LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING (AUTONOMOUS)
L.B.Reddy Nagar, Mylavaram -521 230, Krishna Dist., A.P.
DEPARTMENT OF MECHANICAL ENGINEERING

Attainment of Course outcomes, Program Outcomes and Program Specific Outcomes

Date: 15-02-2020

Faculty Name	K.V.Viswanadh	**Designation**	Sr. Asst. professor
Course Name	Mechanics of Solids	**Academic Year**	2019-20
Course Code	17ME04	**Semester**	III
Program & Admitted Year	B. Tech & 2018 Admitted Batch	**Section**	A,B & C

COURSE OUTCOMES:

After the completion of the course, the student should be able to,

17ME04.1	Compute the stresses & deformations of a member due to axial loading under uniform and non uniform conditions.
17ME04.2	Analyze the variation of SF & BM in determinate beams.
17ME04.3	Analyze the structural members subjected to flexural and torsional loads.
17ME04.4	Analyze the biaxial stresses developed at a point of stressed member and identify shear stresses across the cross section of a beam.
17ME04.5	Evaluate deflections for statically determinate beams and analyze the thin and thick pressure vessels.

Attainment of Course Outcomes through Internal Assessment:

CIE Attainment						
		CO1	CO2	CO3	CO4	CO5
MID-I	Q1a	46.02				
	Q1b	53.04				
	Q1c	55.39				
	Q1d					
	Q2a		52.32			
	Q2b		43.19			
	Q2c					
	Q2d					
	Q3a	61.67				
	Q3b	56.90				
	Q3c		60.47			
	Q3d		49.19			
MID-II	Q1a			57.26		
	Q1b			74		
	Q1c			66		
	Q1d					
	Q2a				40	
	Q2b				62.07	
	Q2c				55.18	
	Q2d				58.83	
	Q3a					50.65
	Q3b					28.99
	Q3c					85.3
	Q3d					57.15
MID Attainment		**54.7**	**51.3**	**65.8**	**54.1**	**55.6**
Assignment	A1	98.89				

	A2		99.45			
	A3			98.33		
	A4				97.21	
	A5					95.54
Assignment Attainment		**98.9**	**99.5**	**98.4**	**97.3**	**95.6**
Quiz	Q1	62.57	62.57			
	Q2			63.13	63.13	63.13
Quiz Attainment		**62.6**	**62.6**	**63.2**	**63.2**	**63.2**

Attainment of Course Outcomes through External Exam Assessment:

