

ADITYA ENGINEERING COLLEGE(A)															
COURSE INPUT DATA															
ACADEMIC YEAR	2020-21					SEMESTER					V				
BRANCH	MECHANICAL ENGINEERING					REGULATION					AR17				
COURSE	METAL CUTTING AND MACHINE TOOLS					COURSE CODE					171ME5T09				
COURSE INSTRUCTOR	Dr. Sandip Kumar														
COURSE OUTCOMES															
CO1	Apply cutting mechanics to metal machining based on cutting force and power consumption														
CO2	Explain working of Lathe, Shaper, Slotter and Planar machine.														
CO3	Select appropriate machining processes and tool geometries in drilling and milling machines														
CO4	Classify jigs and fixtures, Principles of location and finishing processes.														
CO5	Discuss principles of industrial safety and maintenance of machine tools														
COURSE OUTCOME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	3	1				1						1	1		
CO2	3	1				1						1	1		
CO3	3	2				1						1	1		
CO4	3	1				1						1	1		
CO5	3	1				1						1	1		
MAPPING STRENGTH	3.00	1.20				1.00						1.00	1.00		
ACHIEVEMENT TARGETS FOR COURSE OUTCOMES															
CO1	60.00%	1.80													
CO2	60.00%	1.80													
CO3	60.00%	1.80													
CO4	60.00%	1.80													
CO5	60.00%	1.80													
Signature of the Course Instructor								Sandip Kumar							
Name & Signature of Course Coordinator								Sandip Kumar							
Name & Signature of HOD								Dr. Bh.V. Prasad, Prasad							


PRINCIPAL
ADITYA ENGINEERING COLLEGE
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ADITYA ENGINEERING COLLEGE(A)								
SESSIONAL -1 DATA								
ACADEMIC YEAR	2020-21			SEMESTER			V	
BRANCH	MECHANICAL ENGINEERING			REGULATION			AR17	
COURSE NAME	METAL CUTTING AND MACHINE TOOLS			COURSE CODE			171ME5T09	
DATE OF THE EXAMINATION	1/25/2021			SESSIONAL			I	
COURSE INSTRUCTOR	Dr. Sandip Kumar							
	Descriptive-I						Assignment-I	Objective-I
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
17A91A0393	1	3	2				6	7
18A91A0358	4	4	3	2	3	4	6	9
18A91A0359	2	4	3	4		2	6	9
18A91A0360	4	3	4	3	4	3	6	8
18A91A0361	3	4	3	1	2	2	6	8
18A91A0362	2	3	2	2	2	2	6	8
18A91A0363	2	2	2	2		2	6	6
18A91A0364	2	4					6	7
18A91A0365	2	3	2		3	2	6	9
18A91A0366	2	3	3	3	3	4	6	9
18A91A0367	3	4	4	2	3	3	6	4
18A91A0368	2				1		6	9
18A91A0369	2	4	2	1	2	2	6	9
18A91A0370	2	3	2	2	2	2	6	10
18A91A0371	2	3	3	2	2	3	6	10
18A91A0372	2	3	3	3	3	3	6	9
18A91A0373	2	3	2	2	2	2	6	8
18A91A0374	4	4	3	3	3	3	6	8
18A91A0375	2	1			3	2	6	9
18A91A0376	2	2			3	2	6	9
18A91A0377	3	2	2		1	3	6	9
18A91A0378	3	3	3		4	2	6	8
18A91A0379	2	3	2		3	2	6	9
18A91A0380	3	4	2	2	3	3	6	8


