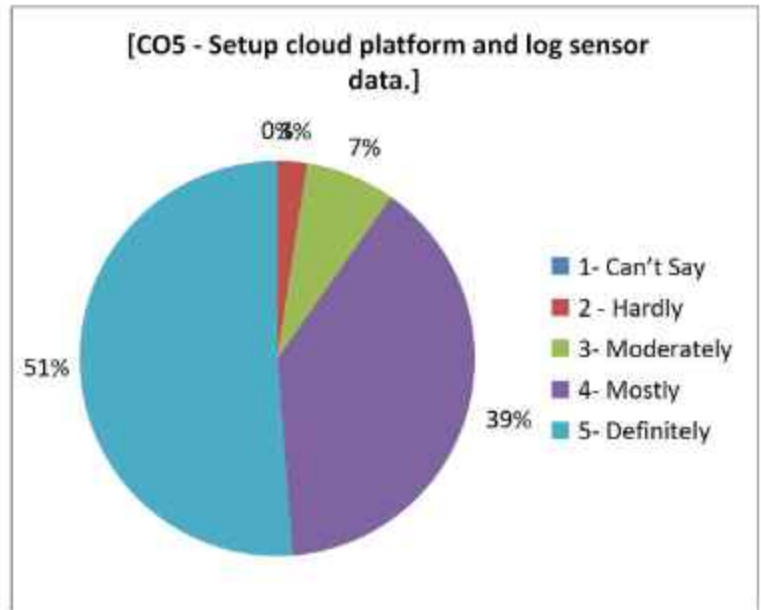
[CO4 - Use wireless peripherals for exchange of data.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	7	17.07317073
4- Mostly	11	26.82926829
5- Definitely	23	56.09756098
Total	41	100



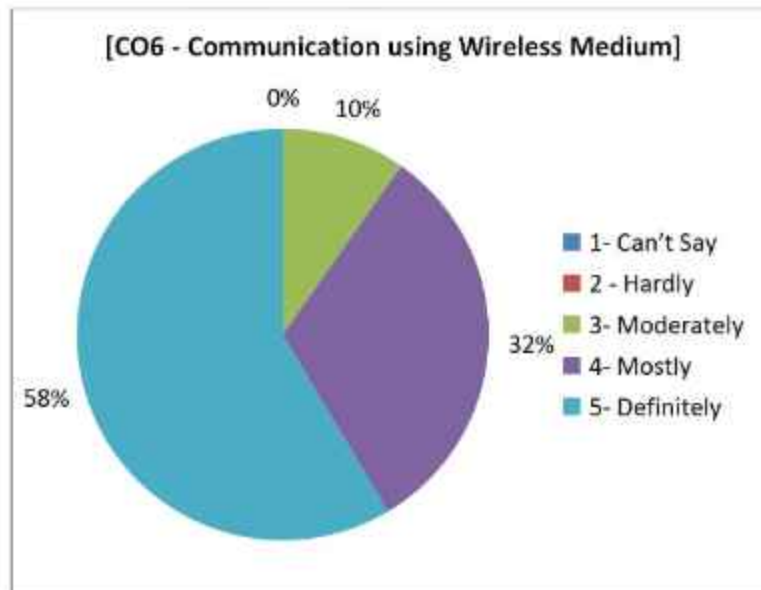
[CO5 - Setup cloud platform and log sensor data.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.43902439
3- Moderately	3	7.317073171
4- Mostly	16	39.02439024
5- Definitely	21	51.2195122
Total	41	100



[CO6 - Communication using Wireless Medium]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	13	31.70731707
5- Definitely	24	58.53658537
Total	41	100



  
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Engineering Academic Year: 2022-23

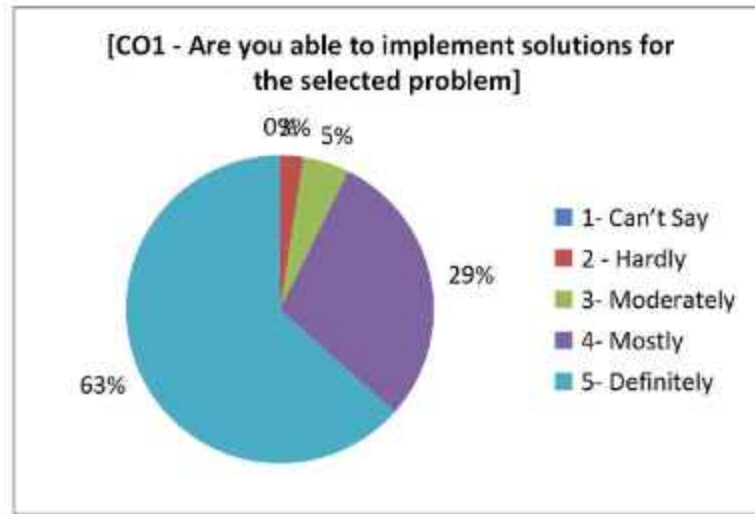
**Course Exit Analysis Report ( Sem VIII)**

**Subject: MAJOR PROJECT II (AEP801)**

Subject In-charge: Prof.

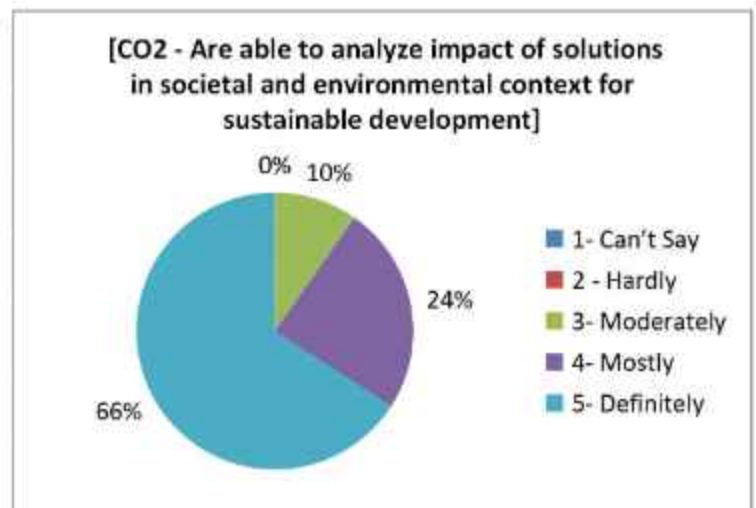
[CO1 - Are you able to implement solutions for the selected problem]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.43902439
3- Moderately	2	4.87804878
4- Mostly	12	29.26829268
5- Definitely	26	63.41463415
Total	41	100



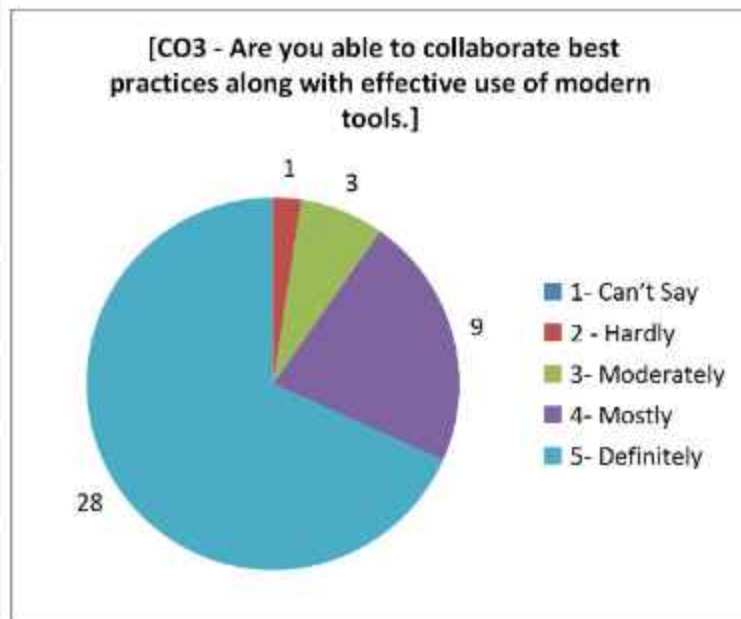
[CO2 - Are able to analyze impact of solutions in societal and environmental context for sustainable development]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	10	24.3902439
5- Definitely	27	65.85365854
Total	41	100



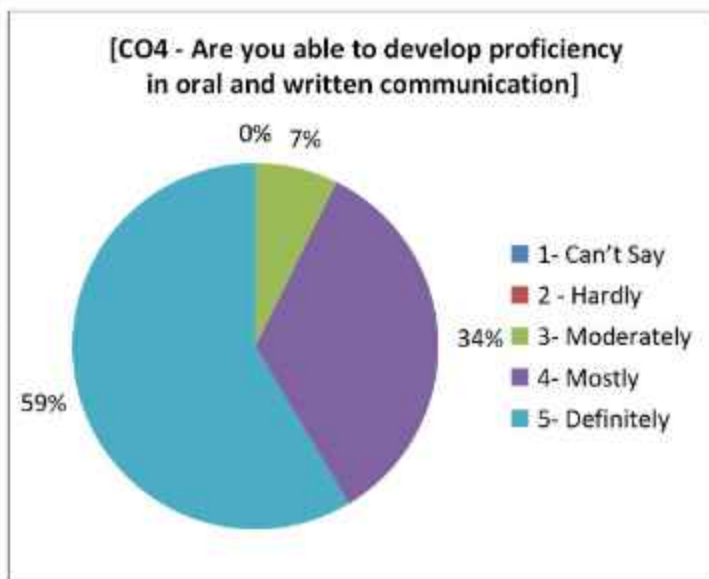
[CO3 - Are you able to collaborate best practices along with effective use of modern tools.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.43902439
3- Moderately	3	7.317073171
4- Mostly	9	21.95121951
5- Definitely	28	68.29268293
Total	41	100



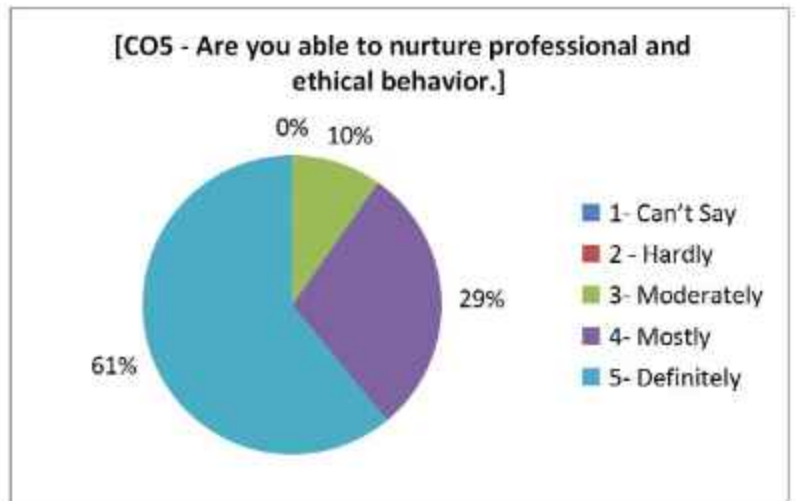
[CO4 - Are you able to develop proficiency in oral and written communication]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	3	7.317073171
4- Mostly	14	34.14634146
5- Definitely	24	58.53658537
Total	41	100



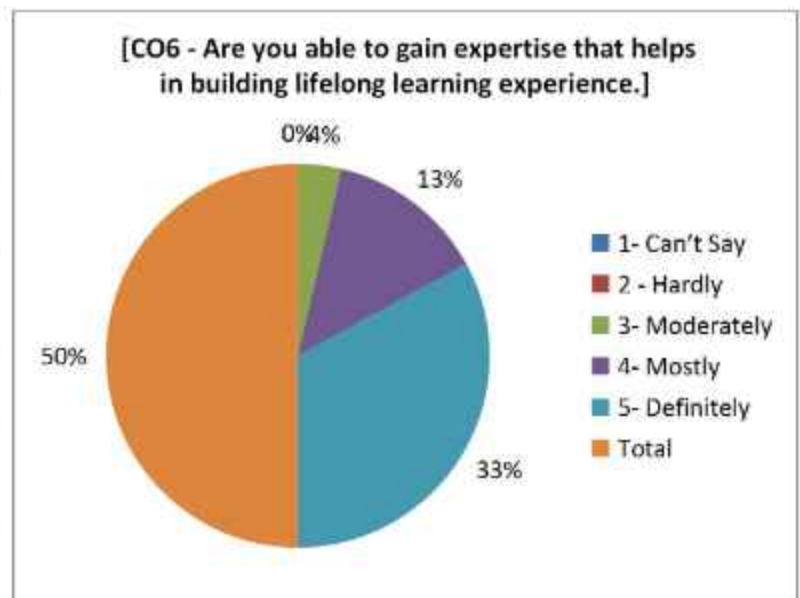
[CO5 - Are you able to nurture professional and ethical behavior.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	4	9.756097561
4- Mostly	12	29.26829268
5- Definitely	25	60.97560976
Total	41	100



[CO6 - Are you able to gain expertise that helps in building lifelong learning experience.]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	3	7.317073171
4- Mostly	11	26.82926829
5- Definitely	27	65.85365854
Total	41	100



  
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Department of Automobile Engineering

Academic Year: 2022-23

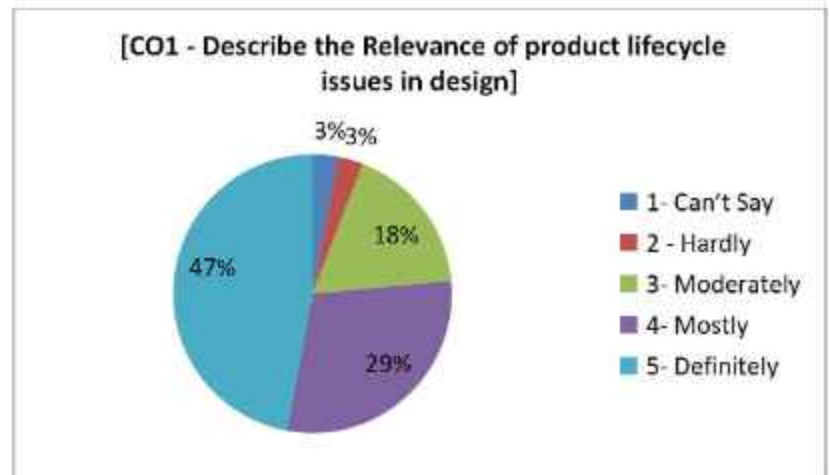
**Course Exit Analysis Report (SEM VIII)**

**Subject: PRODUCT DESIGN & DEVELOPMENT  
(AEDLO8061)**

**Subject In-charge: Dr. Vivek Yakkundi**

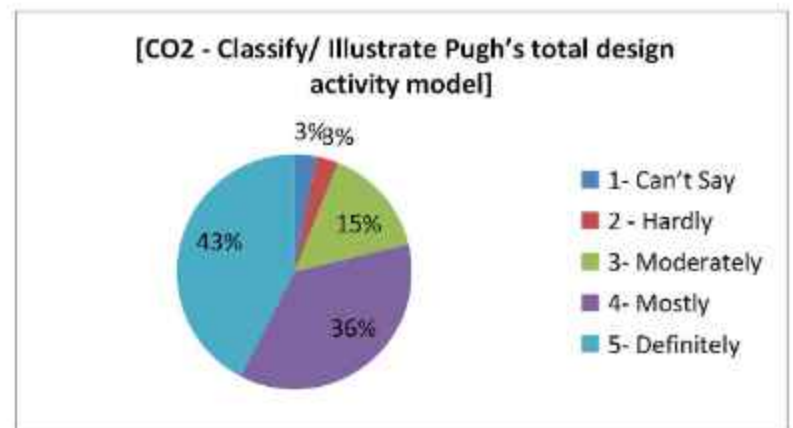
[CO1 - Describe the Relevance of product lifecycle issues in design]

Score	No. of Students	Percentage
1- Can't Say	1	2.941176471
2 - Hardly	1	2.941176471
3- Moderately	6	17.64705882
4- Mostly	10	29.41176471
5- Definitely	16	47.05882353
<b>Total</b>	<b>34</b>	<b>100</b>



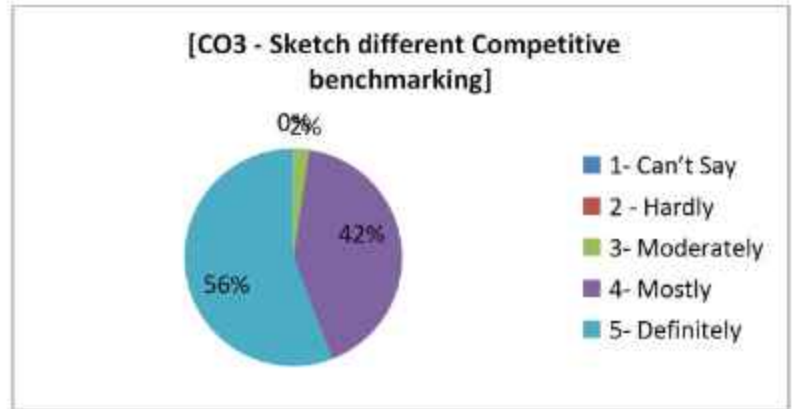
[CO2 - Classify/ Illustrate Pugh's total design activity model]

Score	No. of Students	Percentage
1- Can't Say	1	3.03030303
2 - Hardly	1	3.03030303
3- Moderately	5	15.15151515
4- Mostly	12	36.36363636
5- Definitely	14	42.42424242
<b>Total</b>	<b>33</b>	<b>100</b>



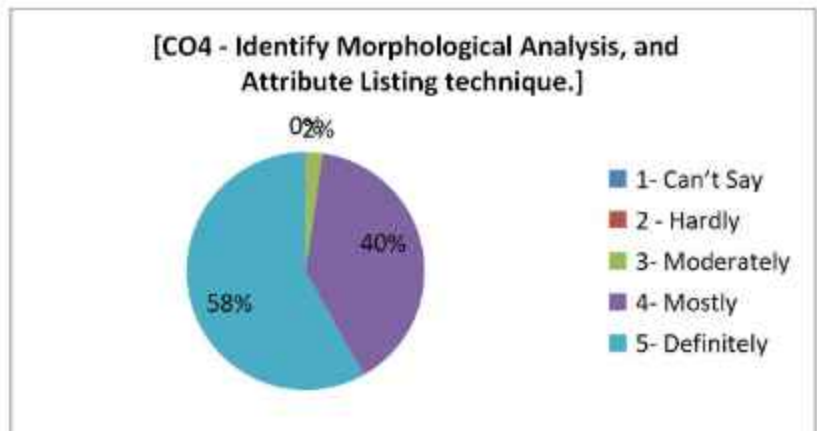
[CO3 - Sketch different Competitive benchmarking]

Score	No. of Students	Percentage
1- Can't Say	0	2.941176471
2 - Hardly	0	2.941176471
3- Moderately	1	11.76470588
4- Mostly	18	29.41176471
5- Definitely	24	52.94117647
Total	43	100



[CO4 - Identify Morphological Analysis, and Attribute Listing technique.]