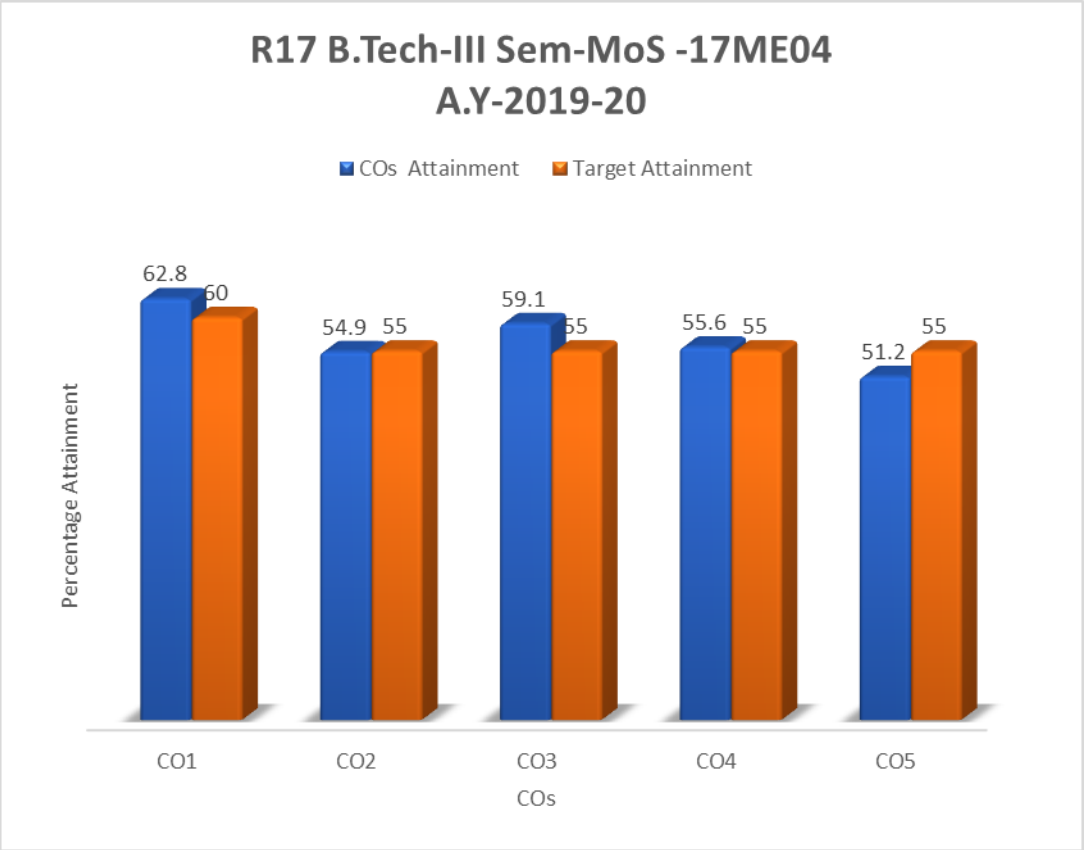
SEE Attainment					
	CO1	CO2	CO3	CO4	CO5
Q1a	66.08				
Q1b	66.31				
Q1c	68.43				
Q1d	51.73				
Q2a		48.94			
Q2b		54.88			
Q2c		50.3			
Q2d					
Q3a			66.11		
Q3b			37.38		
Q3c			50.48		
Q3d			54.46		
Q4a				53.75	
Q4b				52.39	
Q4c				46.88	
Q4d				52.31	
Q5a					38.16
Q5b					40
Q5c					51.01
Q5d					45.08
SEE Attainment	**63.2**	**51.4**	**52.2**	**51.4**	**43.6**

Final Attainment of Course Outcomes:

Final CO Attainment					
	CO1	CO2	CO3	CO4	CO5
MID Attainment	54.7	51.3	65.8	54.1	55.6
Assignment Attainment	98.9	99.5	98.4	97.3	95.6
Quiz Attainment	62.6	62.6	63.2	63.2	63.2
SEE Attainment	63.2	51.4	52.2	51.4	43.6
COs Attainment	**62.8**	**54.9**	**59.1**	**55.6**	**51.2**

Final CO Attainment Values – MoS-17ME04					
COs	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Final COs Attainment (%)	62.8	54.9	59.1	55.6	51.2
Target (%)	60	55	55	55	55

Observation and Action taken:
It is observed that CO5 is not attained. Conduct the remedial class to the students on this topic. Formula sheet is given to students to concentrate more on Unit-5.



	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3		2	1								1			3
CO2	1	3	2	1								1			3
CO3	1	3	2									1			3
CO4	2	3	1									1		1	3
CO5	3	3	2	1								1		1	3
PO Attain. (%)	56.72	55.20	56.85	56.30								56.72		53.40	56.72

Course Instructors	Course Coordinator	Module Coordinator	HOD
Dr. P.V.Chandra Sekhara Rao, Dr. Y.Appala Naidu, K.V.Viswanadh	K.V.Viswanadh	Dr.Y.Appala Naidu	Dr. S.Pichi Reddy

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DEPARTMENT OF MECHANICAL ENGINEERING