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18A91A0381	3	4	3	3	4		6	9
18A91A0382	3	4	4	4	4	4	6	9
18A91A0383	3	4	3	2	2	2	6	9
18A91A0384	2	3	3		3	2	6	9
18A91A0385	4	3	4		2	3	6	9
18A91A0386	3	4	3	3	3	3	6	9
18A91A0387	2	3	1	1		2	6	6
18A91A0388	2	3	1			2	6	7
18A91A0389	1			3		2	6	7
18A91A0390	1			1		3	6	7
18A91A0391	2	4	3	2	3	2	6	9
18A91A0392	2	4	3	2	4	3	6	9
18A91A0393	2	2	1		1	1	6	8
18A91A0394		3	3	4	3	3	6	6
18A91A0395			3	2	3	3	6	9
18A91A0396		1		1	2	2	6	9
18A91A0398	4	4	4	4	3	4	6	9
18A91A0399	4	3	4			3	6	9
18A91A03A0	2	3	2	3			6	9
18A91A03A1	2	3	3	3	2	2	6	8
18A91A03A2	2	3	3	3	2	1	6	9
18A91A03A3	3	4	4	3	4	3	6	9
18A91A03A4	2	3	3		3	2	6	9
18A91A03A5	2				2		6	8
18A91A03A6	2	2	3	1	3	2	6	8
18A91A03A7		3	3		3	2	6	8
18A91A03A8					1		6	9
18A91A03A9	3	3	3	1	3	3	6	9
18A91A03B1	3	3	3	4	4	3	6	8
18A91A03B2	3	3	3	2	3	4	6	8
18A91A03B4	2	3	3		3	1	6	9
19A95A0304	3	3	4	4	4	4	6	9
19A95A0310	3	3	3	2	3		6	9
19A95A0311	4	4	4	3	4	4	6	9
19A95A0313	3	3	3	4	3	3	6	9
19A95A0314	2	3	2	3	3	3	6	9
19A95A0315	3	4	1	3	4	4	6	8
19A95A0316		4	2	4	4	4	6	8
19A95A0317	1		2	2	2	2	6	8
19A95A0318	3	3	3	3	4	3	6	8
19A95A0319	3	3	4	4	4	3	6	6
19A95A0320								


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TARGET PERCENTAGE in CO (Instructor fixed)	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	66.00%	60.00%
MARKS SATISFYING TARGET PERCENTAGE	3	3	3	3	3	3	4	6
NO. OF STUDENTS >= TARGET PERCENTAGE	26	51	38	24	38	30	65	64
COURSE OUTCOME	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
CO ATTAINMENT %	44%	88%	68%	52%	69%	53%	100%	98%
ATTAINMENT LEVELS RESULTS	CO1	CO1	CO2	CO2	CO2	CO3	ALL	ALL
CO ATTAINMENT LEVEL	1	3	2	1	2	1	3	3
ANALYSIS OF ATTAINMENTS	CO1	CO1	CO2	CO2	CO2	CO3	FINAL ATTAINMENT VALUE (average of all individual CO's and combined Assignment &Objective)	
CO1	1	3					2.67	
CO2			2	1	2		2.56	
CO3						1	2.33	
CO4							0.00	
CO5							0.00	
LEVELS ALLOCATED BASED ON TARGETS ATTAINED								
First level		1	<60% students attained more than target %					
Second level		2	60- 80% students attained more than target %					
Third level		3	>80% students attained more than target %					

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ADITYA ENGINEERING COLLEGE(A)								
SESSIONAL -2 DATA								
ACADEMIC YEAR	2020-21			SEMESTER			V	
BRANCH	MECHANICAL ENGINEERING			REGULATION			AR17	
COURSE NAME	METAL CUTTING AND MACHINE			COURSE CODE			171ME5T09	
DATE OF THE EXAMINATION	3/1/2021			SESSIONAL			II	
COURSE INSTRUCTOR	Dr. Sandip Kumar							
	Descriptive-II						Assignment-II	Objective-II
	Q1		Q2		Q3			
	A	B	A	B	A	B		
Max.Marks	4	4	4	4	4	4	6	10
COURSE OUTCOME	CO3	CO3	CO4	CO4	CO4	CO5	ALL	ALL
17A91A0393	1	1		2			4	10
18A91A0358	4	3	4	4	4	4	6	10
18A91A0359	4	2	2	4	4	3	4	10
18A91A0360	4	4	3	4	4	4	6	10
18A91A0361	4	3	3	4	2	4	6	10
18A91A0362	2	2	1	1	1	2	6	9
18A91A0363	1	1	1	1			4	9
18A91A0364	4	3	2	4	4	4	6	9
18A91A0365	4	2	2	4	3	4	6	10
18A91A0366	3	4	4	4	4	4	6	10
18A91A0367	4	3	3	4	4	4	6	10
18A91A0368	3	4		4	3	4	4	10
18A91A0369	3	4	1	4	0	4	4	10
18A91A0370	4	3	2	3	0	3	6	10
18A91A0371	4	4	3	4	4	3	6	10
18A91A0372	4	3	4	4	3	4	6	10
18A91A0373	1	1		1			6	10
18A91A0374	4	4	4	4	4	4	6	10
18A91A0375	1						4	10
18A91A0376	4	2	2	2			6	10
18A91A0377							4	A
18A91A0378							6	A
18A91A0379	4	2	1	4	1	0	6	10
18A91A0380	4	3	3	2	4	4	6	10
18A91A0381	4	4	3	4	4	4	6	10
18A91A0382	4	3	3	3	4	4	6	10