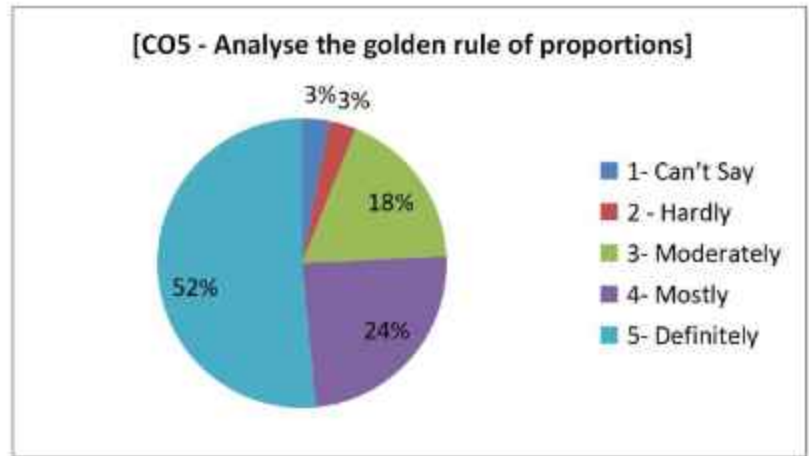
Score	No. of Students	Percentage
1- Can't Say	0	2.941176471
2 - Hardly	0	2.941176471
3- Moderately	1	14.70588235
4- Mostly	17	41.17647059
5- Definitely	25	38.23529412
Total	43	100





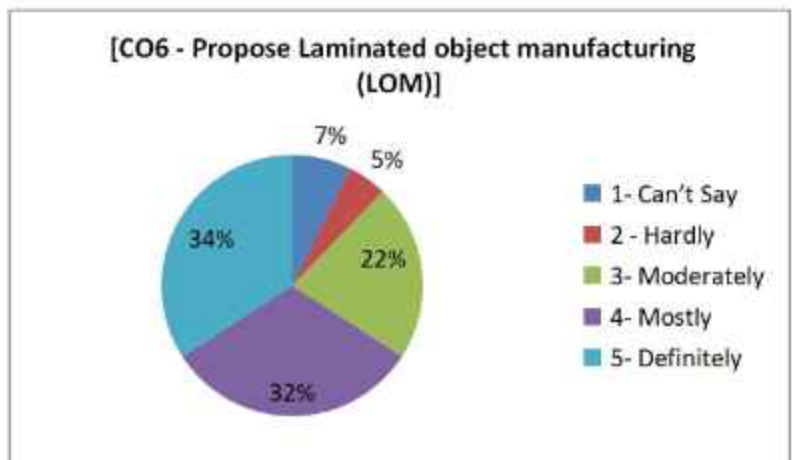
[CO5 - Analyse the golden rule of proportions]

Score	No. of Students	Percentage
1- Can't Say	1	3.03030303
2 - Hardly	1	3.03030303
3- Moderately	6	18.18181818
4- Mostly	8	24.24242424
5- Definitely	17	51.51515152
Total	33	100



[CO6 - Propose Laminated object manufacturing (LOM)]

Score	No. of Students	Percentage
1- Can't Say	3	7.317073171
2 - Hardly	2	4.87804878
3- Moderately	9	21.95121951
4- Mostly	13	31.70731707
5- Definitely	14	34.14634146
Total	41	100



( H O D )

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Department of Automobile

Engineering Academic Year: 2022-23

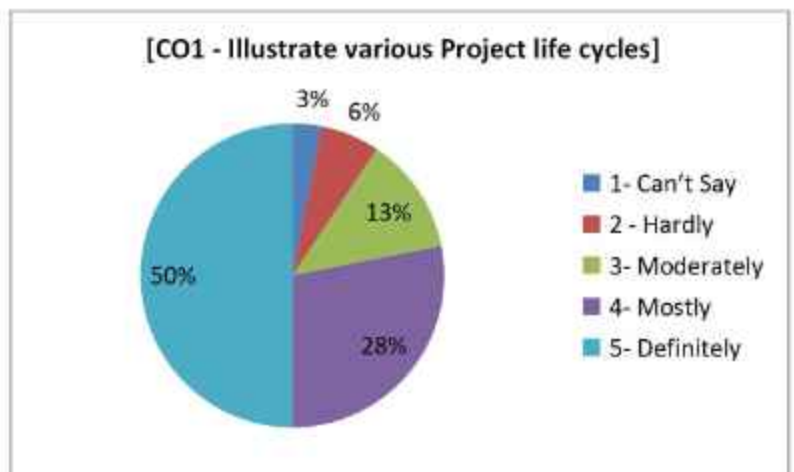
**Course Exit Analysis Report (SEM VIII)**

**Subject: PROJECT MANAGEMENT (ILO8021)**

**Subject In-charge: Dr. Neha Sharma**

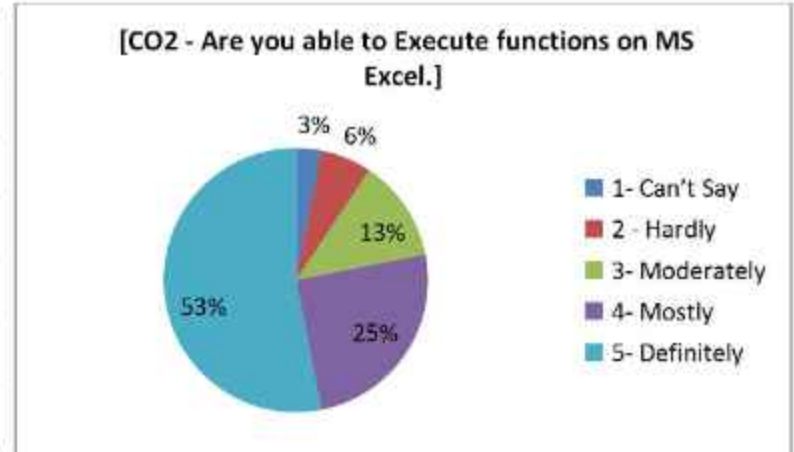
[CO1 - Illustrate various Project life cycles]

Score	No. of Students	Percentage
1- Can't Say	1	3.125
2 - Hardly	2	6.25
3- Moderately	4	12.5
4- Mostly	9	28.125
5- Definitely	16	50
Total	32	100



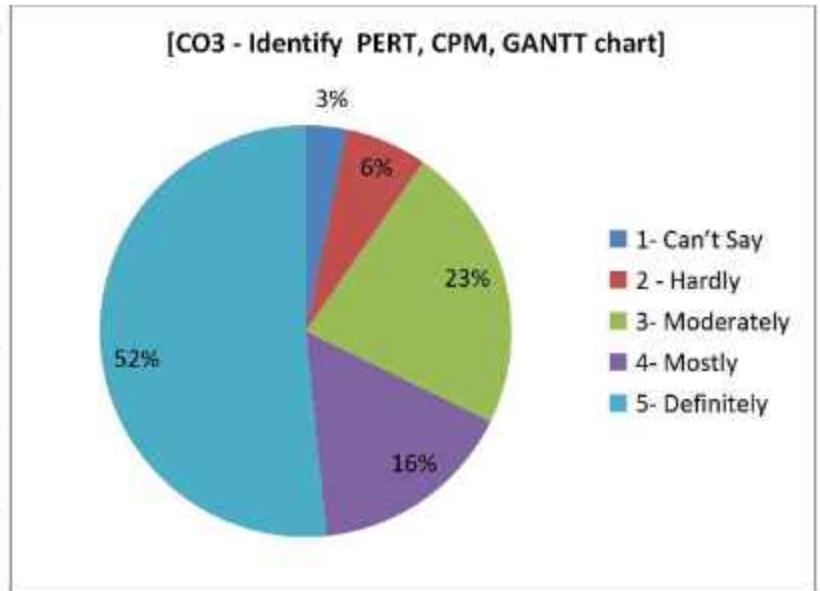
[CO2 - Apply various Stages of team development & growth]

Score	No. of Students	Percentage
1- Can't Say	1	3.125
2 - Hardly	2	6.25
3- Moderately	4	12.5
4- Mostly	8	25
5- Definitely	17	53.125
Total	32	100



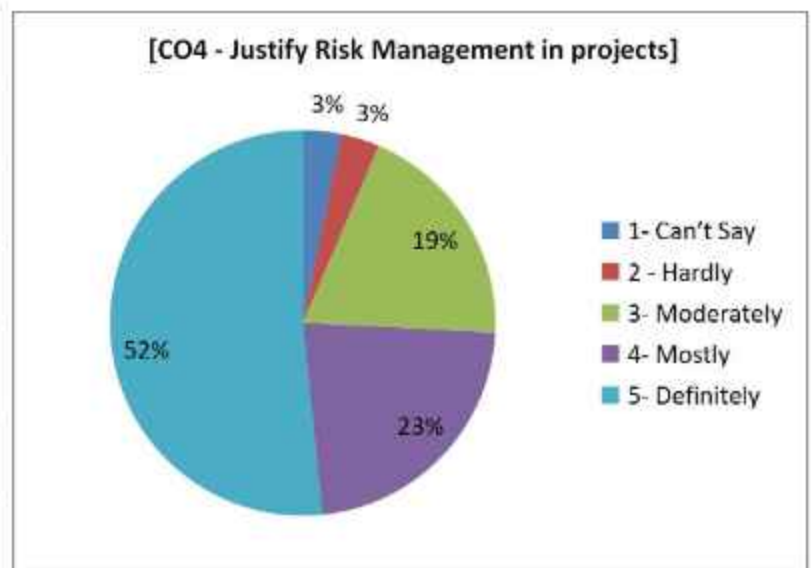
[CO3 - Identify PERT, CPM, GANTT chart]

Score	No. of Students	Percentage
1- Can't Say	1	3.225806452
2 - Hardly	2	6.451612903
3- Moderately	7	22.58064516
4- Mostly	5	16.12903226
5- Definitely	16	51.61290323
Total	31	100



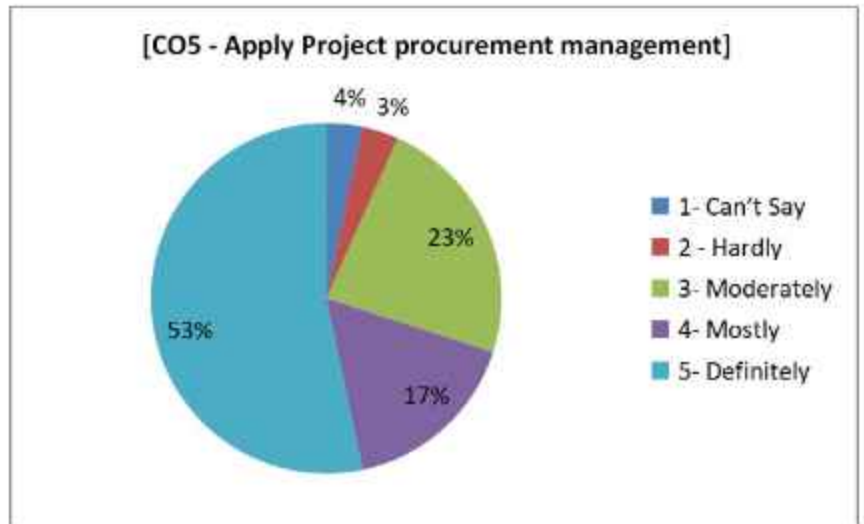
[CO4 - Justify Risk Management in projects]

Score	No. of Students	Percentage
1- Can't Say	1	3.225806452
2 - Hardly	1	3.225806452
3- Moderately	6	19.35483871
4- Mostly	7	22.58064516
5- Definitely	16	51.61290323
Total	31	100



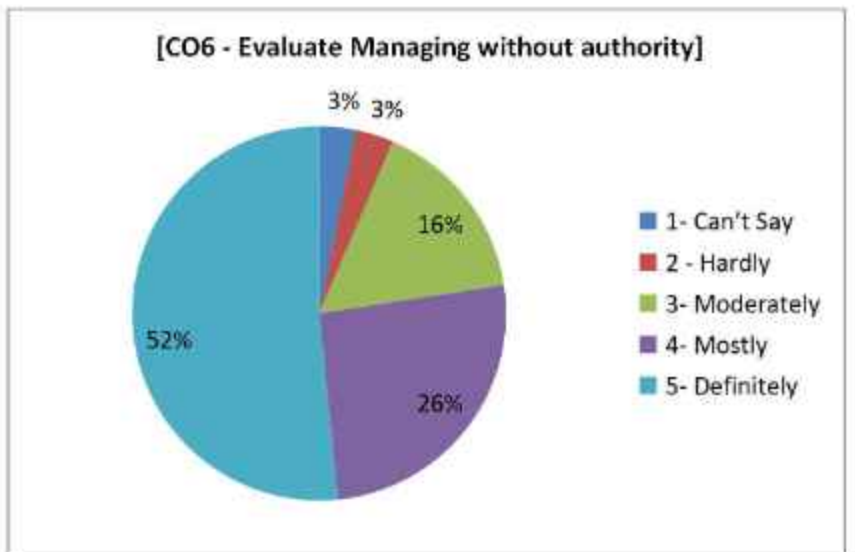
[CO5 - Apply Project procurement management]

Score	No. of Students	Percentage
1- Can't Say	1	3.333333333
2 - Hardly	1	3.333333333
3- Moderately	7	23.33333333
4- Mostly	5	16.66666667
5- Definitely	16	53.33333333
Total	30	100



[CO6 - Evaluate Managing without authority]

Score	No. of Students	Percentage
1- Can't Say	1	3.225806452
2 - Hardly	1	3.225806452
3- Moderately	5	16.12903226
4- Mostly	8	25.80645161
5- Definitely	16	51.61290323
Total	31	100



  
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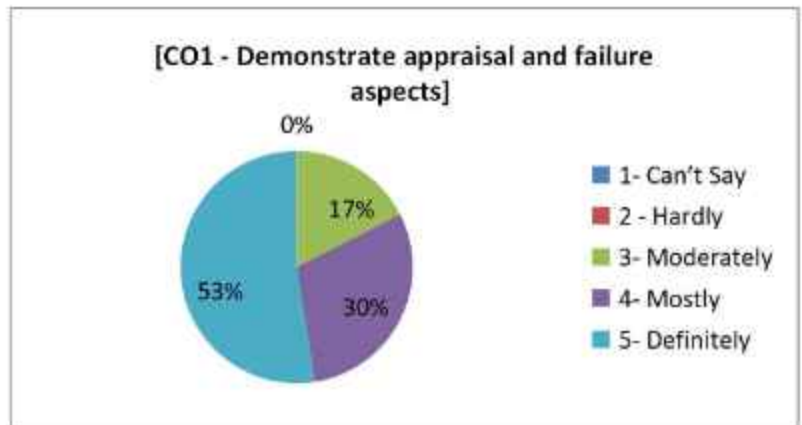
**Course Exit Analysis Report (SEM VIII)**

**Subject: TOTAL QUALITY MANAGEMENT  
(AEDLO8063)**

**Subject In-charge: Prof. Sagar Khatavkar**

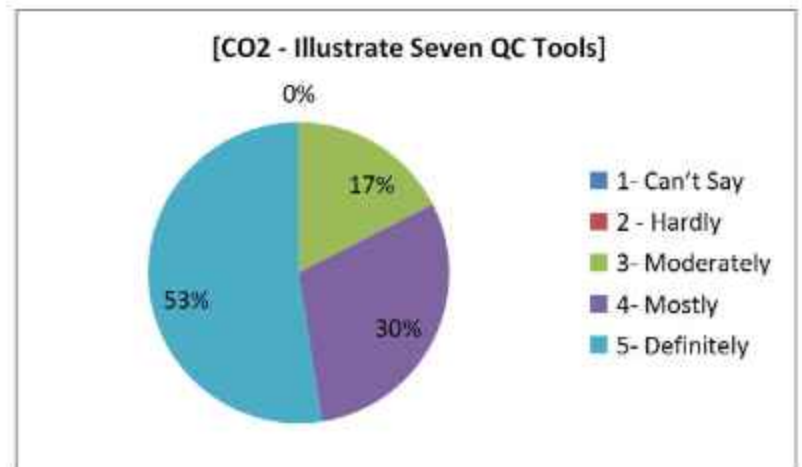
[CO1 - Demonstrate appraisal and failure aspects]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	7	17.5
4- Mostly	12	30
5- Definitely	21	52.5
<b>Total</b>	<b>40</b>	<b>100</b>



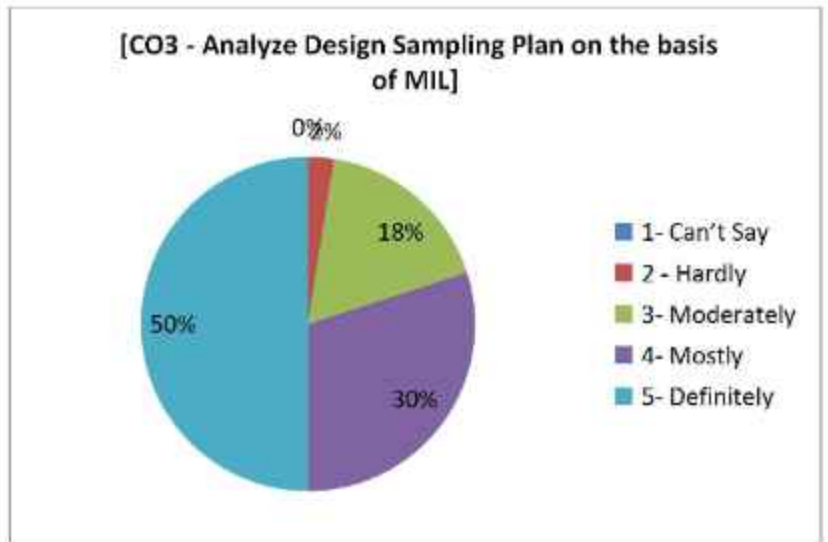
[CO2 - Illustrate Seven QC Tools]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	2.5
3- Moderately	17.5	10
4- Mostly	30	27.5
5- Definitely	52.5	60
<b>Total</b>	<b>100</b>	<b>100</b>



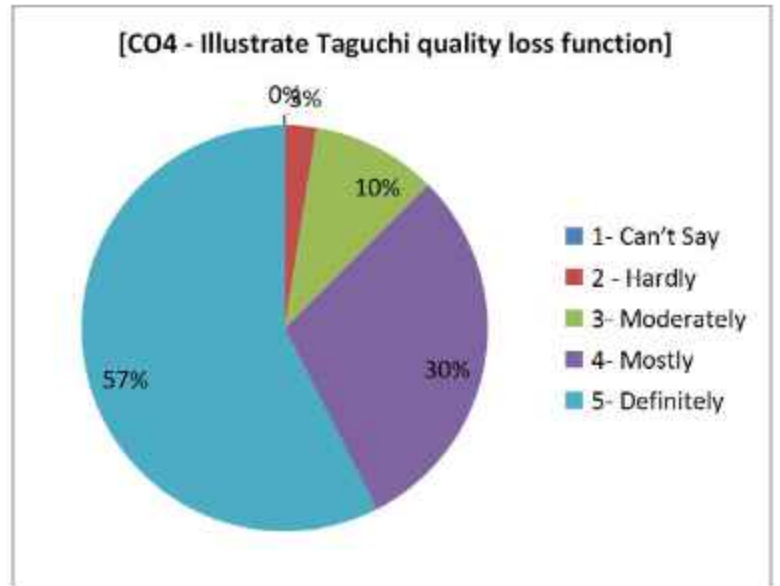
[CO3 - Analyze Design Sampling Plan on the basis of MIL]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.5
3- Moderately	7	17.5
4- Mostly	12	30
5- Definitely	20	50
Total	40	100



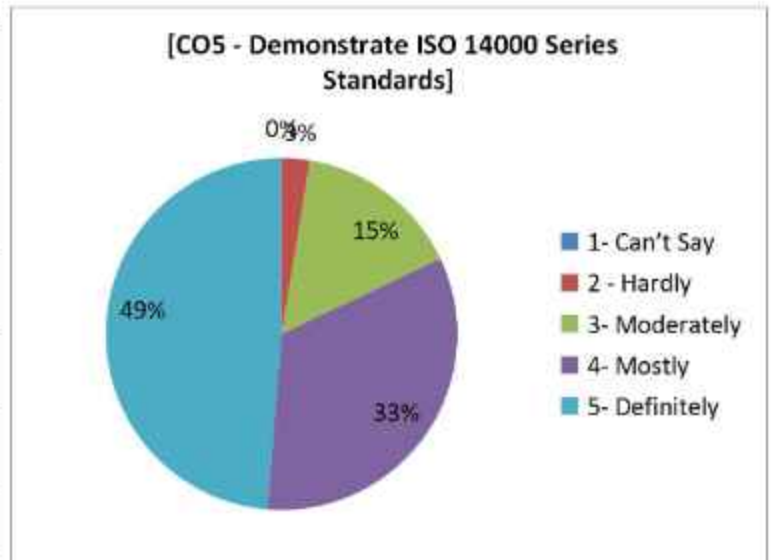
[CO4 - Illustrate Taguchi quality loss function]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.5
3- Moderately	4	10
4- Mostly	12	30
5- Definitely	23	57.5
Total	40	100