B.Tech. III Sem. Subject Name: ***Mechanics of Solids*** A.Y: 2019-20

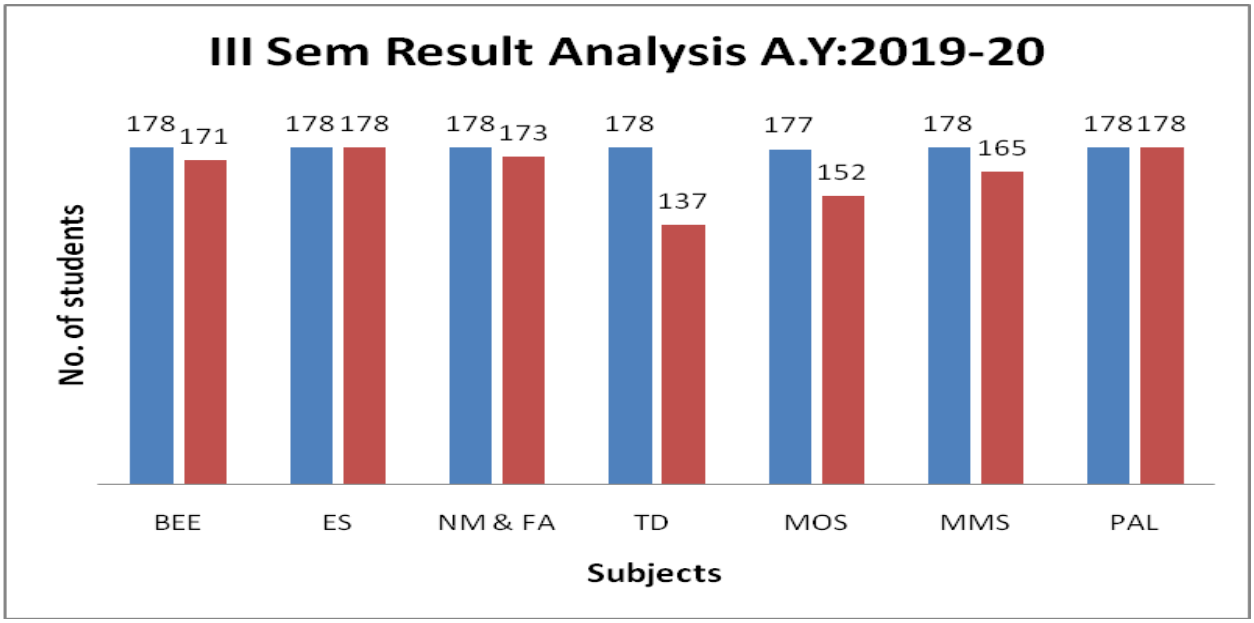

Fig:1 Result Analysis of B.Tech-III-Sem Subject wise

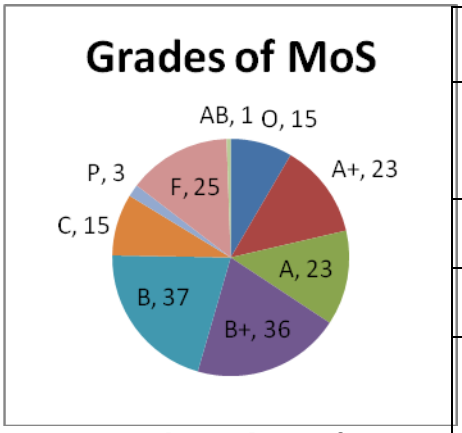

Fig :2 Grade Analysis of MoS

Table 1. Attainments of COs- Mechanics of Solids

CO No.	Statement of CO	Target	Attained
CO1	Compute the stresses & deformations of a member due to axial loading under uniform and non uniform conditions.	60%	62.8%
CO2	Analyze the variation of SF & BM in determinate beams.	55%	54.9%
CO3	Analyze the structural members subjected to flexural and torsional loads.	55%	59.1%
CO4	Analyze the biaxial stresses developed at a point of stressed member and identify shear stresses across the cross section of a beam.	55%	55.6%
CO5	Evaluate deflections for statically determinate beams and analyze the thin and thick pressure vessels.	55%	51.2%

Action Suggested / Recommendations:

1. Conduct more tutorial classes.
2. Use ICT tools for better understanding of subject.
3. Concentrate on previous question papers.
4. Solving more problems.

Course Instructor Course Co-ordinator Module Co-ordinator HoD