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18A91A0383	3	2	3	2	2	2	6	10
18A91A0384	2	1		2			4	10
18A91A0385			1				4	10
18A91A0386	3	4	4	3	4	4	6	10
18A91A0387	3		2	3	3	2	4	10
18A91A0388	2	2	2	2	3	2	4	10
18A91A0389	2	2	2	2	2	3	4	10
18A91A0390							4	
18A91A0391	1	2	2	3	3	1	6	10
18A91A0392	4	3	3	4	4	4	6	8
18A91A0393	2		3		2		4	9
18A91A0394	3	4	2	4	4	4	6	10
18A91A0395	1	2	2	4	4	4	4	9
18A91A0396		3	3	4	4	4	4	9
18A91A0398	4	4	3	3	4	3	6	10
18A91A0399	4	4	3	4	3	3	4	9
18A91A03A0			3	4	4	4	4	10
18A91A03A1	4	4	4	4	3	4	6	10
18A91A03A2	3	4	3	4	4	3	6	10
18A91A03A3	4	4	3	4	4	4	6	10
18A91A03A4	2	2	2	3	2	1	4	10
18A91A03A5	2	0	2	2	2	1	4	10
18A91A03A6	4	2	4	4	4	4	6	10
18A91A03A7							4	10
18A91A03A8	2	0					4	10
18A91A03A9	3	4	3	4	3	4	6	10
18A91A03B1	4	4	4	4	3	4	6	10
18A91A03B2	4	2	3	4	4	4	6	10
18A91A03B4	4	2	3	4	4	4	4	10
19A95A0304	4	4	3	4	4	4	6	10
19A95A0310	3	2	3	3	3	4	6	10
19A95A0311	4	4	3	4	4	4	6	10
19A95A0313	4	3	4	4	4	4	6	10
19A95A0314	3	2	2	3		3	6	10
19A95A0315	4	4	4	4	3	4	6	10
19A95A0316	4	3	2	4	4	3	6	10
19A95A0317	4	3	3	4	4	3	6	10
19A95A0318	4	3	4	4	3	4	6	10
19A95A0319	4	4	3	4	2	4	6	10
19A95A0320								
TARGET PERCENTAGE in CO (Instructor fixed)	75.00%	75.00%	75.00%	75.00%	75.00%	75.00%	66.00%	60.00%

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MARKS SATISFYING TARGET PERCENTAGE	3	3	3	3	3	3	4	6
NO. OF STUDENTS >= TARGET PERCENTAGE	44	34	35	46	41	44	65	62
COURSE OUTCOME	CO3	CO3	CO4	CO4	CO4	CO5	ALL	ALL
CO ATTAINMENT %	76%	61%	64%	81%	79%	85%	100%	97%
CO ATTAINMENT LEVEL	2	2	2	3	2	3	3	3
ANALYSIS OF ATTAINMENTS	CO3	CO3	CO4	CO4	CO4	CO5	FINAL ATTAINMENT VALUE (average of all individual CO's and combined Assignment &Objective)	
CO1							0.00	
CO2							0.00	
CO3	2	2					2.67	
CO4			2	3	2		2.78	
CO5						3	3.00	
LEVELS ALLOCATED BASED ON TARGETS ATTAINED								
First level		1	<60% students attained more than target %					
Second level		2	60- 80% students attained more than target %					
Third level		3	>80% students attained more than target %					