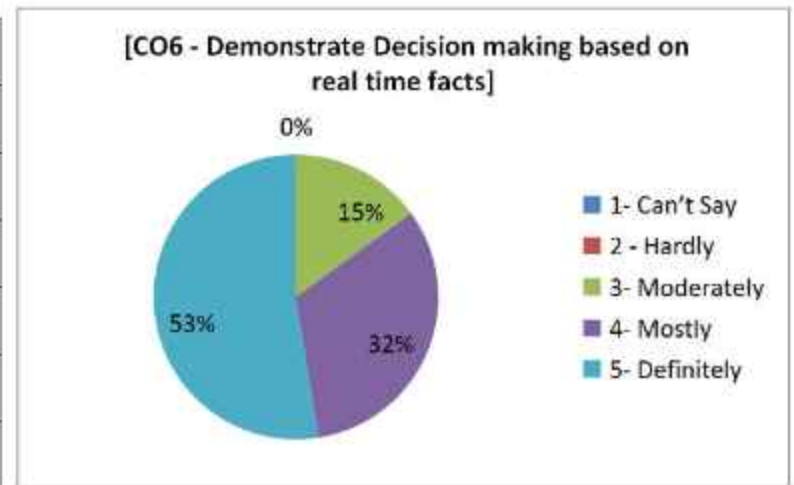
[CO5 - Demonstrate ISO 14000 Series Standards]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	2.564102564
3- Moderately	6	15.38461538
4- Mostly	13	33.33333333
5- Definitely	19	48.71794872
Total	39	100



[CO6 - Demonstrate Decision making based on real time facts]

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	15
4- Mostly	13	32.5
5- Definitely	21	52.5
Total	40	100



  
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**Action Taken Report on Student's Feedback**

**Department: Automobile Engineering**

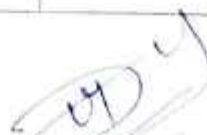
**Academic Year- 2022-2023**

**SEM: SEM VIII**

**YEAR: BE**

SR NO	Subject	Faculty	Feedback/Concern	Action Take
1	PRODUCT DESIGN & DEVELOPMENT	Dr. Vivek Yakkundi	Some of the topics like recent development in automobile field are difficult to understand from student point of view	Online animated Content and NPTEL lecture series on such topics were given to students: <a href="https://www.youtube.com/watch?v=5H0euuo1PGQ&amp;t=55s">https://www.youtube.com/watch?v=5H0euuo1PGQ&amp;t=55s</a>
2	ENVIROMENTAL MANAGEMENT	Prof. DeepikaPatil	Difficulty in understanding waste management of plastic processing	Shared Vide link to students: <a href="https://www.youtube.com/watch?v=tNp39_L_HtU">https://www.youtube.com/watch?v=tNp39_L_HtU</a>
3	LABORATORY BASED ON IOT	Prof. NileshPatil	More informative notes about AI in IOT	Informative notes for the required topic were provided to students: <a href="https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf">https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf</a>
4	HYBRID & ELECTRIC VEHICLE	Prof. Chetan Thakur	More practical session and video contents should be included	Video session has been implemented through projector in lecture: <a href="https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf">https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf</a>

  
**HOD**

  
**Principal**





**Department of Automobile**

**Engineering Academic Year: 2022-23**

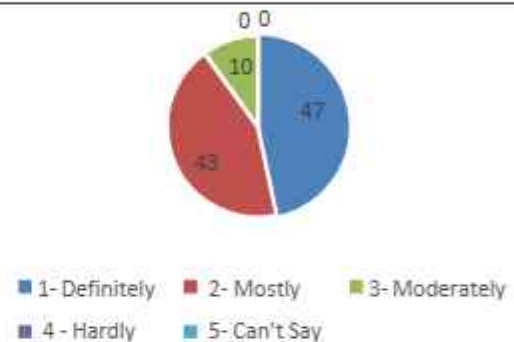
Course Exit Analysis Report (Sem VII)

**Subject – Automotive Aerodynamics and Aesthetics**

**Subject Teacher – Prof. Supriya Khapre**

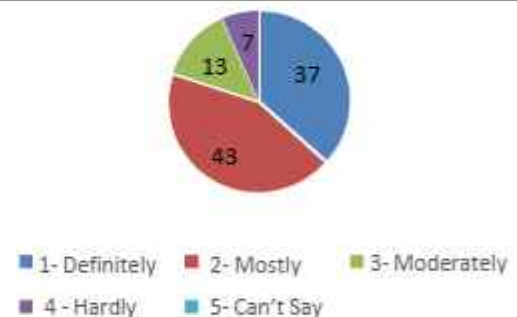
Score	No. of Students	Percentage (%)
1- Definitely	14	47
2- Mostly	13	43
3- Moderately	3	10
4 - Hardly	0	0
5- Can't Say	0	0
<b>Total</b>	<b>30</b>	<b>100</b>

CO1 - Recognize the several flow phenomenon related to vehicle



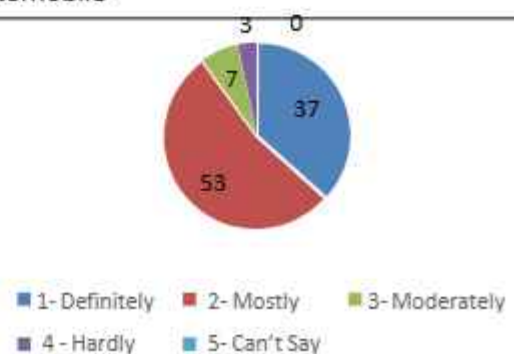
Score	No. of Students	Percentage (%)
1- Definitely	11	37
2- Mostly	13	43
3- Moderately	4	13
4 - Hardly	2	7
5- Can't Say	0	0
<b>Total</b>	<b>30</b>	<b>100</b>

CO2 - Implementation of various aerodynamic drag forces on car



Score	No. of Students	Percentage (%)
1- Definitely	11	37
2- Mostly	16	53
3- Moderately	2	7
4 - Hardly	1	3
5- Can't Say	0	0
<b>Total</b>	<b>30</b>	<b>100</b>

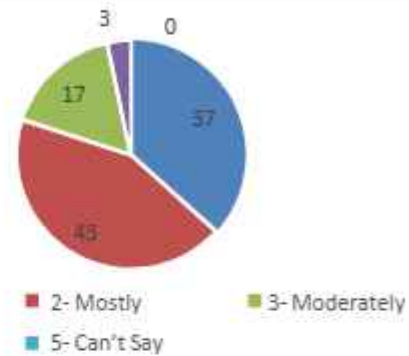
CO3 - Optimize several shape configuration in automobile





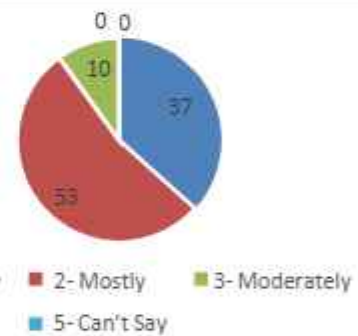
Score	No. of Students	Percentage (%)
1- Definitely	11	37
2- Mostly	13	43
3- Moderately	5	17
4 - Hardly	1	3
5- Can't Say	0	0
<b>Total</b>	<b>30</b>	<b>100</b>

CO4 - Apply the aerodynamic forces on stability of vehicle



Score	No. of Students	Percentage (%)
1- Definitely	11	37
2- Mostly	16	53
3- Moderately	3	10
4 - Hardly	0	0
5- Can't Say	0	0
<b>Total</b>	<b>30</b>	<b>100</b>

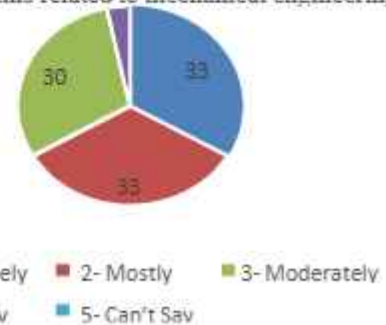
CO5 - Describe the wind tunnel technology for aerodynamic



Score	No. of Students	Percentage (%)
1- Definitely	10	33
2- Mostly	10	33
3- Moderately	9	30
4 - Hardly	1	3
5- Can't Say	0	0

CO6 - Demonstrate various techniques for automobile aesthetics

to solve problems related to mechanical engineering?



*[Signature]*  
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*[Signature]*  
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Department of Automobile Engineering

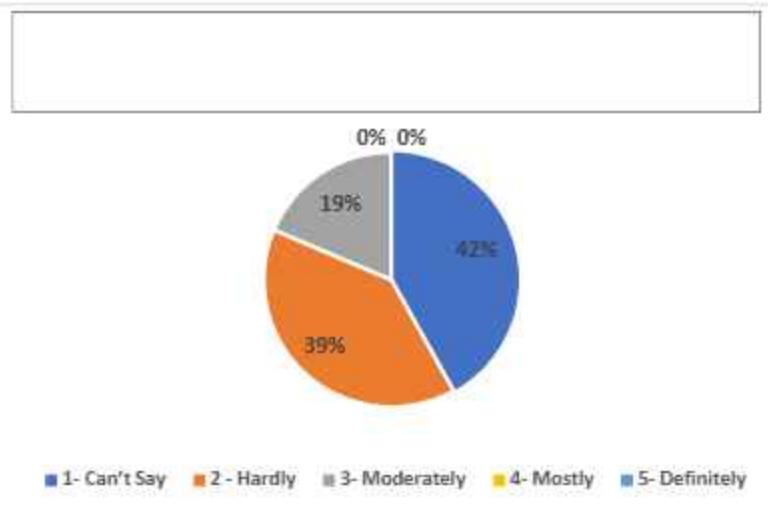
Academic Year: 2022-2023(ODD SEM)

**Course Exit Analysis Report(SemVII)**

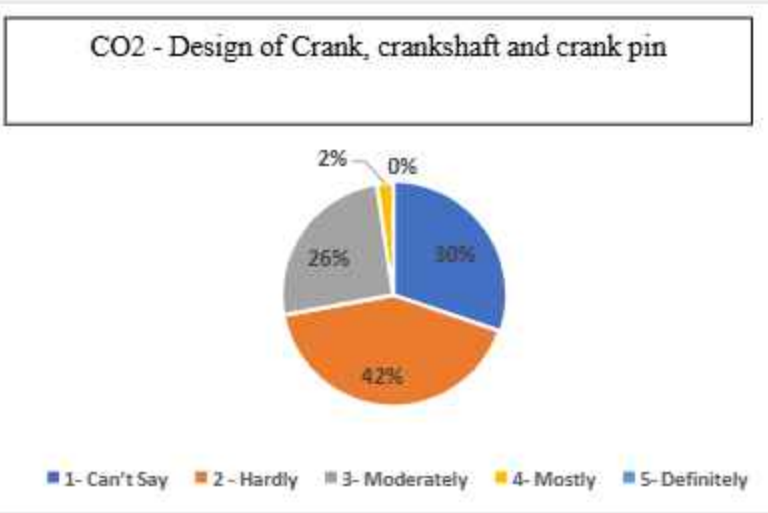
**Subject: AD**

Subject In-charge: Prof. Chetan Thakur

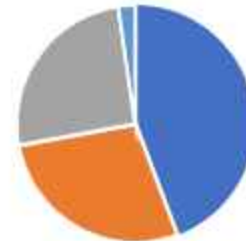
Score	No. of Students	Percentage (%)
1- Can't Say	18	42
2 - Hardly	17	40
3- Moderately	8	19
4- Mostly	0	0
5- Definitely	0	0
<b>Total</b>	<b>43</b>	<b>100</b>



Score	No. of Students	Percentage (%)
1- Can't Say	13	30
2 - Hardly	18	42
3- Moderately	11	26
4- Mostly	1	2
5- Definitely	0	0
<b>Total</b>	<b>43</b>	<b>100</b>

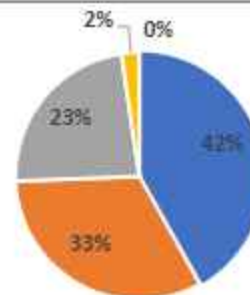


	No. of Students	Percentage (%)
1- Can't Say	19	44
2 - Hardly	12	28
3- Moderately	11	26
4- Mostly	0	0
5- Definitely	1	2
Total	43	100



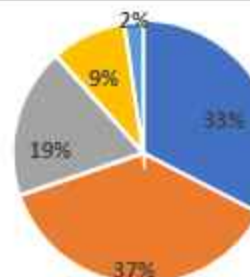
Score	No. of Students	Percentage (%)
1- Can't Say	18	42
2 - Hardly	14	33
3- Moderately	10	23
4- Mostly	1	2
5- Definitely	0	0
Total	43	100

CO4 - Design of Drive train



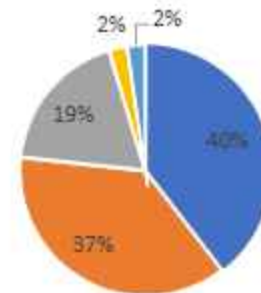
Score	No. of Students	Percentage (%)
1- Can't Say	14	33
2 - Hardly	16	37
3- Moderately	8	19
4- Mostly	4	9
5- Definitely	1	2
Total	43	100

CO5 - Judge the fundamental knowledge in the field of automotive design



Score	No. of Students	Percentage (%)
1- Can't Say	17	40
2 - Hardly	16	37
3- Moderately	8	19
4- Mostly	1	2
5- Definitely	1	2
Total	43	100

CO6 - Determine the analytical abilities to give solutions to Automotive design problems



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

  
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Department of Automobile Engineering

Academic Year: 2022-2023(ODD SEM)

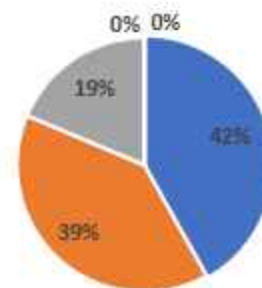
**Course Exit Analysis Report (Sem VII)**

**Subject: Autotronics**

Subject In-charge: Prof. P. Ingle

Score	No. of Students	Percentage (%)
1- Can't Say	18	42
2 - Hardly	17	40
3- Moderately	8	19
4- Mostly	0	0
5- Definitely	0	0
Total	43	100

CO1 - Explain the working of different batteries and fuel cells along with its charging, rating, and maintenance.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	13	30
2 - Hardly	18	42
3- Moderately	11	26
4- Mostly	1	2
5- Definitely	0	0
Total	43	100

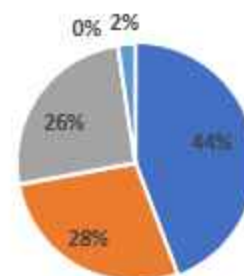
CO2 - Demonstrate the working of charging systems used in automobiles.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	19	44
2 - Hardly	12	28
3- Moderately	11	26
4- Mostly	0	0
5- Definitely	1	2
Total	43	100

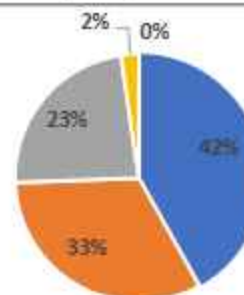
CO3 - Illustrate the working of starting systems used in automobiles



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	18	42
2 - Hardly	14	33
3- Moderately	10	23
4- Mostly	1	2
5- Definitely	0	0
Total	43	100

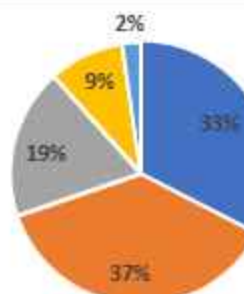
CO4 - Elaborate the advancements like Electronic Ignition and Engine control systems (ECM) with its significance in vehicle



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	14	33
2 - Hardly	16	37
3- Moderately	8	19
4- Mostly	4	9
5- Definitely	1	2
Total	43	100

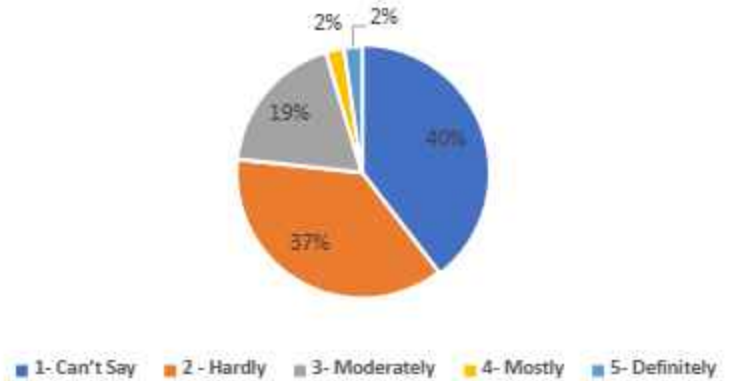
CO5 - Discuss the working of different automotive Sensors and Actuators.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	17	40
2 - Hardly	16	37
3- Moderately	8	19
4- Mostly	1	2
5- Definitely	1	2
Total	43	100

CO6 - Draw and Interpret automotive lighting and wiring harness systems.



  
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Department of Automobile Engineering

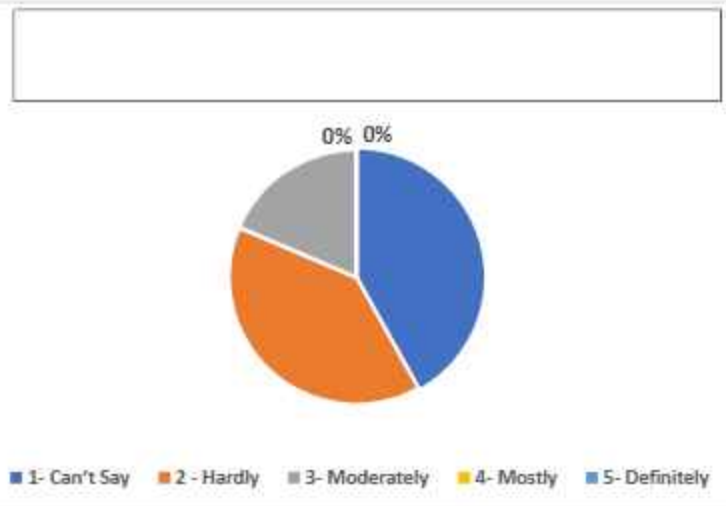
Academic Year: 2022-2023(ODD SEM)

**Course Exit Analysis Report (Sem VII)**

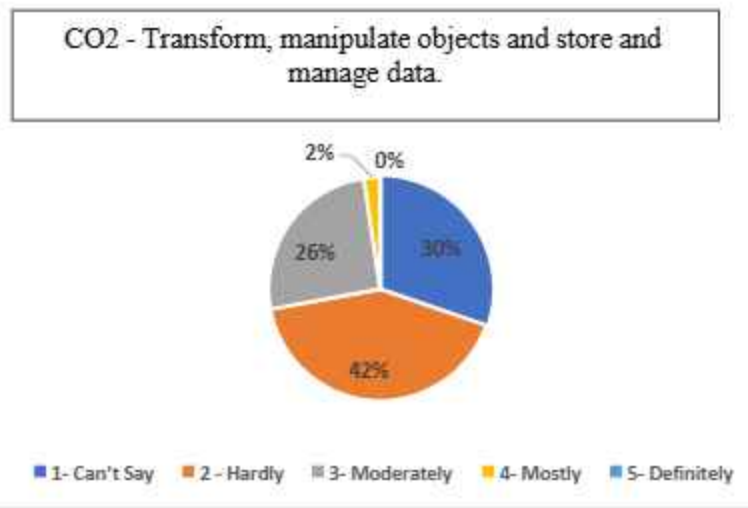
**Subject: CAD/CAM/CAE**

Subject In-charge: Prof. Namita Tangan

Score	No. of Students	Percentage (%)
1- Can't Say	18	42
2 - Hardly	17	40
3- Moderately	8	19
4- Mostly	0	0
5- Definitely	0	0
Total	43	100



Score	No. of Students	Percentage (%)
1- Can't Say	13	30
2 - Hardly	18	42
3- Moderately	11	26
4- Mostly	1	2
5- Definitely	0	0
Total	43	100



Score	No. of Students	Percentage (%)
1- Can't Say	19	44
2 - Hardly	12	28
3- Moderately	11	26
4- Mostly	0	0
5- Definitely	1	2
Total	43	100

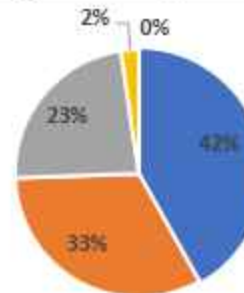
CO3 - Prepare part programming applicable to CNC machines.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	18	42
2 - Hardly	14	33
3- Moderately	10	23
4- Mostly	1	2
5- Definitely	0	0
Total	43	100

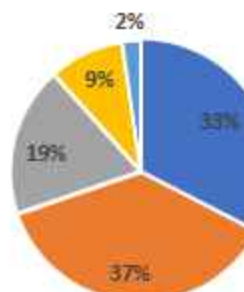
CO4 - Use rapid prototyping and tooling concepts in any real life applications.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	14	33
2 - Hardly	16	37
3- Moderately	8	19
4- Mostly	4	9
5- Definitely	1	2
Total	43	100

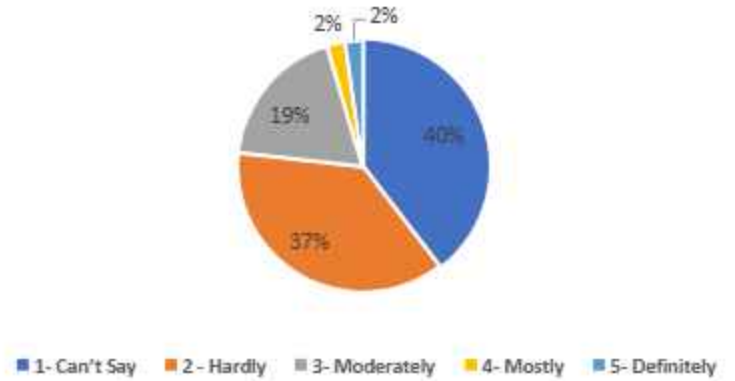
CO5 - Identify the tools for Analysis of a complex engineering component.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	17	40
2 - Hardly	16	37
3- Moderately	8	19
4- Mostly	1	2
5- Definitely	1	2
Total	43	100

CO6 - Generate CAM Tool path Creation and NC- G code output.