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ADITYA ENGINEERING COLLEGE(A)																				
SEMESTER END EXAMINATION																				
BRANCH	MECHANICAL ENGINEERING										REGULATION		AR17							
COURSE NAME	METAL CUTTING AND MACHINE TOOLS										COURSE CODE		171ME5T09							
COURSE INSTRUCTOR	Dr. Sandip Kumar																			
	Q1		Q2		Q3		Q4		Q5		Q6		Q7		Q8		Q9		Q10	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Max.Marks	4	8	4	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
COURSE OUTCOME==> Script Reference Number	CO1	CO1	CO1	CO2	CO2	CO2	CO2	CO2	CO3	CO3	CO3	CO3	CO4	CO4	CO4	CO4	CO5	CO5	CO5	CO5
17A91A0393			4.00	4.00	1.00	1.00			4.00	2.00					1.00	1.00				
18A91A0358			4.00	7.00			4.00	1.00	4.00	3.00					5.00	4.00			4.00	4.00
18A91A0359			2.00	6.00	1.00	1.00			4.00	1.00			4.00	1.00			5.00	2.00		
18A91A0360			4.00	7.00	1.00	5.00			5.00	5.00					3.00	4.00			5.00	4.00
18A91A0361			1.00	4.00	1.00	2.00			5.00	1.00					1.00	4.00			4.00	1.00
18A91A0362	1.00	4.00			1.00	2.00			1.00	2.00					3.00	1.00			4.00	3.00
18A91A0363	1.00	3.00				2.00					3.00	1.00			1.00	1.00			2.00	2.00
18A91A0364	3.00	5.00			1.00	5.00			2.00	1.00							4.00	1.00		
18A91A0365	3.00	6.00			1.00	1.00			2.00	4.00					4.00	5.00			4.00	4.00
18A91A0366			4.00	8.00	1.00	4.00			6.00	5.00							4.00	4.00		
18A91A0367			4.00	7.00	3.00	4.00			5.00	4.00					5.00	4.00			6.00	2.00
18A91A0368			4.00	1.00					4.00	3.00			1.00	2.00						2.00
18A91A0369			3.00	8.00	2.00	4.00			2.00	1.00			4.00	1.00					5.00	1.00
18A91A0370			4.00	5.00	1.00	2.00			2.00	2.00					3.00	3.00			3.00	2.00
18A91A0371			4.00	8.00	1.00	4.00			4.00	2.00							5.00	4.00		
18A91A0372			4.00	6.00	1.00	5.00			5.00	1.00			3.00	3.00					5.00	4.00
18A91A0373			1.00	5.00	1.00	4.00			4.00	3.00										2.00
18A91A0374			4.00	8.00	1.00	5.00			5.00	4.00			6.00	5.00					6.00	3.00
18A91A0375			4.00	7.00	1.00	4.00														1.00
18A91A0376			3.00	3.00	1.00	3.00														

18A91A0377			4.00	8.00	1.00	5.00			1.00	2.00					5.00	5.00			2.00	5.00
18A91A0378			3.00	6.00					5.00				3.00	4.00						4.00
18A91A0379			2.00	7.00	1.00	4.00			1.00	3.00					3.00	1.00			4.00	1.00
18A91A0380			3.00	7.00	1.00	4.00			2.00	4.00					4.00	2.00			5.00	4.00
18A91A0381			3.00	8.00					1.00	1.00					1.00	5.00				4.00
18A91A0382			4.00	8.00					6.00	5.00			5.00	5.00			6.00	4.00		
18A91A0383			4.00	6.00					4.00	5.00			4.00	4.00			3.00	3.00		
18A91A0384			1.00	1.00	1.00	1.00					1.00	1.00			1.00	1.00	1.00	1.00		
18A91A0385			1.00	4.00	1.00	1.00					5.00	1.00			1.00	1.00			3.00	1.00
18A91A0386			4.00	8.00	2.00	4.00			5.00	3.00			4.00	4.00			2.00	2.00		
18A91A0387			1.00	4.00	1.00	2.00			4.00	1.00									2.00	5.00
18A91A0388			1.00	2.00	1.00	1.00			2.00	1.00					2.00	2.00			4.00	2.00
18A91A0389			1.00		1.00	5.00			3.00	4.00					5.00	1.00			5.00	4.00
18A91A0390																				
18A91A0391			2.00	7.00	1.00	5.00					6.00	4.00	5.00	6.00					1.00	
18A91A0392			4.00	6.00			5.00	1.00			5.00	1.00	1.00	2.00					4.00	1.00
18A91A0393			2.00	2.00	1.00	1.00									2.00	1.00			3.00	2.00
18A91A0394			3.00	8.00	1.00	4.00			3.00	2.00					4.00	3.00	4.00	3.00		
18A91A0395			4.00	2.00					2.00	3.00			1.00						5.00	1.00
18A91A0396			2.00	3.00	1.00	3.00			4.00	4.00					1.00	1.00			2.00	2.00
18A91A0398			4.00	8.00	1.00	5.00					6.00	6.00	6.00	6.00					6.00	
18A91A0399			2.00	4.00									4.00	1.00					3.00	2.00
18A91A03A0			1.00	6.00	1.00	6.00			4.00	1.00					4.00	5.00	4.00	2.00		
18A91A03A1			4.00	7.00	6.00	4.00			4.00	3.00					4.00	5.00			5.00	2.00
18A91A03A2			4.00	7.00					5.00	3.00					5.00	5.00			5.00	
18A91A03A3			4.00	8.00	1.00	5.00			5.00	4.00					4.00	4.00			4.00	4.00
18A91A03A4			2.00	4.00	1.00	3.00			2.00	1.00			4.00	1.00					1.00	1.00
18A91A03A5			2.00	4.00	1.00	4.00			2.00				5.00	1.00					3.00	1.00
18A91A03A6					1.00	3.00			2.00	3.00			5.00	1.00					4.00	2.00
18A91A03A7					1.00	5.00			2.00	1.00										
18A91A03A8			2.00	4.00	1.00	3.00			2.00	1.00			4.00	1.00						1.00
18A91A03A9			4.00	6.00	1.00	5.00			4.00	2.00					4.00	3.00	3.00	1.00		