  
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Department of Automobile Engineering

Academic Year: 2022-2023(ODD SEM)

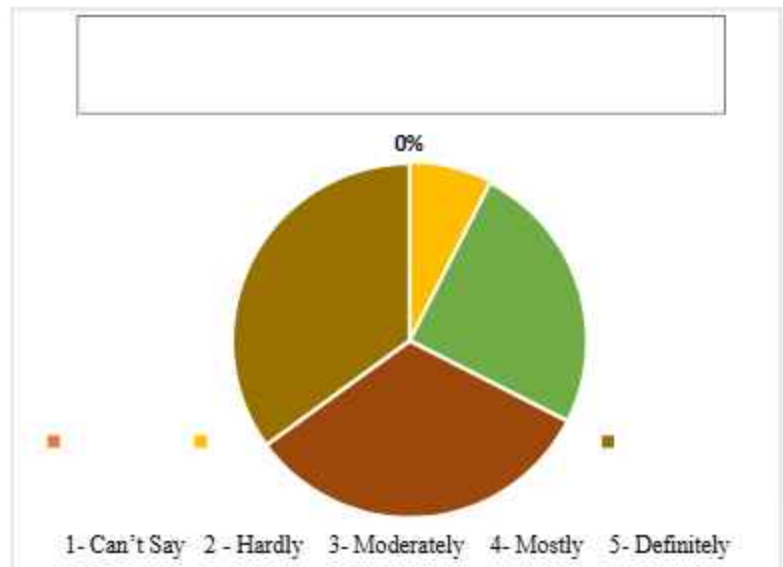
**Course Exit Analysis Report (Sem**

**VII)**

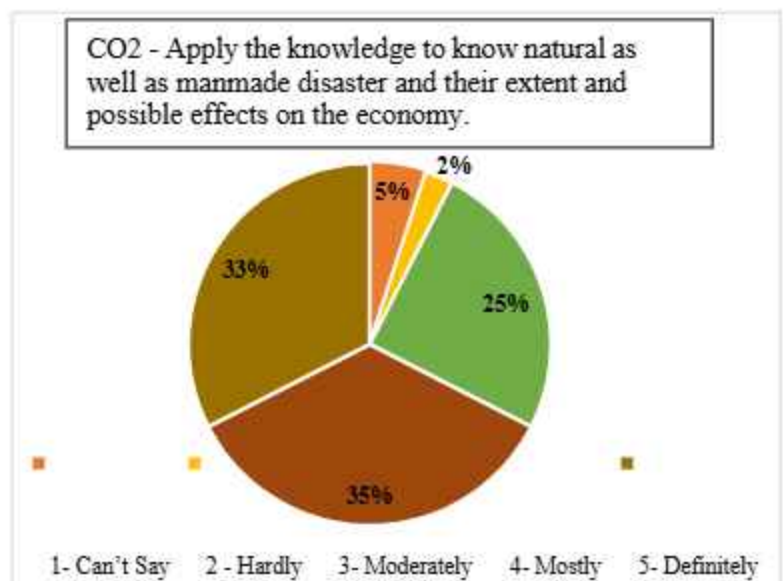
**Subject: Disaster Management and Mitigation  
Measurese**

Subject In-charge: Prof. Neha Sharma

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	3	7
3- Moderately	10	25
4- Mostly	13	33
5- Definitely	14	35
Total	40	100

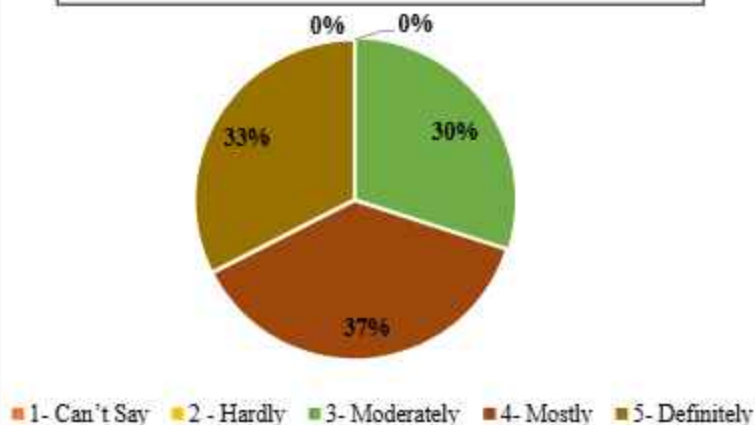


Score	No. of Students	Percentage (%)
1- Can't Say	2	5
2 - Hardly	1	2
3- Moderately	10	25
4- Mostly	14	35
5- Definitely	13	33
Total	40	100



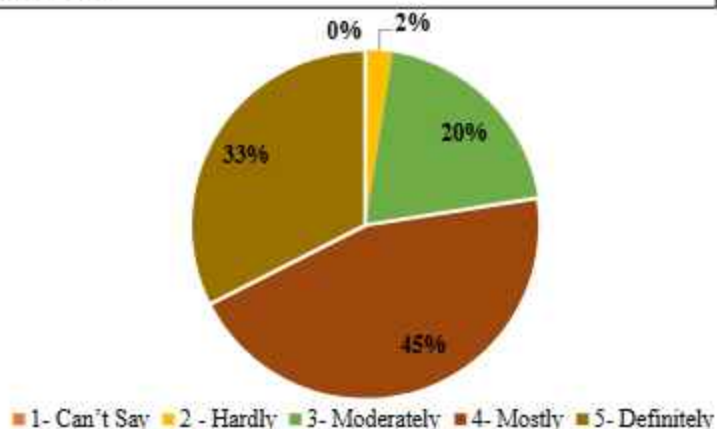
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	12	30
4- Mostly	15	38
5- Definitely	13	33
Total	40	100

CO3 - Apply the knowledge to Plan of national importance structures based upon the previous history.



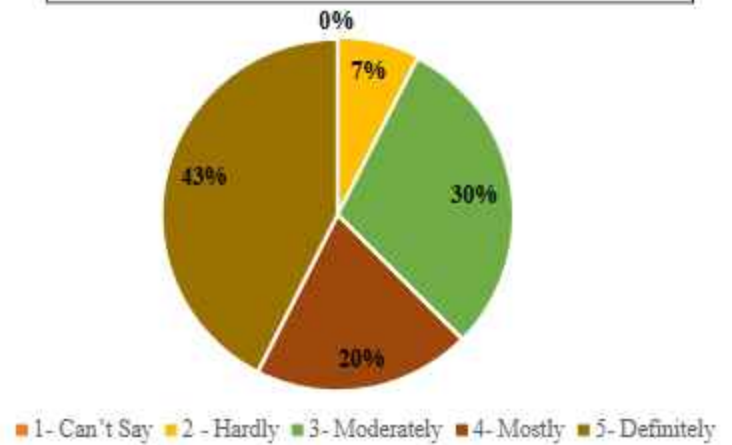
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	3
3- Moderately	8	20
4- Mostly	18	45
5- Definitely	13	33
Total	40	100

CO4 - Get acquainted with government policies, acts and various organizational structures associated with an emergency.



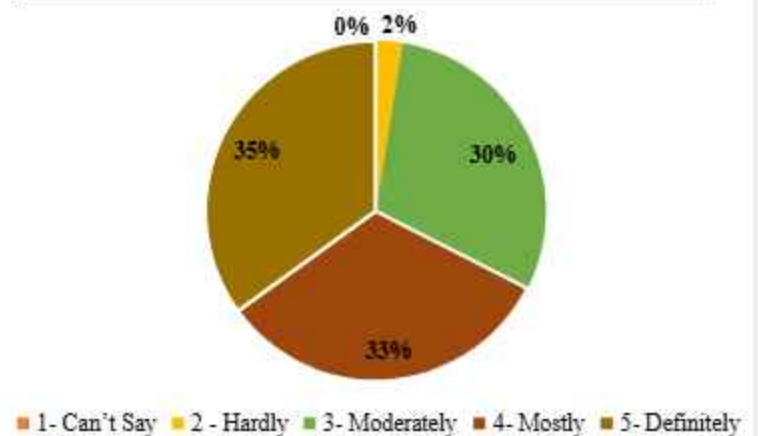
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	3	8
3- Moderately	12	30
4- Mostly	8	20
5- Definitely	17	43
Total	40	100

CO5 - Understand role of organization for financial relief



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	3
3- Moderately	12	30
4- Mostly	13	33
5- Definitely	14	35
Total	40	100

CO6 - Get to know the simple do's and don'ts in such extreme events and act accordingly



  
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Department of Automobile Engineering

Academic Year: 2022-2023(ODD SEM)

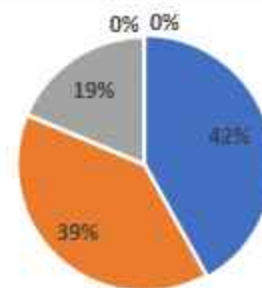
**Course Exit Analysis Report (Sem VII)**

**Subject: Product Lifecycle Management**

Subject In-charge: Prof. Taqui Quazi

Score	No. of Students	Percentage (%)
1- Can't Say	18	42
2 - Hardly	17	40
3- Moderately	8	19
4- Mostly	0	0
5- Definitely	0	0
<b>Total</b>	<b>43</b>	<b>100</b>

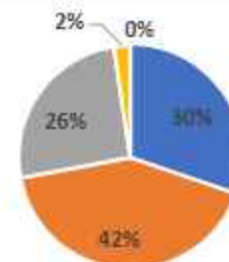
CO1 - Gain knowledge about phases of PLM, PLM strategies and methodology for PLM feasibility study and PDM implementation.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	13	30
2 - Hardly	18	42
3- Moderately	11	26
4- Mostly	1	2
5- Definitely	0	0
<b>Total</b>	<b>43</b>	<b>100</b>

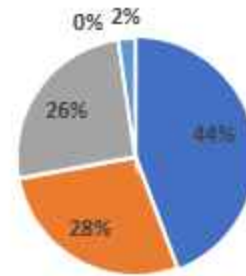
CO2 - Illustrate various approaches and techniques for designing and developing products.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

	No. of Students	Percentage (%)
1- Can't Say	19	44
2 - Hardly	12	28
3- Moderately	11	26
4- Mostly	0	0
5- Definitely	1	2
Total	43	100

CO3 - Apply product engineering guidelines / thumb rules in designing products for moulding, machining, sheet metal working etc.



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	18	42
2 - Hardly	14	33
3- Moderately	10	23
4- Mostly	1	2
5- Definitely	0	0
Total	43	100

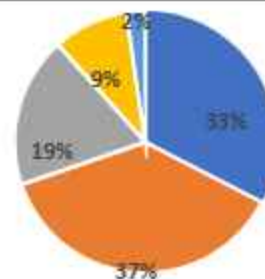
CO4 - Acquire knowledge in applying virtual product development tools for components, machining and manufacturing plant



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	14	33
2 - Hardly	16	37
3- Moderately	8	19
4- Mostly	4	9
5- Definitely	1	2
Total	43	100

CO5 - To create awareness about environmentally responsible product design requirements.

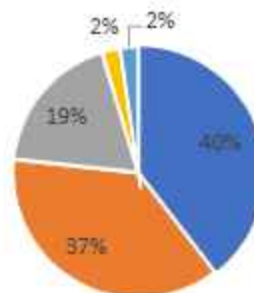


■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely



Score	No. of Students	Percentage (%)
1- Can't Say	17	40
2 - Hardly	16	37
3- Moderately	8	19
4- Mostly	1	2
5- Definitely	1	2
Total	43	100

CO6 - To create awareness about Life cycle Assessment



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

*[Handwritten Signature]*  
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*[Handwritten Signature]*  
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### Action Taken Report on Student's Feedback

Department: Automobile Engineering

Academic Year- 2022-2023

SEM: SEM VII

YEAR: BE

SR No.	Subject	Faculty	Feedback/Concern	Action Taken
1	Automotive Aerodynamics and Aesthetics	Prof. Supriya Khapre	Students need more explanation on road drag and its features	NPTEL Videos for some topics were provided. <a href="https://www.youtube.com/watch?v=NdouX5-KD6Y">https://www.youtube.com/watch?v=NdouX5-KD6Y</a>
2	AD	Prof. Chetan Thakur	Needs deep knowledge of chassis and mechanism of steering	Vedio Link Shared with Students: <a href="https://www.youtube.com/watch?v=QA1OsemRN90">https://www.youtube.com/watch?v=QA1OsemRN90</a>
3	Autotronics	Prof. P. Ingle	Needs detail information about the electronics involved in spark ignition mechanism	Vedio Link Shared with Students: <a href="https://www.youtube.com/watch?v=aDzxqBZ1EAI">https://www.youtube.com/watch?v=aDzxqBZ1EAI</a>
4	CAD/CAM/CAE	Prof. Namita Tangan	Need deep knowledge on projections used in software tools	NPTEL Lecture link is provided to students: <a href="https://www.youtube.com/watch?v=54urJPOnaeU&amp;list=PLYqSpQzTE6M_KQ5MqUkoOqAxxOrdvFOMB">https://www.youtube.com/watch?v=54urJPOnaeU&amp;list=PLYqSpQzTE6M_KQ5MqUkoOqAxxOrdvFOMB</a>

5	Disaster Management and Mitigation	Prof. Neha Sharma	Students require detail knowledge on plastic reuseability	Informative knowledge shared with students and NPTEL video were given to students:  <a href="https://www.youtube.com/watch?v=MvBqCeZllpQ">https://www.youtube.com/watch?v=MvBqCeZllpQ</a>
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**Department of Automobile**

**Engineering Academic Year: 2022-23**

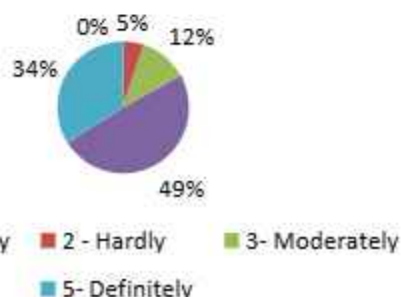
**Course Exit Analysis Report (SEM III)**

**Subject – Engineering Mathematics III**

**Subject Teacher - Prof. Shirish Kulkarni**

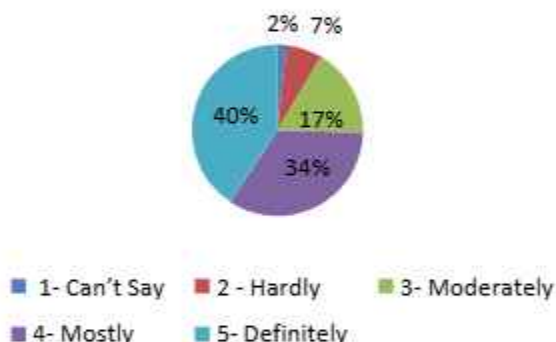
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	3	5.1
3- Moderately	6	11.9
4- Mostly	24	49.2
5- Definitely	17	33.9
Total	49	100

co 1: Have you understood the concept of inverse Laplace transform of various functions in engineering problems.



Score	No. of Students	Percentage (%)
1- Can't Say	1	1.4
2 - Hardly	2	2.7
3- Moderately	7	17.8
4- Mostly	25	52.1
5- Definitely	12	26
Total	49	100

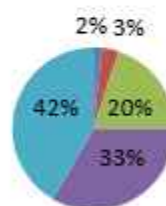
co 2: Are you able to find orthogonal trajectories and analytic function by using basic concepts of complex variable theory.





Score	No. of Students	Percentage (%)
1- Can't Say	1	1.4
2 - Hardly	2	3.4
3- Moderately	16	33.1
4- Mostly	19	39.7
5- Definitely	21	42.4
Total	49	100

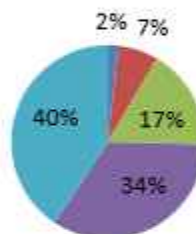
**co3:Are you able to solve Partial differential equations by applying numerical solution and analytical methods for one dimensional heat and wave equations.**



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1.7
2 - Hardly	4	6.8
3- Moderately	8	16.9
4- Mostly	16	33.9
5- Definitely	19	40.7
Total	49	100

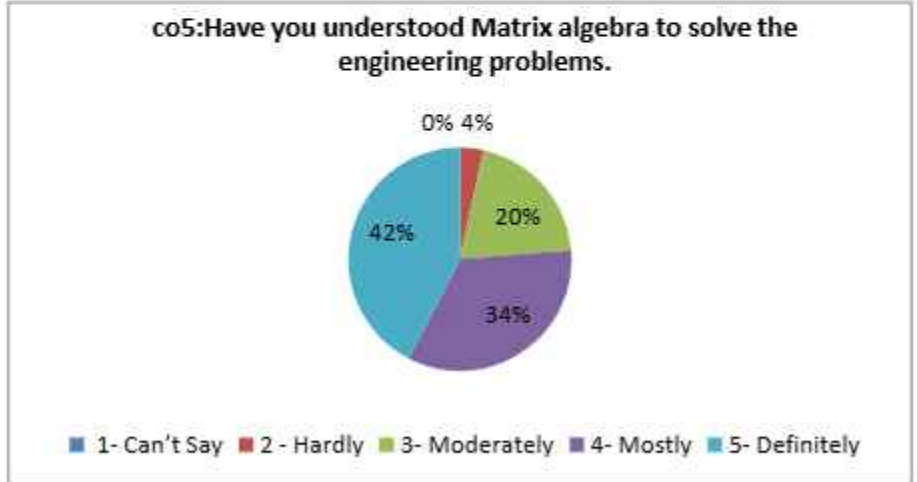
**co4:Are you able to find orthogonal trajectories and analytic function by using basic concepts of complex variable theory.**



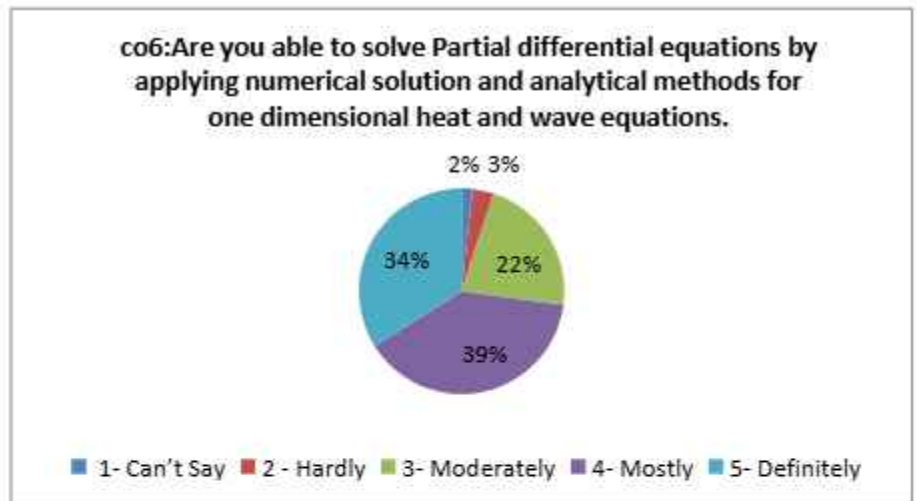
■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	2	3.4
3- Moderately	9	20.3
4- Mostly	16	33.9
5- Definitely	20	42.4
Total	49	100



Score	No. of Students	Percentage (%)
1- Can't Say	1	1.4
2 - Hardly	2	3.4
3- Moderately	09	22
4- Mostly	19	39
5- Definitely	17	33.9
Total	49	100



  
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Department of Automobile Engineering

Academic Year: 2022-2023(ODD SEM)

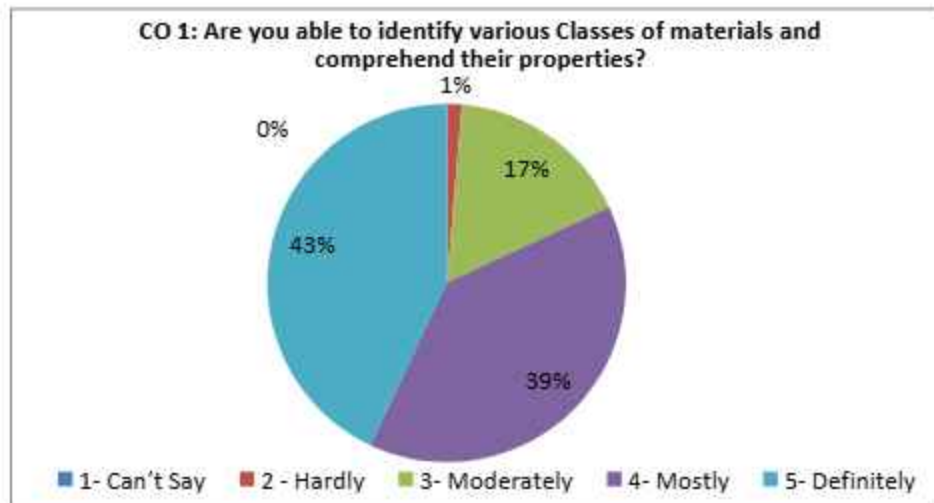
**Course Exit Analysis Report ( Sem III)**

**Subject: Mechanical Measurements**

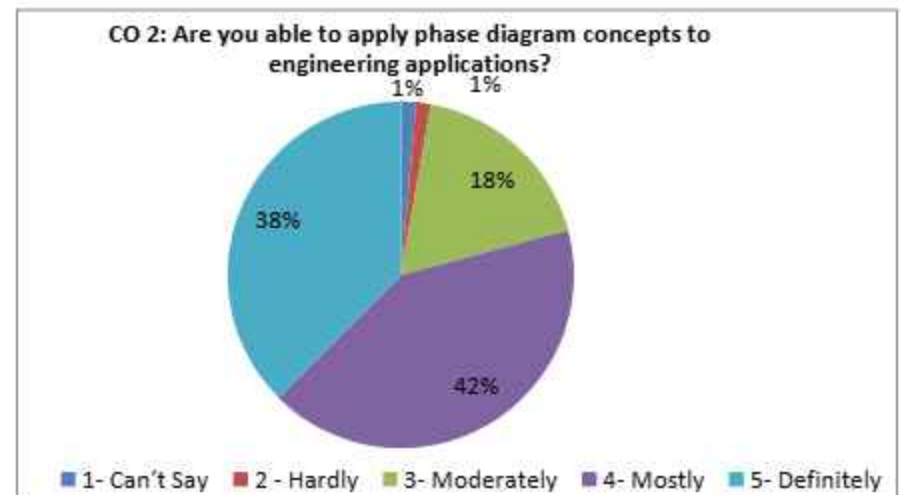
**and Control**

Subject In-charge: Prof. Sagar Khatavkar

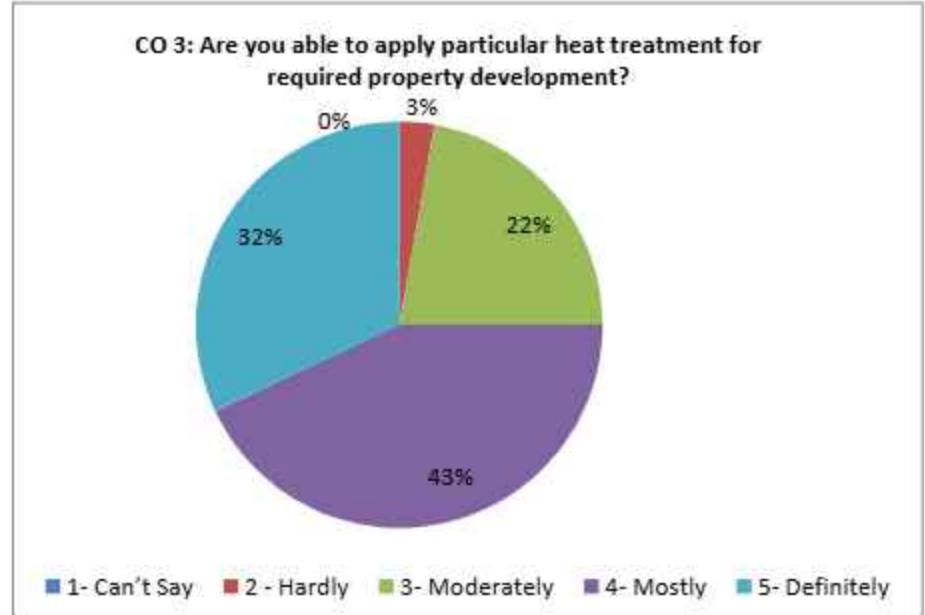
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	1	1
3- Moderately	8	17
4- Mostly	19	39
5- Definitely	21	43
Total	49	100



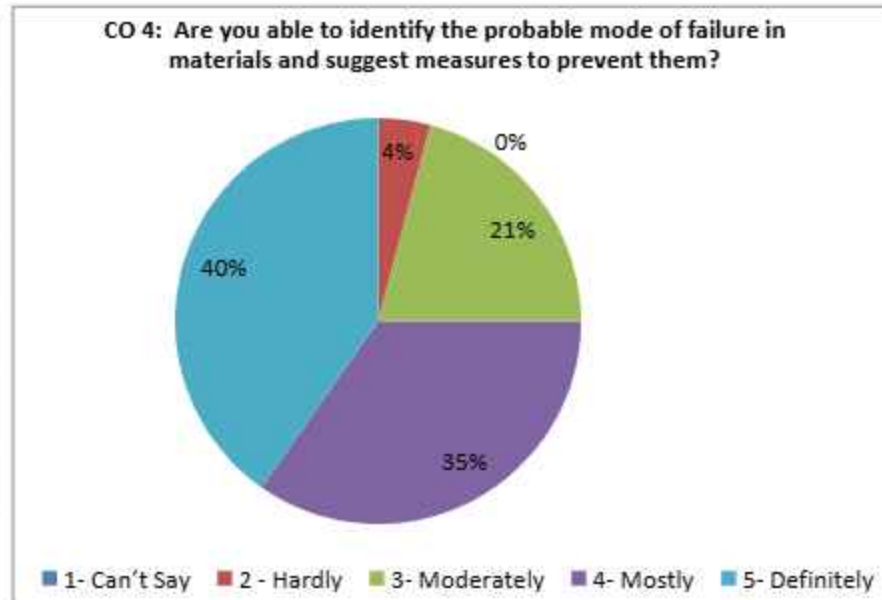
Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	1	1
3- Moderately	8	18
4- Mostly	20	42
5- Definitely	18	38
Total	49	100



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	2	3
3- Moderately	10	22
4- Mostly	21	43
5- Definitely	15	32
Total	49	100

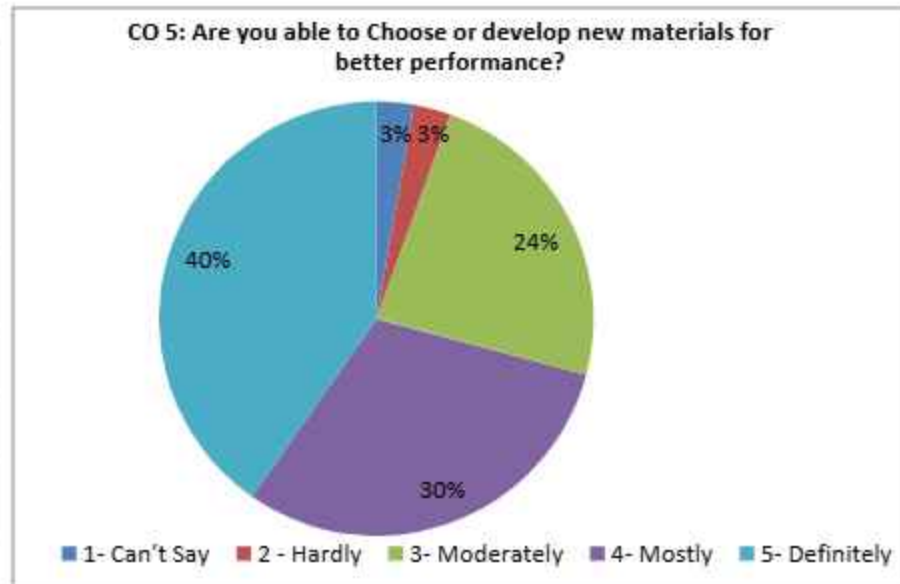


Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	2	4
3- Moderately	10	21
4- Mostly	17	35
5- Definitely	19	40
Total	49	100

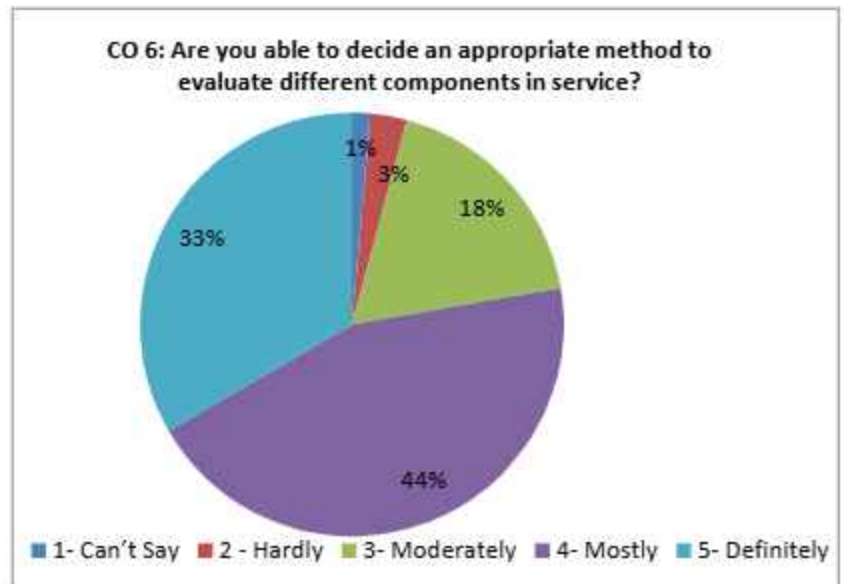




Score	No. of Students	Percentage (%)
1- Can't Say	2	3
2 - Hardly	2	3
3- Moderately	11	24
4- Mostly	15	31
5- Definitely	20	40
Total	49	100



Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	3
3- Moderately	8	18
4- Mostly	20	44
5- Definitely	16	33
Total	72	100



  
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Department of Automobile Engineering

Academic Year: 2022-2023(ODD SEM)

**Course Exit Analysis Report (Sem III)**

**Subject: Strength of Materials**

Subject In-charge: Prof. Sagar Khatavkar

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	0	0
4- Mostly	5	29
5- Definitely	12	71
Total	17	100

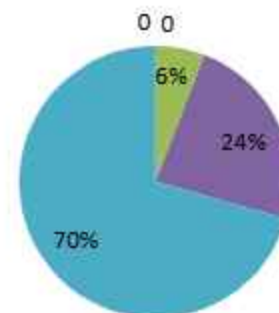
CO 1: Are you able to Analyse the Direct Tensile And Compressive stresses , Temlerature Stresses?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	1	6
4- Mostly	4	24
5- Definitely	12	70
Total	17	100

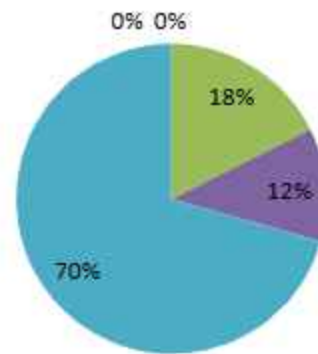
CO 2: Are you able to Anlyse the Shear Force and Bending Moment on different type beams and also are u able to draw the Required SFD , BMD and AFD?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	3	18
4- Mostly	2	12
5- Definitely	12	70
Total	17	100

CO 3: Are you able to find the Bending stresses and Shearing Stress on the different type of Cross Section of the beams?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

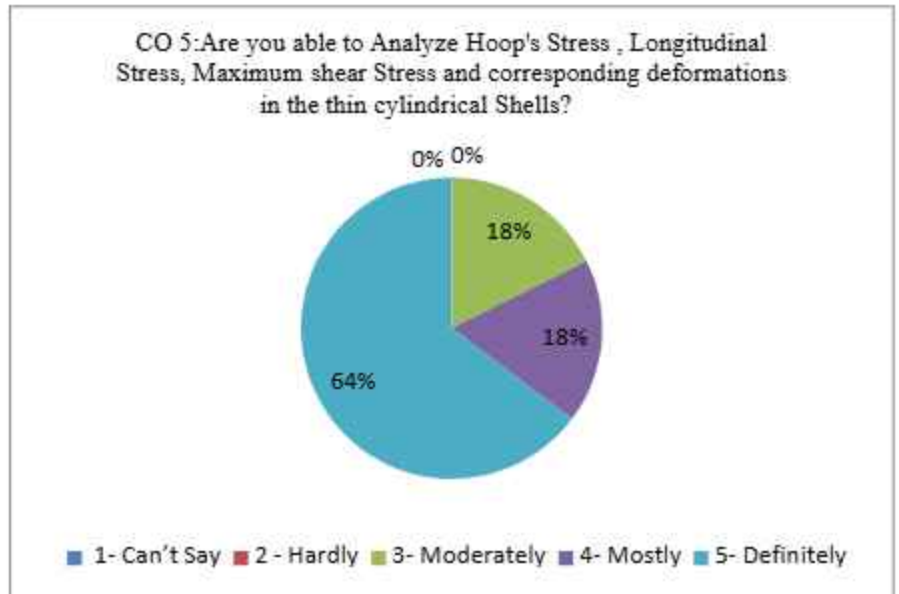
Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	2	12
4- Mostly	5	29
5- Definitely	10	59
Total	17	100

CO 4 :Are you able to Analyse the Torsion in Circular shaft and also the Strain Energy in different types of Loading conditions?

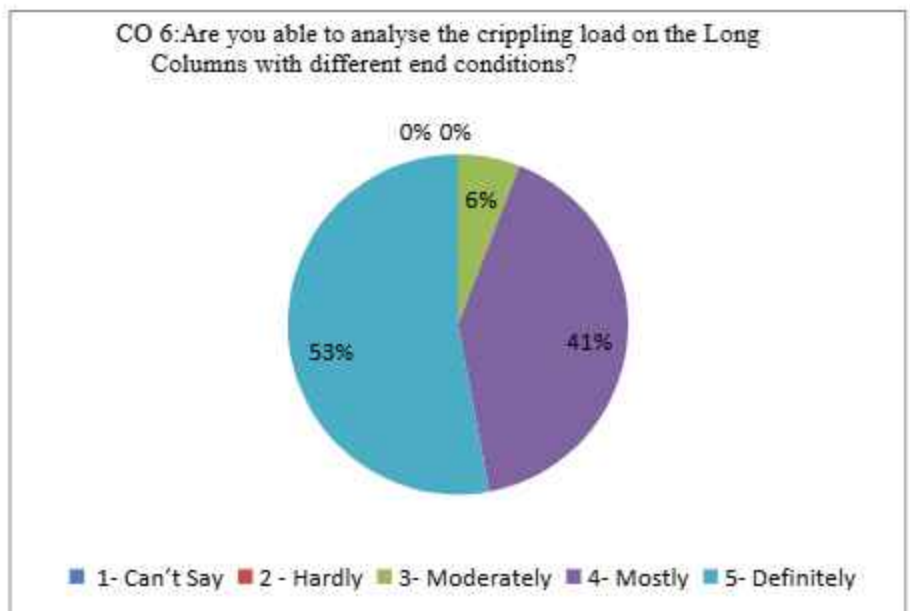


■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	3	18
4- Mostly	3	18
5- Definitely	11	64
Total	17	100



Score	No. of Students	Percentage (%)
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	1	6
4- Mostly	7	41
5- Definitely	9	53
Total	17	100



  
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Department of Automobile Engineering

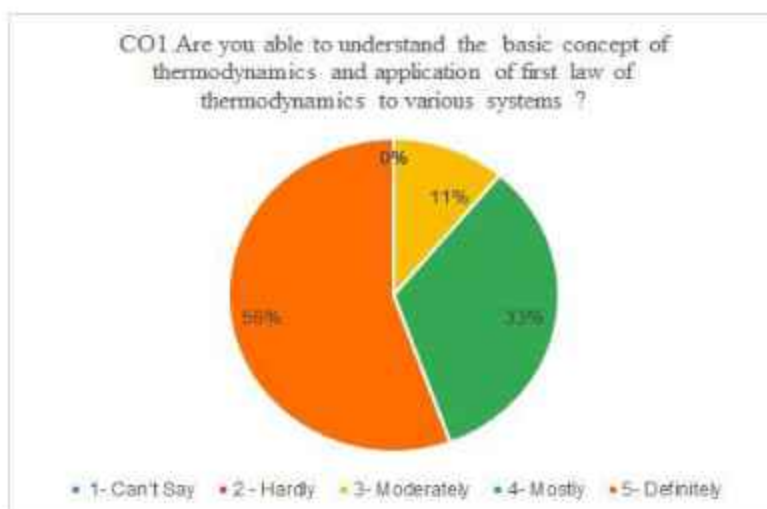
Academic Year: 2022-2023(ODD SEM)

**Course Exit Analysis Report (Sem III)**

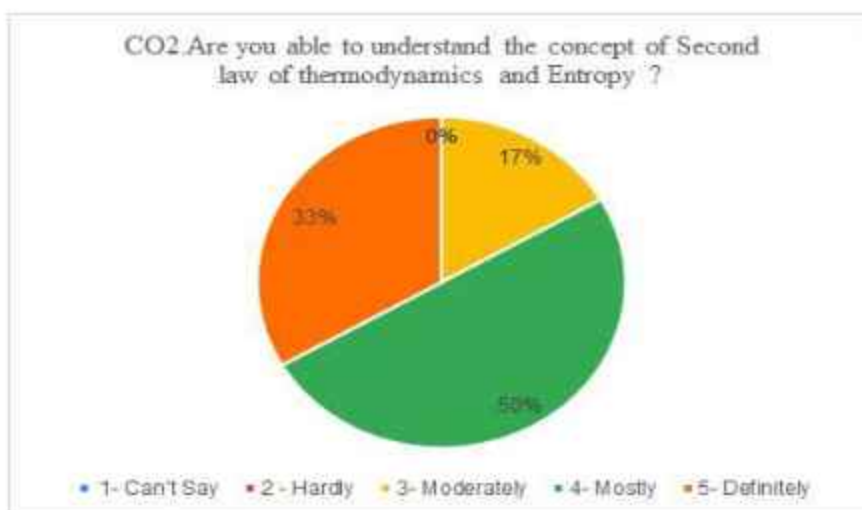
**Subject: Thermodynamics**

**Subject In-charge: Prof. Vishnudas Chodankar**

Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	2	11
4- Mostly	6	33
5- Definitely	10	56
Total	18	100

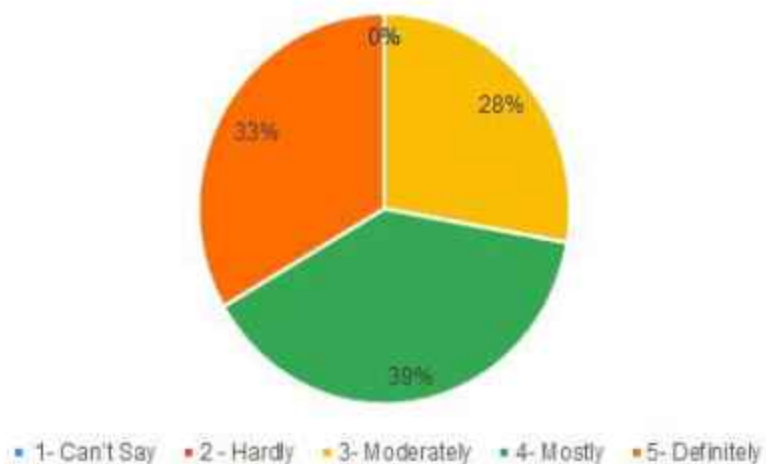


Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	3	17
4- Mostly	9	50
5- Definitely	6	33
Total	18	100



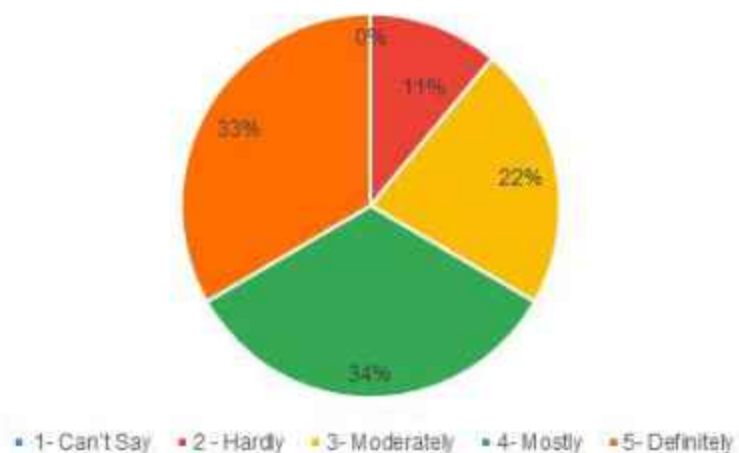
Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	5	28
4- Mostly	7	39
5- Definitely	6	33
Total	18	100

CO3. Are you able to understand the classification of grade of energy ?