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18A91A03B1			4.00	8.00	1.00	4.00			6.00	5.00			6.00	4.00			3.00	3.00		
18A91A03B2			4.00	8.00			5.00	5.00	6.00	3.00					5.00	5.00			5.00	5.00
18A91A03B4			4.00	6.00			5.00		3.00	4.00			5.00	5.00					5.00	5.00
19A95A0304	4.00	8.00			6.00	6.00			6.00	6.00					6.00	6.00	6.00	4.00		
19A95A0310			2.00	4.00	4.00	5.00			4.00						4.00		4.00	3.00		
19A95A0311	4.00	6.00			5.00	5.00			6.00	6.00			6.00	6.00			6.00	5.00		
19A95A0313	3.00	2.00					5.00	6.00	5.00	4.00			6.00	6.00					6.00	5.00
19A95A0314			4.00	8.00			6.00	4.00	5.00	3.00					4.00	3.00	5.00	2.00		
19A95A0315			4.00	4.00	5.00	5.00			6.00	4.00					6.00	5.00	6.00	4.00		
19A95A0316			4.00	7.00	1.00	6.00			5.00						3.00	4.00	2.00			
19A95A0317			3.00	2.00	1.00	5.00			6.00	3.00			2.00	1.00			5.00	4.00		
19A95A0318			4.00	6.00			6.00	5.00	6.00	6.00			6.00	6.00			6.00	4.00		
19A95A0319			4.00	6.00	1.00	4.00			5.00	5.00					6.00	6.00	5.00	2.00		
TARGET PERCENTAGE in CO (Instructor fixed)	75.00%	62.00%	75.00%	62.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%	66.00%
MARKS SATISFYING TARGET PERCENTAGE	3	5	3	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
NO. OF STUDENTS ≥ TARGET PERCENTAGE	5	4	37	36	5	32	7	4	35	19	4	2	18	12	18	16	15	8	23	14
COURSE OUTCOME	CO1	CO1	CO1	CO2	CO2	CO2	CO2	CO2	CO3	CO3	CO3	CO3	CO4	CO4	CO4	CO4	CO5	CO5	CO5	CO5
CO ATTAINMENT %	71%	57%	67%	67%	10%	65%	100%	67%	65%	38%	67%	33%	75%	52%	56%	52%	71%	40%	68%	38%
Attainment levels results	CO1	CO1	CO1	CO2	CO2	CO2	CO2	CO2	CO3	CO3	CO3	CO3	CO4	CO4	CO4	CO4	CO5	CO5	CO5	CO5
CO ATTAINMENT LEVEL	2	1	2	2	1	2	3	2	2	1	2	1	2	1	1	1	2	1	2	1