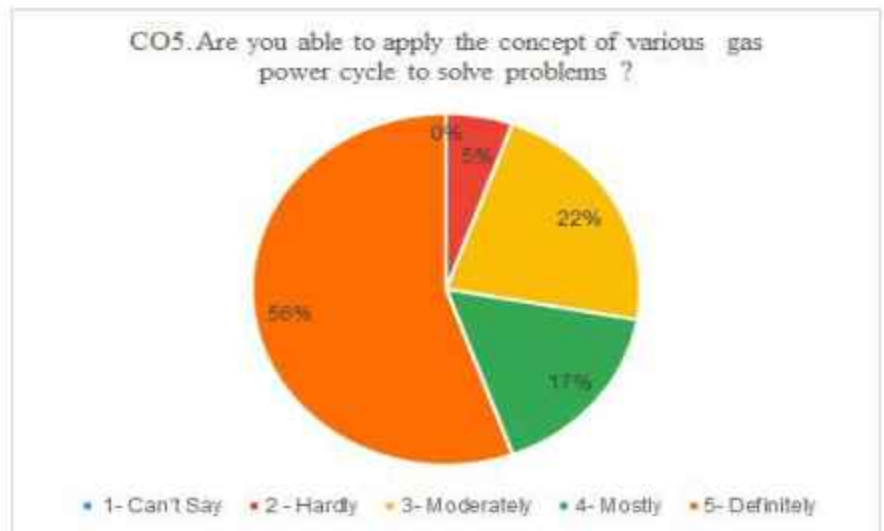


Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	2	11
3- Moderately	4	22
4- Mostly	6	33
5- Definitely	6	33
Total	18	100

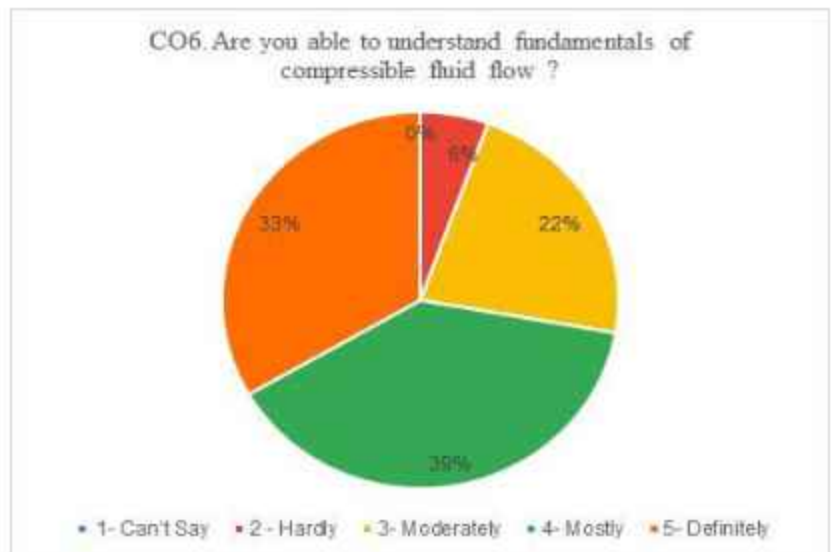
CO4. are you able to understand the basic concepts of steam formation process and vapour power cycles ?



Score	No. of Students	Percentage
1- Can't Say	0	0
2 - Hardly	1	6
3- Moderately	4	22
4- Mostly	3	17
5- Definitely	10	56
Total	18	100



Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	1	6
3- Moderately	4	22
4- Mostly	7	39
5- Definitely	6	33
Total	18	100



  
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**Action Taken Report on Student's Feedback**

**Department: Automobile Engineering**

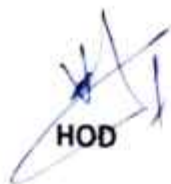
**Academic Year- 2022-2023**

**SEM: SEM III**

**YEAR: SE**

SR NO	Subject	Faculty	Feedback/Concern	Action Take
1	Engineering Mathematics IV	Prof. Shirish Kulkarni	Need to understand dual simplex method via some video content	Video shown to students <a href="https://www.youtube.com/watch?v=6rAZyEF9PYo">https://www.youtube.com/watch?v=6rAZyEF9PYo</a>
2	Mechanical Measurements control	Prof. Nilesh Patil	Difficulty in understanding POWER BJT	Shared Vide link to students: <a href="https://www.youtube.com/watch?v=tNp39_L_HtU">https://www.youtube.com/watch?v=tNp39_L_HtU</a>
3	CAD/CAM	Prof. Sagar Khatavkar	More informative notes about CAD needed	Informative notes for the required topic were provided to students: <a href="https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf">https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf</a>
4	Strength of Materials	Prof. Sagar Khatavkar	More practical session and video contents should be included	Video session has been implemented through projector in lecture: <a href="https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf">https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf</a>

5	Thermodynamics	Prof. Vishnudas Chodankar	Some of the topics like are difficult to understand from student point of view	Online animated Content and NPTEL lecture series on such topics were given to students: <a href="https://www.youtube.com/watch?v=5H0euuo1PGQ&amp;t=55s">https://www.youtube.com/watch?v=5H0euuo1PGQ&amp;t=55s</a>
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**Department of Automobile Engineering Course**

**Exit Analysis Report (ODD SEM V)**

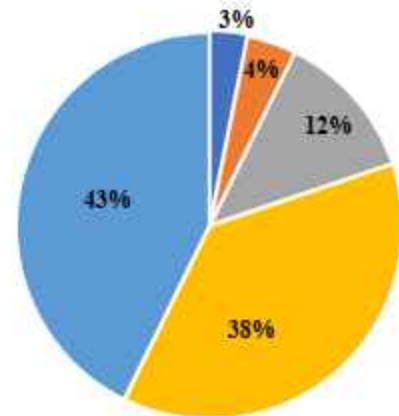
**Academic Year: - 2022-2023**

**Subject: - Automotive System**

**Subject In charge: -Dr. Vishnudas Chodankar**

Score	No. of Students	Percentage(%)
1- Can't Say	20	42
2 - Hardly	18	38
3- Moderately	6	13
4- Mostly	2	4
5- Definitely	2	3
Total	49	100

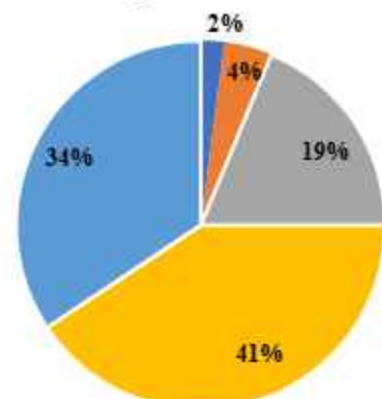
CO1. Are you able to calculate values of various forces involved in machining operations?



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage(%)
1- Can't Say	1	2
2 - Hardly	2	4
3- Moderately	9	19
4- Mostly	20	41
5- Definitely	16	34
Total	49	100

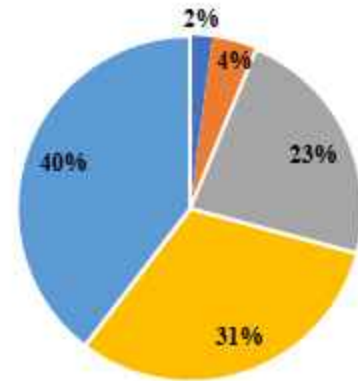
CO2. Are you able to analyze heat generation zones in machining operations as well as coolant required?



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage(%)
1- Can't Say	1	2
2 - Hardly	2	4
3- Moderately	11	23
4- Mostly	15	31
5- Definitely	19	40
Total	49	100

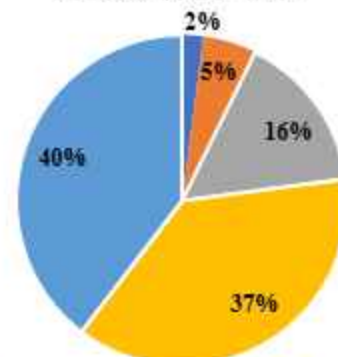
CO3. Are you able to select appropriate tool material for particular machining operation?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage(%)
1- Can't Say	1	2
2 - Hardly	3	5
3- Moderately	8	16
4- Mostly	18	38
5- Definitely	19	40
Total	49	100

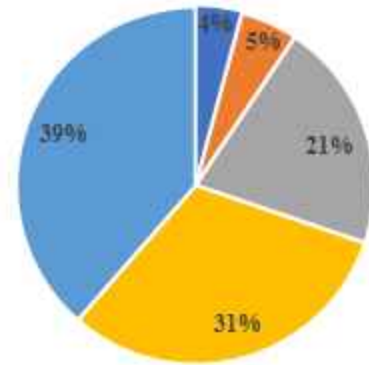
CO4. Are you able to demonstrate the inter-relationship between cutting parameters and machining performance measures such as tool life, surface finish?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage(%)
1- Can't Say	1	2
2 - Hardly	3	6
3- Moderately	8	18
4- Mostly	15	31
5- Definitely	21	43
Total	49	100

CO6. Are you able to design various multipoint cutting tools along with designs of shanks and inserts?

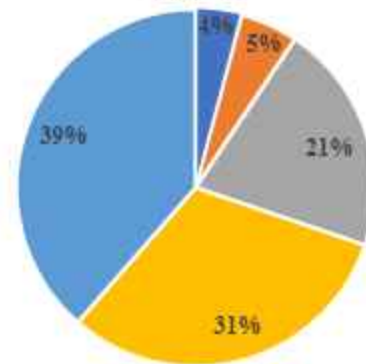


■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely



Score	No. of Students	Percentage(%)
1- Can't Say	2	4
2 - Hardly	3	5
3- Moderately	10	21
4- Mostly	15	31
5- Definitely	19	39
Total	49	100

CO6. Are you able to design various multipoint cutting tools along with designs of shanks and inserts?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

  
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Department of Automobile

Engineering Academic Year: 2022-  
2023(ODD SEM)

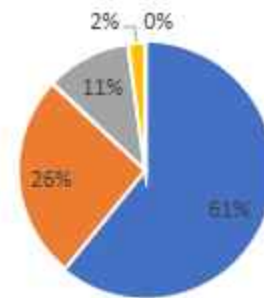
### Course Exit Analysis Report (Sem V)

Subject: HT

Subject In-charge: Prof. Vishnudas Chodankar

Score	No. of Students	Percentage (%)
1- Can't Say	28	61
2 - Hardly	12	26
3- Moderately	5	11
4- Mostly	1	2
5- Definitely	0	0
Total	46	100

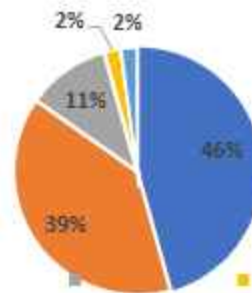
CO 1: Are you able to Identify the three modes of heat transfer



■ 1- Can't Say ■ 2- Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

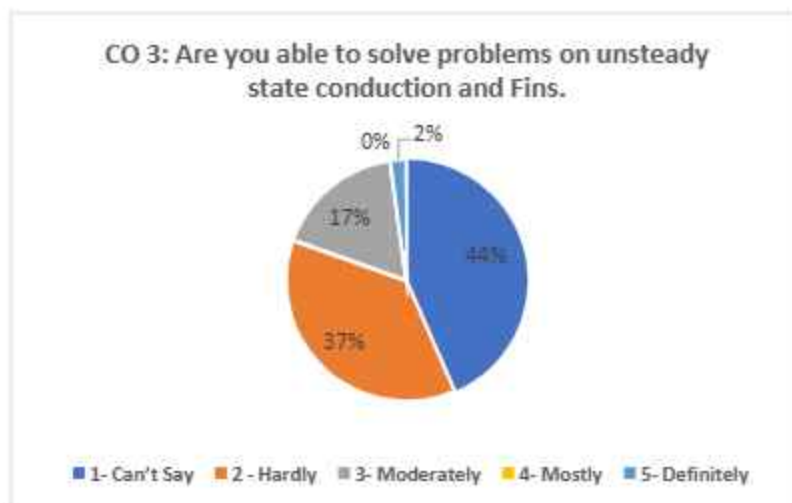
Score	No. of Students	Percentage (%)
1- Can't Say	21	46
2 - Hardly	18	39
3- Moderately	5	11
4- Mostly	1	2
5- Definitely	1	2
Total	46	100

CO2: Are you able to solve problems on steady state conduction.

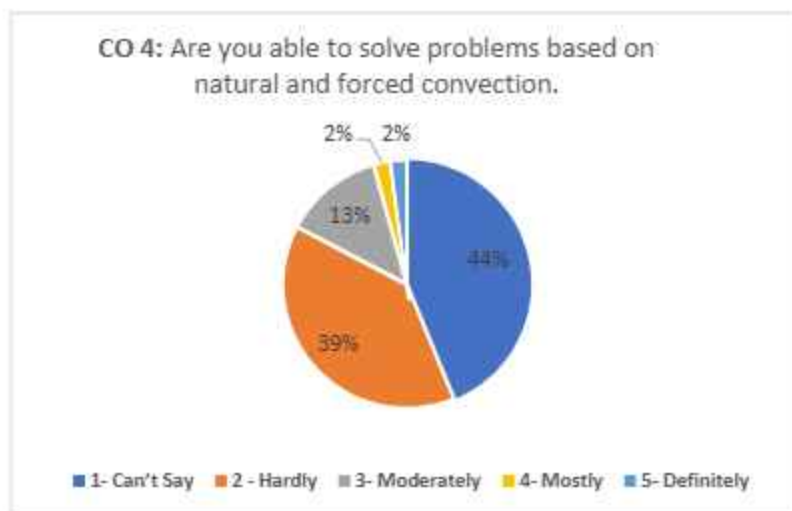


■ 1- Can't Say ■ 2- Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

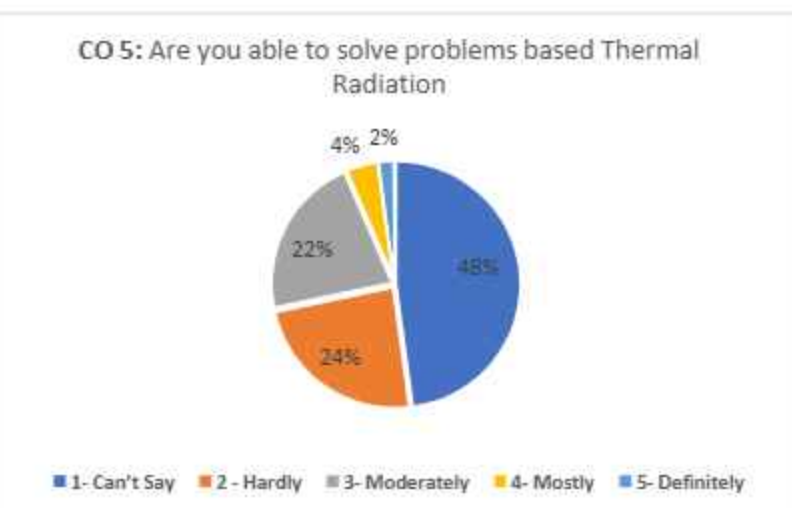
Score	No. of Students	Percentage (%)
1- Can't Say	20	44
2 - Hardly	17	37
3- Moderately	8	17
4- Mostly	0	0
5- Definitely	1	2
<b>Total</b>	<b>46</b>	<b>100</b>



Score	No. of Students	Percentage (%)
1- Can't Say	20	43
2 - Hardly	18	39
3- Moderately	6	13
4- Mostly	1	2
5- Definitely	1	2
<b>Total</b>	<b>46</b>	<b>100</b>



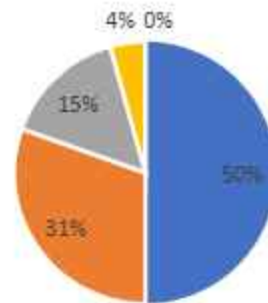
Score	No. of Students	Percentage (%)
1- Can't Say	22	48
2 - Hardly	11	24
3- Moderately	10	22
4- Mostly	2	4
5- Definitely	1	2
<b>Total</b>	<b>46</b>	<b>100</b>





Score	No. of Students	Percentage (%)
1- Can't Say	22	50
2 - Hardly	11	30
3- Moderately	10	15
4- Mostly	2	4
5- Definitely	1	0
Total	46	100

CO 6 Are you able to Analyse different heat exchangers and quantify their performance



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

*[Handwritten Signature]*  
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Saraswati College of Engineering  
Kharghar, Navi Mumbai-410210



Department of Automobile Engineering

Academic Year: 2022-2023(ODD SEM)

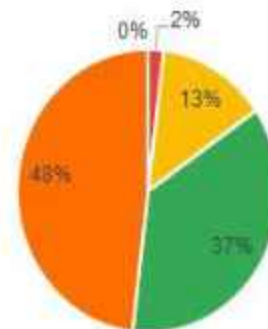
**Course Exit Analysis Report (Sem V)**

**Subject: Internal Combustion Engine**

Subject In-charge: Prof. Amit Patil

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	1	2
3- Moderately	7	13
4- Mostly	19	37
5- Definitely	25	48
Total	52	100

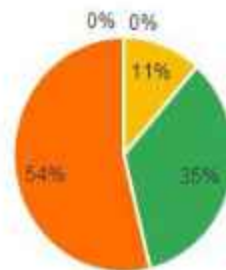
CO1. Are you able to understand air standard fuel cycles and concept to solve problems?



■ 1- Can't Say ■ 2- Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	12
4- Mostly	18	35
5- Definitely	28	54
Total	52	100

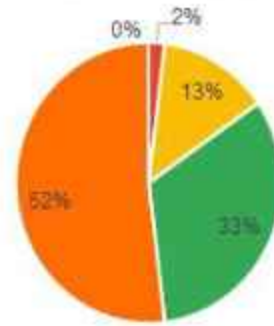
CO2. Are you able to understand SI ENGINE components, emission system and combustion processes?