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ANALYSIS OF ATTAINMENTS	3.00	CO1	CO1	CO2	CO2	CO2	CO2	CO2	CO3	CO3	CO3	CO3	CO4	CO4	CO4	CO4	CO5	CO5	CO5	CO5
CO1	2	1	2																	
CO2				2	1	2	3	2												
CO3									2	1	2	1								
CO4													2	1	1	1				
CO5																	2	1	2	1
				First level	1	<60% students attained more than target %														
				Second level	2	60- 80% students attained more than target %														
				Third level	3	>80% students attained more than target %														


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ADITYA ENGINEERING COLLEGE(A)								
INDIRECT CO ATTAINMENT(SURVEY)								
ACADEMIC YEAR	2020-21	SEMESTER		V				
BRANCH	MECHANICAL ENGINEERING	REGULATION		AR17				
COURSE	METAL CUTTING AND MACHINE TOOLS	COURSE CODE		171ME5T09				
COURSE INSTRUCTOR	Dr. Sandip Kumar							
	COURSE OUTCOMES	Strongly Agree (5)	Agree (4)	Neither Agree nor Disagree (Neutral) (3)	Disagree (2)	Strongly Disagree (1)	Weighted Average (5)	CO ATTAINED THROUGH SURVEY
CO1	I have the ability to Apply cutting mechanics to metal machining based on cutting force and power consumption	23	16	12	1	2	4.06	2.43
CO2	I have the ability to Explain working of Lathe, Shaper, Slotter and Planar machine.	29	12	12	1	1	4.22	2.53
CO3	I have the ability to Select appropriate machining processes and tool geometries in drilling and milling machines	21	12	17	1	0	4.04	2.42
CO4	I have the ability to Classify jigs and fixtures, Principles of location and finishing processes.	24	26	19	1	1	4.00	2.40
CO5	I have the ability to Discuss principles of industrial safety and maintenance of machine tools	27	12	12	1	1	4.19	2.51

Sandip Kumar


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ADITYA ENGINEERING COLLEGE(A)							
TOTAL COURSE OUTCOME(CO) ATTAINMENT							
ACADEMIC YEAR	2020-21		SEMESTER		V		
BRANCH	MECHANICAL ENGINEERING		REGULATION		AR17		
COURSE	METAL CUTTING AND MACHINE TOOLS		COURSE CODE		171ME5T09		
COURSE INSTRUCTOR	Dr. Sandip Kumar						
ANALYSIS OF ATTAINMENTS	S1	S2	CO ATTAINMENT Sessionals	CO ATTAINMENT External Exams	DIRECT CO ATTAINMENT	INDIRECT CO ATTAINMENT	TOTAL CO ATTAINMENT
CO1	2.67	0.00	2.67	1.60	2.03	2.43	2.11
CO2	2.56	0.00	2.56	1.53	1.94	2.53	2.06
CO3	2.33	2.67	2.50	1.50	1.90	2.42	2.00
CO4	0.00	2.78	2.78	1.67	2.11	2.40	2.17
CO5	0.00	3.00	3.00	1.80	2.28	2.51	2.33
COURSE CO ATTAINMENT							2.13


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ADITYA ENGINEERING COLLEGE(A)					
BRIDGING THE ATTAINMENT GAP					
ACADEMIC YEAR	2020-21		SEMESTER	V	
BRANCH	MECHANICAL ENGINEERING		REGULATION	AR17	
COURSE	METAL CUTTING AND MACHINE TOOLS		COURSE CODE	171ME5T09	
COURSE INSTRUCTOR	Dr. Sandip Kumar				
ANALYSIS OF ATTAINMENTS	CO TARGET	CO ATTAINMENT	CO ATTAINMENT GAP (Attainment-Target)	Observation	Improvements
CO1	1.80	2.11	0.31	More discussions about metal cutting mechanism were conducted	More practical oriented classes will be arranged about metal cutting
CO2	1.80	2.06	0.26	More discussions & video lectures about conventional machines were conducted	More practical works will be required in lathe, shaper, slotter and planner
CO3	1.80	2.00	0.20	More discussions were completed about tool geometries in drilling and milling machines	More practical and tutorial classes will be arranged
CO4	1.80	2.17	0.37	More discussions and demonstrations were completed about jigs and fixtures, principles of location and finishing processes	More class tests will be arranged
CO5	1.80	2.33	0.53	More discussions completed about principles of industrial safety and maintenance of machine tools	More demonstrations and practical classes will be arranged
Signature of the Course Instructor				Sandip Kumar	
Name & Signature of Course Coordinator				Sandip Kumar	
Name & Signature of HOD				Dr. B. H. V. Poores, Poores	