■ 1- Can't Say ■ 2- Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	1	2
3- Moderately	7	13
4- Mostly	17	33
5- Definitely	27	52
Total	52	100

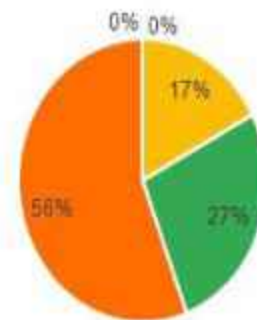
CO3. Are you able to identify CI ENGINE variables and parameters to solve the CI engine problems?



• 1- Can't Say • 2- Hardly • 3- Moderately • 4- Mostly • 5- Definitely

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	9	17
4- Mostly	14	27
5- Definitely	29	56
Total	52	100

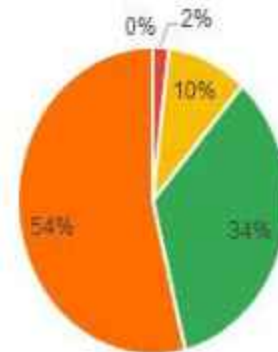
CO4. Are you able to understand lubrication and cooling system used in internal combustion engine?



• 1- Can't Say • 2- Hardly • 3- Moderately • 4- Mostly • 5- Definitely

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	1	2
3- Moderately	5	10
4- Mostly	18	35
5- Definitely	28	54
Total	52	100

CO5. Are you able to understand concept of supercharging and turbocharging ?



• 1- Can't Say • 2- Hardly • 3- Moderately • 4- Mostly • 5- Definitely

Score	No of Student	Percentage
1- Can't Say	1	2
2 - Hardly	1	2
3- Moderately	5	10
4- Mostly	18	35
5- Definitely	27	52
Total	52	100

CO6. Are you able to apply engine performance characteristics to solve the problems?



• 1- Can't Say • 2- Hardly • 3- Moderately • 4- Mostly • 5- Definitely

*[Handwritten Signature]*  
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*[Handwritten Signature]*  
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Department of Automobile Engineering

Academic Year: 2022-2023(ODD SEM)

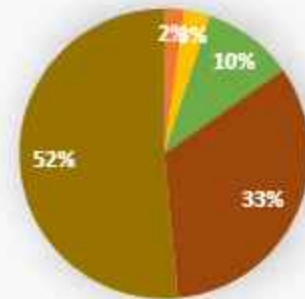
**Course Exit Analysis Report (Sem V)**

**Subject: MMC**

Subject In-charge: Prof. Namita  
Thangan

Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	2	3
3- Moderately	5	10
4- Mostly	16	33
5- Definitely	25	52
Total	49	100

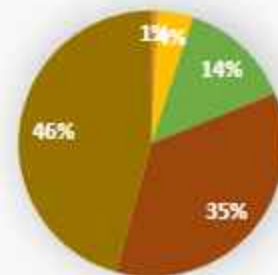
**CO1. Are you able to Apply appropriate instrumentation tools to make measurements of physical quantities**



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	4
3- Moderately	6	14
4- Mostly	17	36
5- Definitely	22	46
Total	49	100

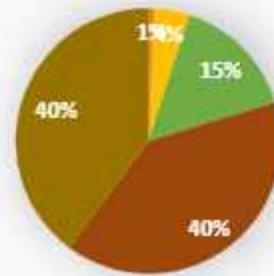
**CO2. Are you able to Identify different fundamentals for solving engineering problems**



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	4
3- Moderately	7	15
4- Mostly	19	40
5- Definitely	19	40
Total	49	100

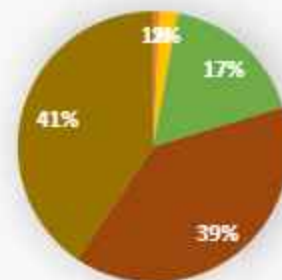
**CO3. Are you able to Analysis of system through the application of various test inputs and generating information for improvisation in design of system**



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	2
3- Moderately	8	17
4- Mostly	19	39
5- Definitely	20	41
Total	49	100

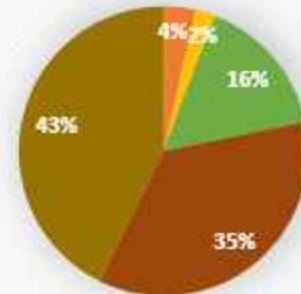
**CO4. Are you able to Apply engineering mathematics and computations to solve mathematical models for control system**



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	2	4
2 - Hardly	1	2
3- Moderately	7	16
4- Mostly	17	36
5- Definitely	21	43
Total	49	100

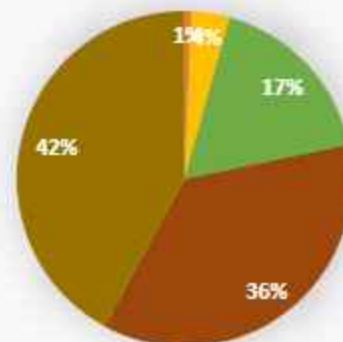
**CO5. Are you able to analyze and evaluate the system in time and frequency domain and interpret the stability**



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	4
3- Moderately	8	17
4- Mostly	17	36
5- Definitely	20	42
Total	49	100

**CO6. Are you able to Apply bode plot techniques to solve mathematical models for control system?**



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

*[Signature]*  
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**Department of Automobile Engineering**

Academic Year: 2022-2023(ODD SEM)

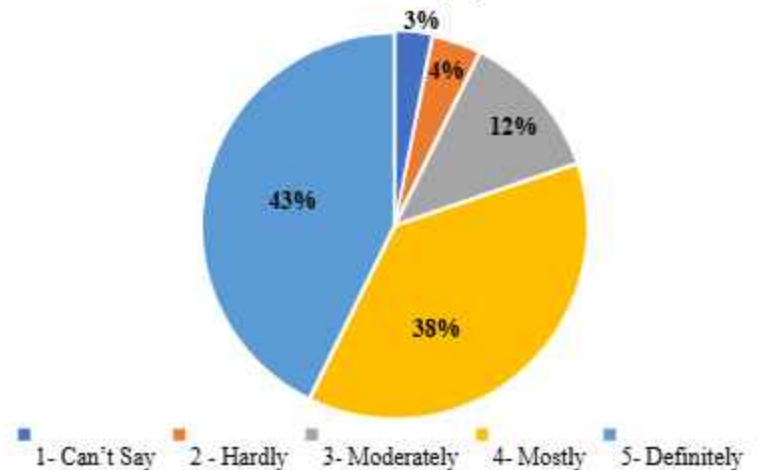
**Course Exit Analysis Report (Sem V)**

**Subject: Press tool Design**

Subject In-charge: Prof. Taqui Quazi

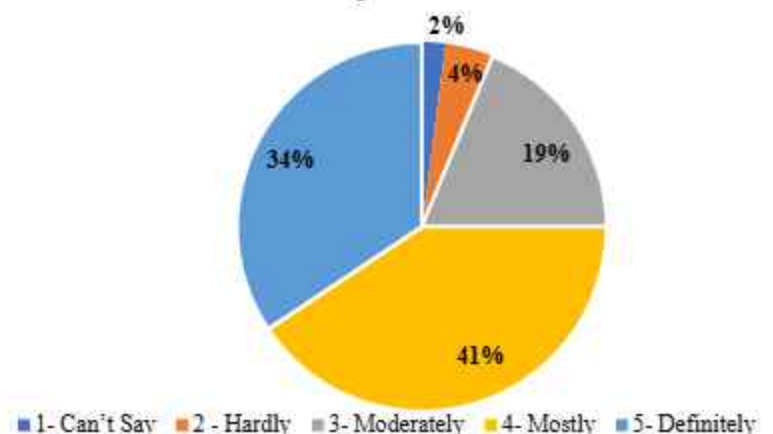
Score	No. of Students	Percentage (%)
1- Can't Say	20	42
2 - Hardly	18	38
3- Moderately	6	13
4- Mostly	2	4
5- Definitely	2	3
<b>Total</b>	<b>49</b>	<b>100</b>

CO1. Are you able to calculate values of various forces involved in machining operations?



Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	2	4
3- Moderately	9	19
4- Mostly	20	41
5- Definitely	16	34
<b>Total</b>	<b>49</b>	<b>100</b>

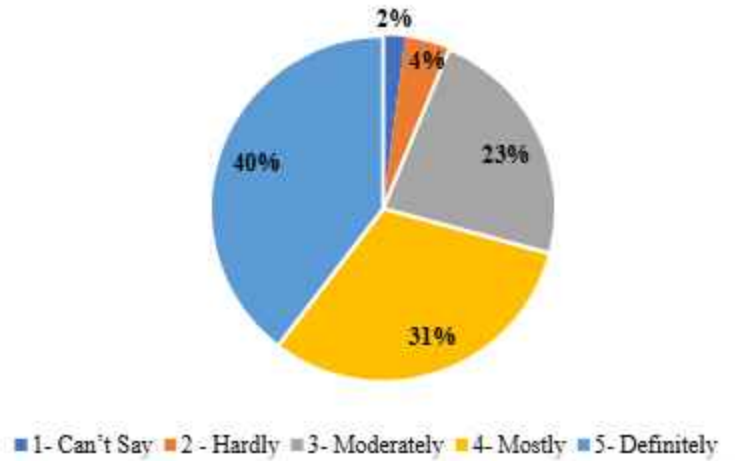
CO2. Are you able to analyze heat generation zones in machining operations as well as coolant required?





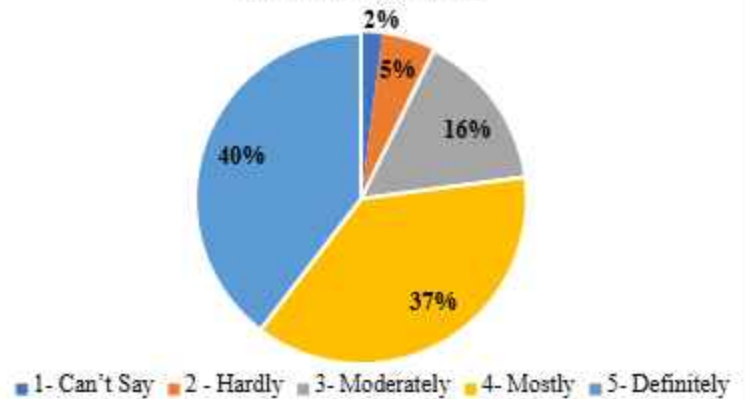
Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	2	4
3- Moderately	11	23
4- Mostly	15	31
5- Definitely	19	40
Total	49	100

CO3. Are you able to select appropriate tool material for particular machining operation?



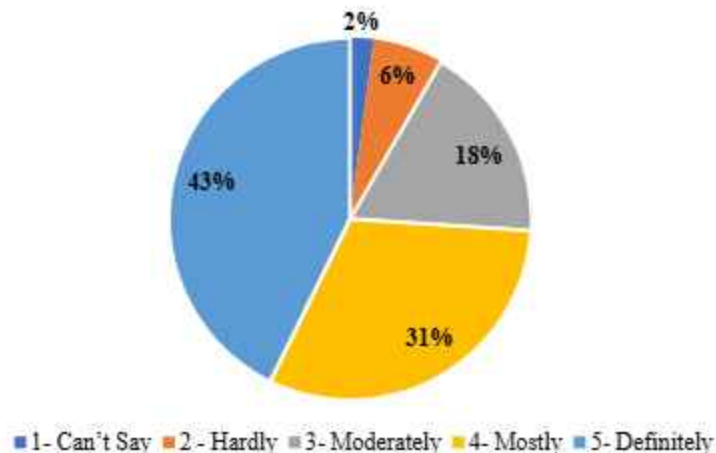
Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	3	5
3- Moderately	8	16
4- Mostly	18	38
5- Definitely	19	40
Total	49	100

CO4. Are you able to demonstrate the inter-relationship between cutting parameters and machining performance measures such as tool life, surface finish?



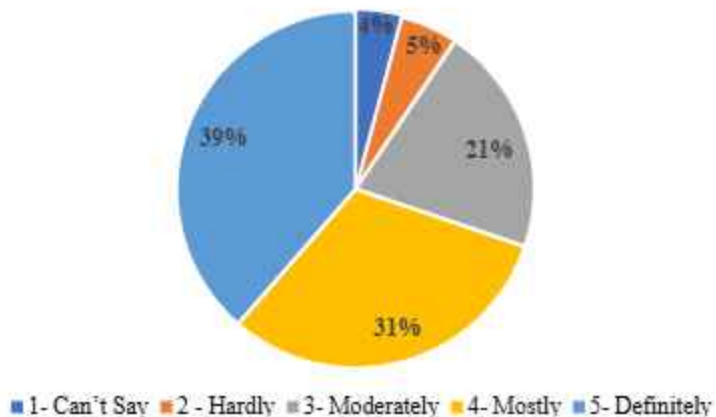
Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	3	6
3- Moderately	8	18
4- Mostly	15	31
5- Definitely	21	43
Total	49	100

CO5. Are you able to design various single point cutting tool and its nomenclatures?



Score	No. of Students	Percentage (%)
1- Can't Say	2	4
2 - Hardly	3	5
3- Moderately	10	21
4- Mostly	15	31
5- Definitely	19	39
Total	49	100

CO6. Are you able to design various multipoint cutting tools along with designs of shanks and inserts?



  
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**Department of Automobile Engineering Course**

**Exit Analysis Report (ODD SEM V)**

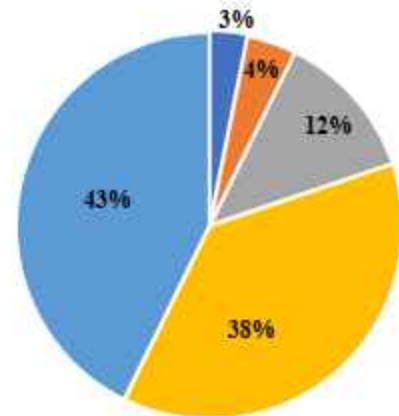
**Academic Year: - 2022-2023**

**Subject: - Automotive System**

**Subject In charge: -Dr. Vishnudas Chodankar**

Score	No. of Students	Percentage(%)
1- Can't Say	20	42
2 - Hardly	18	38
3- Moderately	6	13
4- Mostly	2	4
5- Definitely	2	3
Total	49	100

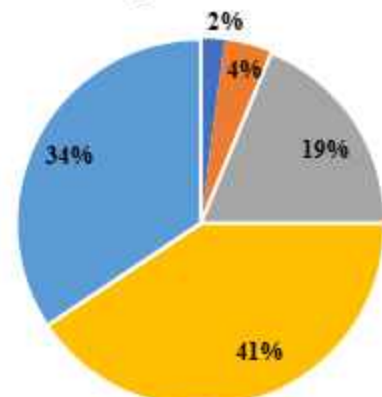
CO1. Are you able to calculate values of various forces involved in machining operations?



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage(%)
1- Can't Say	1	2
2 - Hardly	2	4
3- Moderately	9	19
4- Mostly	20	41
5- Definitely	16	34
Total	49	100

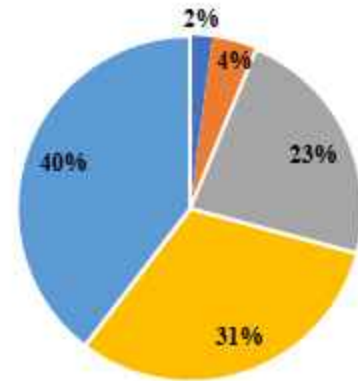
CO2. Are you able to analyze heat generation zones in machining operations as well as coolant required?



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage(%)
1- Can't Say	1	2
2 - Hardly	2	4
3- Moderately	11	23
4- Mostly	15	31
5- Definitely	19	40
Total	49	100

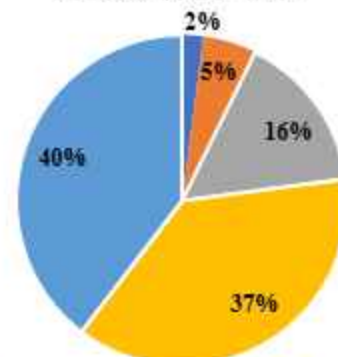
CO3. Are you able to select appropriate tool material for particular machining operation?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage(%)
1- Can't Say	1	2
2 - Hardly	3	5
3- Moderately	8	16
4- Mostly	18	38
5- Definitely	19	40
Total	49	100

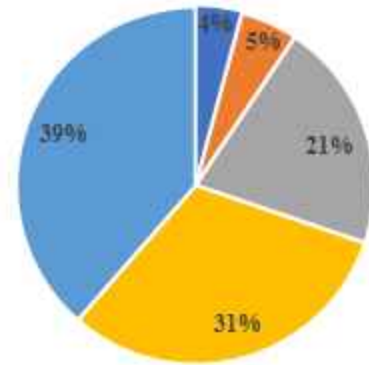
CO4. Are you able to demonstrate the inter-relationship between cutting parameters and machining performance measures such as tool life, surface finish?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage(%)
1- Can't Say	1	2
2 - Hardly	3	6
3- Moderately	8	18
4- Mostly	15	31
5- Definitely	21	43
Total	49	100

CO6. Are you able to design various multipoint cutting tools along with designs of shanks and inserts?

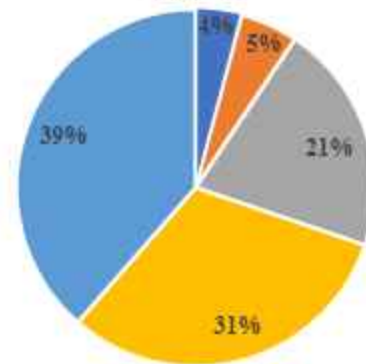


■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely



Score	No. of Students	Percentage(%)
1- Can't Say	2	4
2 - Hardly	3	5
3- Moderately	10	21
4- Mostly	15	31
5- Definitely	19	39
Total	49	100

CO6. Are you able to design various multipoint cutting tools along with designs of shanks and inserts?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

  
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Department of Automobile

Engineering Academic Year: 2022-  
2023(ODD SEM)

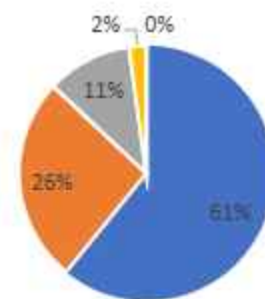
### Course Exit Analysis Report (Sem V)

Subject: HT

Subject In-charge: Prof. Vishnudas Chodankar

Score	No. of Students	Percentage (%)
1- Can't Say	28	61
2 - Hardly	12	26
3- Moderately	5	11
4- Mostly	1	2
5- Definitely	0	0
Total	46	100

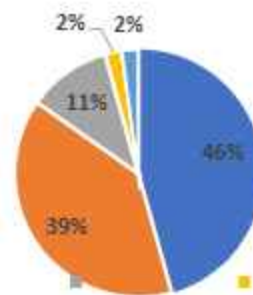
CO 1: Are you able to Identify the three modes of heat transfer



■ 1- Can't Say ■ 2- Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

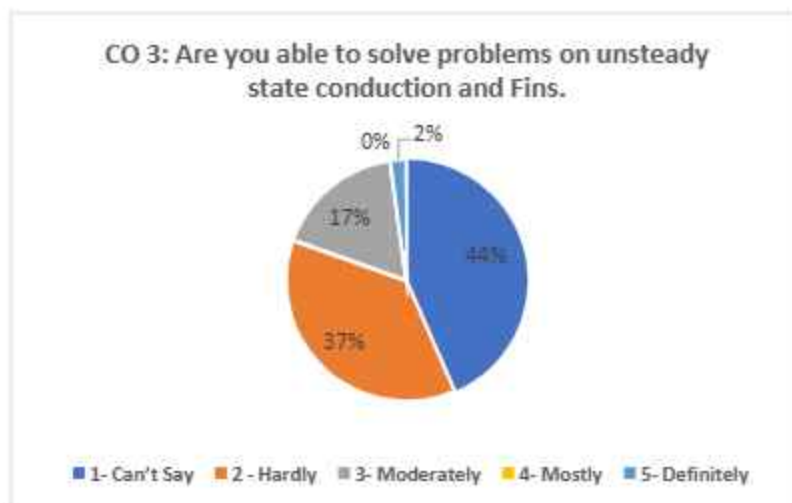
Score	No. of Students	Percentage (%)
1- Can't Say	21	46
2 - Hardly	18	39
3- Moderately	5	11
4- Mostly	1	2
5- Definitely	1	2
Total	46	100

CO2: Are you able to solve problems on steady state conduction.

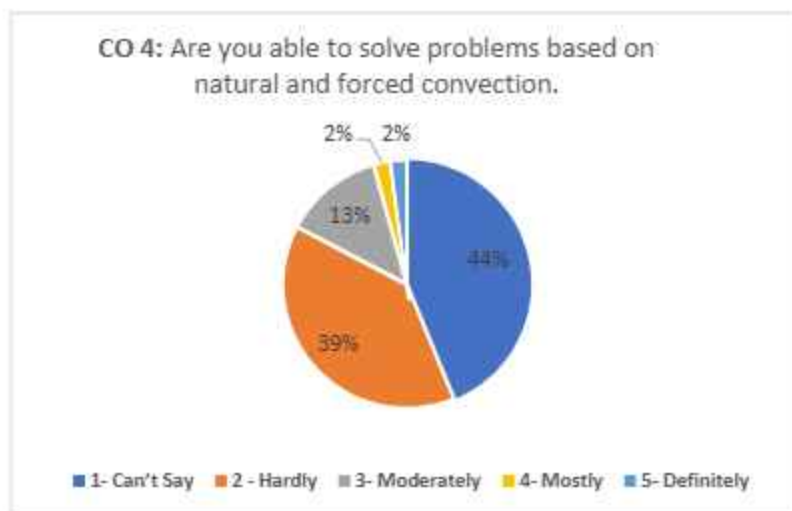


■ 1- Can't Say ■ 2- Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

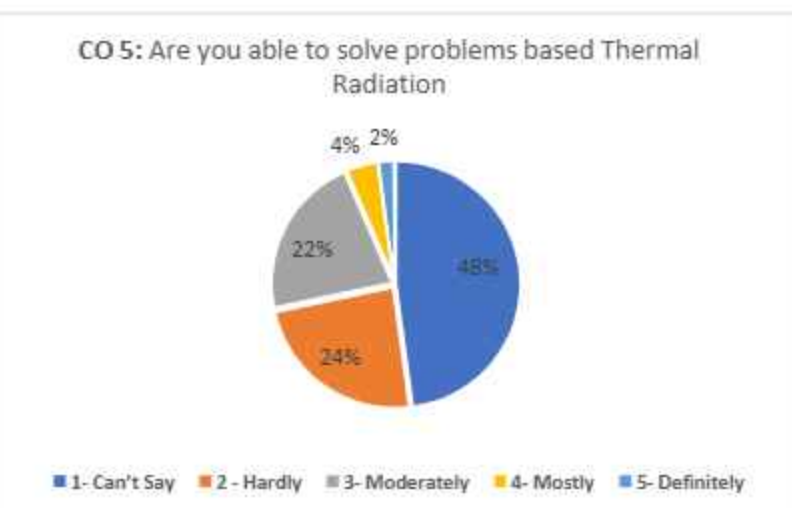
Score	No. of Students	Percentage (%)
1- Can't Say	20	44
2 - Hardly	17	37
3- Moderately	8	17
4- Mostly	0	0
5- Definitely	1	2
Total	46	100



Score	No. of Students	Percentage (%)
1- Can't Say	20	43
2 - Hardly	18	39
3- Moderately	6	13
4- Mostly	1	2
5- Definitely	1	2
Total	46	100



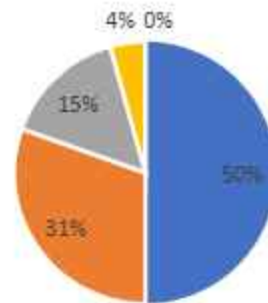
Score	No. of Students	Percentage (%)
1- Can't Say	22	48
2 - Hardly	11	24
3- Moderately	10	22
4- Mostly	2	4
5- Definitely	1	2
Total	46	100





Score	No. of Students	Percentage (%)
1- Can't Say	22	50
2 - Hardly	11	30
3- Moderately	10	15
4- Mostly	2	4
5- Definitely	1	0
Total	46	100

CO 6 Are you able to Analyse different heat exchangers and quantify their performance



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

*[Handwritten Signature]*  
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Department of Automobile Engineering

Academic Year: 2022-2023(ODD SEM)

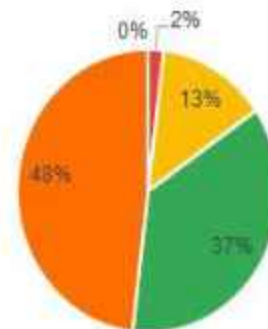
**Course Exit Analysis Report (Sem V)**

**Subject: Internal Combustion Engine**

Subject In-charge: Prof. Amit Patil

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	1	2
3- Moderately	7	13
4- Mostly	19	37
5- Definitely	25	48
Total	52	100

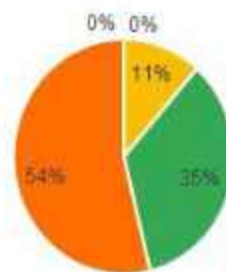
CO1. Are you able to understand air standard fuel cycles and concept to solve problems?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	6	12
4- Mostly	18	35
5- Definitely	28	54
Total	52	100

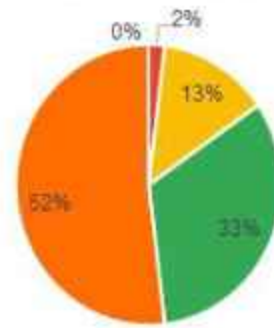
CO2. Are you able to understand SI ENGINE components, emission system and combustion processes?



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	1	2
3- Moderately	7	13
4- Mostly	17	33
5- Definitely	27	52
Total	52	100

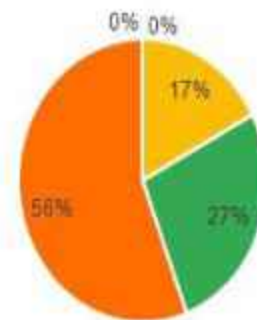
CO3. Are you able to identify CI ENGINE variables and parameters to solve the CI engine problems?



• 1- Can't Say • 2- Hardly • 3- Moderately • 4- Mostly • 5- Definitely

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	0	0
3- Moderately	9	17
4- Mostly	14	27
5- Definitely	29	56
Total	52	100

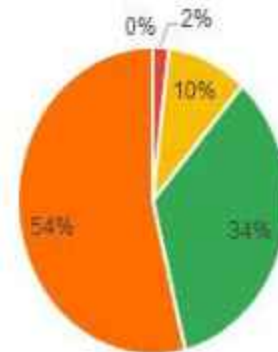
CO4. Are you able to understand lubrication and cooling system used in internal combustion engine?



• 1- Can't Say • 2- Hardly • 3- Moderately • 4- Mostly • 5- Definitely

Score	No of Student	Percentage
1- Can't Say	0	0
2 - Hardly	1	2
3- Moderately	5	10
4- Mostly	18	35
5- Definitely	28	54
Total	52	100

CO5. Are you able to understand concept of supercharging and turbocharging ?



• 1- Can't Say • 2- Hardly • 3- Moderately • 4- Mostly • 5- Definitely

Score	No of Student	Percentage
1- Can't Say	1	2
2 - Hardly	1	2
3- Moderately	5	10
4- Mostly	18	35
5- Definitely	27	52
Total	52	100

CO6. Are you able to apply engine performance characteristics to solve the problems?



• 1- Can't Say • 2- Hardly • 3- Moderately • 4- Mostly • 5- Definitely

*[Handwritten Signature]*  
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Department of Automobile Engineering

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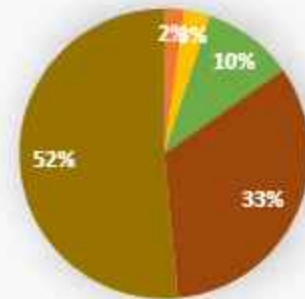
Course Exit Analysis Report (Sem V)

Subject: MMC

Subject In-charge: Prof. Namita  
Thangan

Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	2	3
3- Moderately	5	10
4- Mostly	16	33
5- Definitely	25	52
Total	49	100

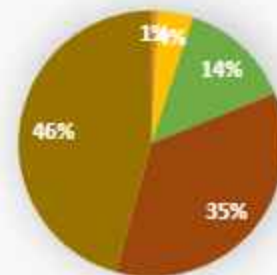
CO1. Are you able to Apply appropriate instrumentation tools to make measurements of physical quantities



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	4
3- Moderately	6	14
4- Mostly	17	36
5- Definitely	22	46
Total	49	100

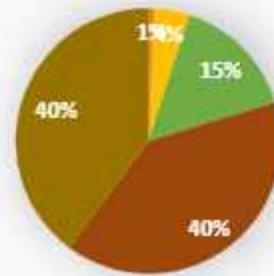
CO2. Are you able to Identify different fundamentals for solving engineering problems



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	4
3- Moderately	7	15
4- Mostly	19	40
5- Definitely	19	40
Total	49	100

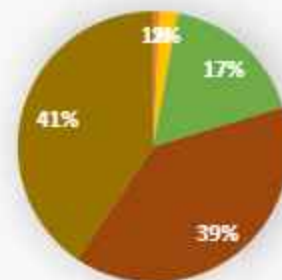
**CO3. Are you able to Analysis of system through the application of various test inputs and generating information for improvisation in design of system**



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	2
3- Moderately	8	17
4- Mostly	19	39
5- Definitely	20	41
Total	49	100

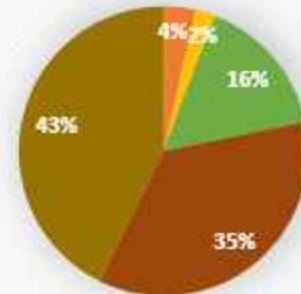
**CO4. Are you able to Apply engineering mathematics and computations to solve mathematical models for control system**



1- Can't Say 2 - Hardly 3- Moderately 4- Mostly 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	2	4
2 - Hardly	1	2
3- Moderately	7	16
4- Mostly	17	36
5- Definitely	21	43
Total	49	100

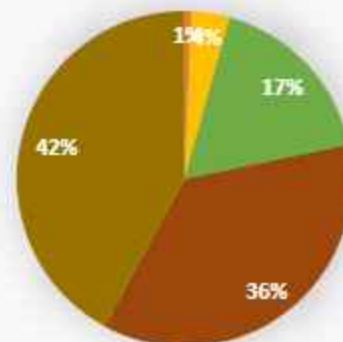
**CO5. Are you able to analyze and evaluate the system in time and frequency domain and interpret the stability**



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

Score	No. of Students	Percentage (%)
1- Can't Say	1	1
2 - Hardly	2	4
3- Moderately	8	17
4- Mostly	17	36
5- Definitely	20	42
Total	49	100

**CO6. Are you able to Apply bode plot techniques to solve mathematical models for control system?**



■ 1- Can't Say ■ 2 - Hardly ■ 3- Moderately ■ 4- Mostly ■ 5- Definitely

  
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**Department of Automobile Engineering**

Academic Year: 2022-2023(ODD SEM)

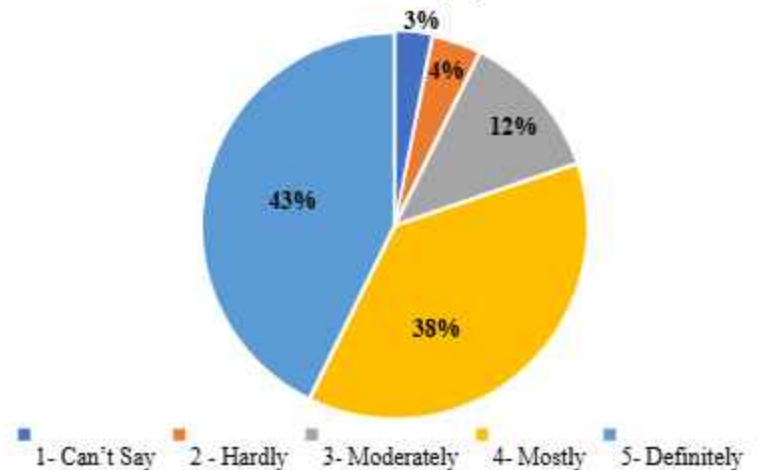
**Course Exit Analysis Report (Sem V)**

**Subject: Press tool Design**

Subject In-charge: Prof. Taqui Quazi

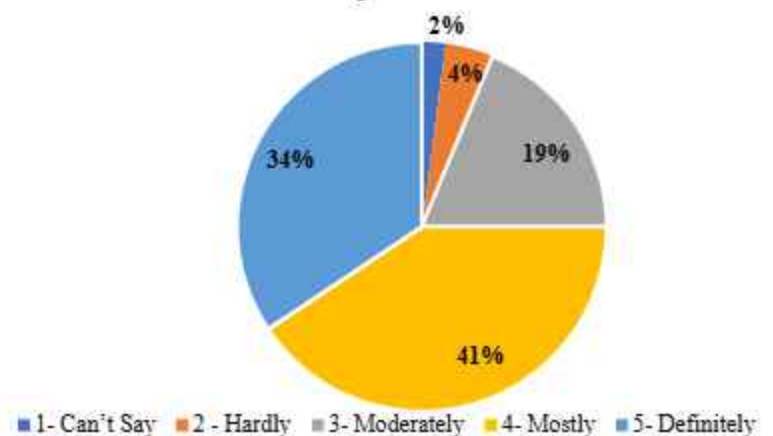
Score	No. of Students	Percentage (%)
1- Can't Say	20	42
2 - Hardly	18	38
3- Moderately	6	13
4- Mostly	2	4
5- Definitely	2	3
<b>Total</b>	<b>49</b>	<b>100</b>

CO1. Are you able to calculate values of various forces involved in machining operations?



Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	2	4
3- Moderately	9	19
4- Mostly	20	41
5- Definitely	16	34
<b>Total</b>	<b>49</b>	<b>100</b>

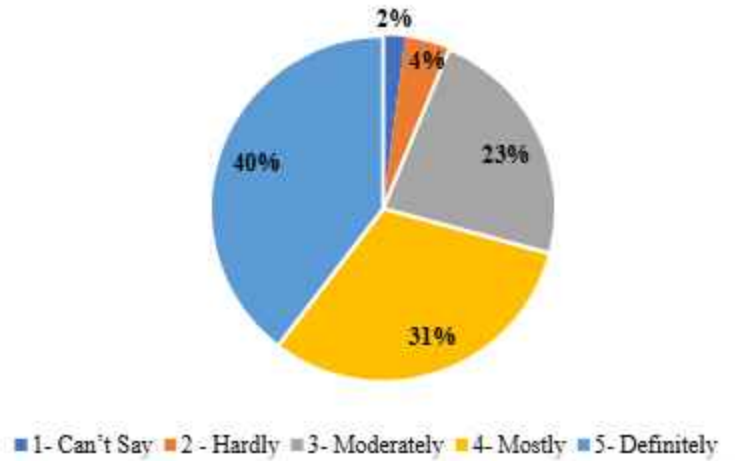
CO2. Are you able to analyze heat generation zones in machining operations as well as coolant required?





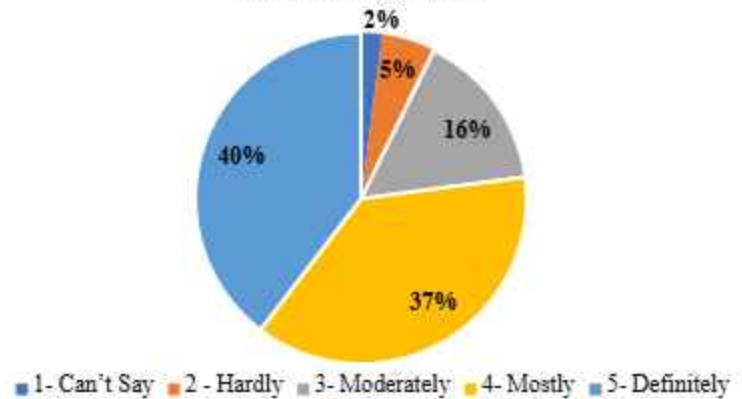
Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	2	4
3- Moderately	11	23
4- Mostly	15	31
5- Definitely	19	40
Total	49	100

CO3. Are you able to select appropriate tool material for particular machining operation?



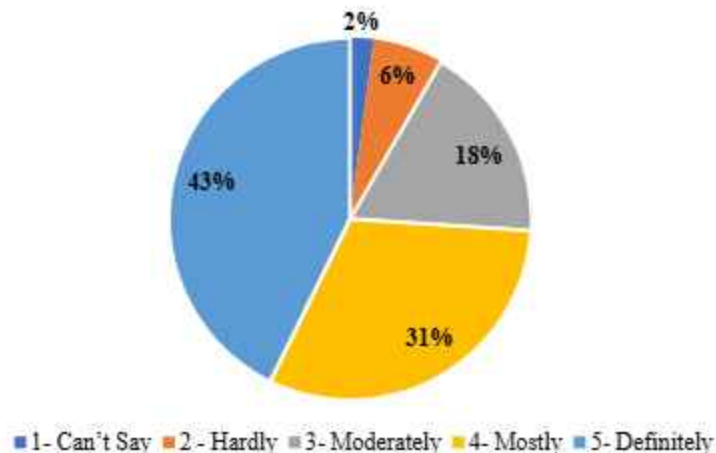
Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	3	5
3- Moderately	8	16
4- Mostly	18	38
5- Definitely	19	40
Total	49	100

CO4. Are you able to demonstrate the inter-relationship between cutting parameters and machining performance measures such as tool life, surface finish?



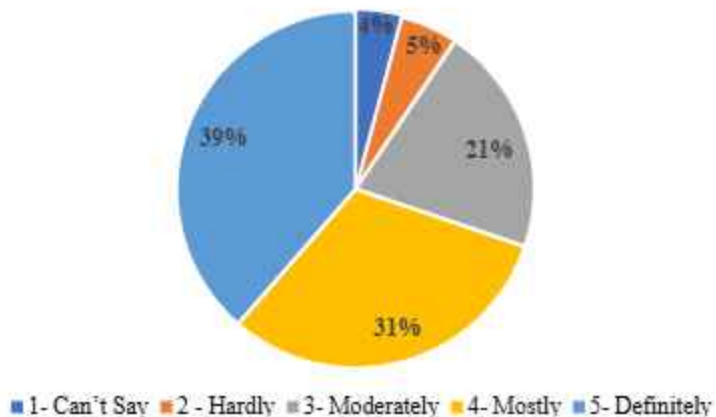
Score	No. of Students	Percentage (%)
1- Can't Say	1	2
2 - Hardly	3	6
3- Moderately	8	18
4- Mostly	15	31
5- Definitely	21	43
Total	49	100

CO5. Are you able to design various single point cutting tool and its nomenclatures?



Score	No. of Students	Percentage (%)
1- Can't Say	2	4
2 - Hardly	3	5
3- Moderately	10	21
4- Mostly	15	31
5- Definitely	19	39
Total	49	100

CO6. Are you able to design various multipoint cutting tools along with designs of shanks and inserts?



  
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**Action Taken Report on Student's Feedback**

**Department: Automobile Engineering**

**Academic Year- 2022-2023**

**SEM: SEM V**

**YEAR: TE**

SR NO	Subject	Faculty	Feedback/Concern	Action Take
1	MMC	Prof. Namita thangan	Need to understand screw gauge and advance method via some video content	Video shown to students <a href="https://www.youtube.com/watch?v=6rAZyEF9PYo">https://www.youtube.com/watch?v=6rAZyEF9PYo</a>
2	Automotive System	Prof. Vishnudas Chodankar	Difficulty in understanding POWER BJT	Shared Vide link to students: <a href="https://www.youtube.com/watch?v=tNp39_L_HtU">https://www.youtube.com/watch?v=tNp39_L_HtU</a>
3	Internal Combustion Engine	Prof. Amit Patil	More informative notes about two stroke engine	Informative notes for the required topic were provided to students: <a href="https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf">https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf</a>
4	HT	Prof. Vishnudas Chodankar	More practical session and video contents should be included on convection	Video session has been implemented through projector in lecture: <a href="https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf">https://www.vssut.ac.in/lecture_notes/lecture1530947994.pdf</a>

5	Press tool Design	Prof. Taqui Quazi	Some of the topics like die pressing are difficult to understand from student point of view	Online animated Content and NPTEL lecture series on such topics were given to students:  <a href="https://www.youtube.com/watch?v=5H0euiu1PGQ&amp;t=55s">https://www.youtube.com/watch?v=5H0euiu1PGQ&amp;t=55s</a>
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HOD

  
Principal