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ADITYA ENGINEERING COLLEGE(A)															
FINAL PROGRAM OUTCOME(PO) ATTAINMENT															
ACADEMIC YEAR	2020-21							SEMESTER			V				
BRANCH	MECHANICAL ENGINEERING							REGULATION			AR17				
COURSE	METAL CUTTING AND MACHINE TOOLS							COURSE CODE			171ME5T09				
COURSE INSTRUCTOR	Dr. Sandip Kumar														
COURSE OUTCOME	TOTAL CO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2.11	3	1	0	0	0	1	0	0	0	0	0	1	1	0
CO2	2.06	3	1	0	0	0	1	0	0	0	0	0	1	1	0
CO3	2.00	3	2	0	0	0	1	0	0	0	0	0	1	1	0
CO4	2.17	3	1	0	0	0	1	0	0	0	0	0	1	1	0
CO5	2.33	3	1	0	0	0	1	0	0	0	0	0	1	1	0
COURSE ATTAINMENT	2.13														
PO ATTAINMENT	2.13	2.11				#####	2.13						2.13	2.13	
MAPPING STRENGTH	3.00	1.20					1.00						1.00	1.00	
Signature of the Course Instructor							Sandip Kumar								
Name & Signature of Course Coordinator							Sandip Kumar								
Name & Signature of HOD							Dr. B. V. Prasad, Prasad								


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ADITYA ENGINEERING COLLEGE (A)

Aditya Nagar, ADB Road, Surampalem

Department of Mechanical Engineering

Academic year: 2020-21

Semester: V

Course name: Metal Cutting and Machine Tools

Summary of CO attainment for A, B and C sections

Section	CO1	CO2	CO3	CO4	CO5
A	2.01	1.93	2.16	2.17	2.33
B	2.11	2.06	2.00	2.17	2.33
C	1.81	1.93	2.31	2.09	1.96
Average	1.98	1.97	2.16	2.14	2.21

Summary of PO attainment for A, B and C sections

Section	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
A	2.12	2.12				2.12						2.12	2.12	
B	2.13	2.11				2.13						2.13	2.13	
C	2.28	2.32				2.32						2.34	2.33	
Average	2.21	2.23				2.21						2.21	2.21	

Coordinator

Sadipkumar

HOD

P. S. S. S.

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ADITYA ENGINEERING COLLEGE (A)

Aditya Nagar, ADB Road, Surampalem

Department of Mechanical Engineering

Batch: 2018-2022

Overall Course Attainment (Direct Method)

Code	Course	Internal Examinations						Semester End Examinations						Direct Attainment
		CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	
C101	English - I	2.28	2.17	2.31	2.39	2.44		2.42	2.17	2.00	2.02	1.76		2.17
C102	Mathematics - I	2.00	1.89	2.89	2.33	2.44		1.64	1.17	2.50	1.83	1.22		1.93
C103	Environmental Studies	2.31	2.30	2.33	2.33	0.00		1.68	2.00	1.78	1.40	1.08		1.69
C104	Engineering Chemistry	2.00	1.96	2.03	2.39	2.00		1.08	1.00	1.00	1.00	1.00		1.44
C105	Engineering Mechanics	2.17	1.78	1.89	2.17	2.11	2.00	1.00	1.00	1.00	1.00	0.33	1.00	1.34
C106	Computer Programming	2.33	2.00	2.22	2.33	2.33		1.25	1.08	1.00	1.08	1.00		1.55
C107	English Communication Skills Lab-I							2.58	2.53	2.53	2.51	2.49		2.53
C108	Engineering Chemistry Lab							1.95	1.95	1.95	1.95	1.95		1.95
C109	Computer Programming Lab							1.72	1.72	1.72	1.75	1.72		1.72
C110	English - II	2.50	2.44	2.67	2.67	2.56		2.67	2.08	2.25	2.25	1.69		2.34
C111	Mathematics - II	1.67	1.56	1.61	1.11	1.33		1.42	1.00	1.17	1.00	1.36		1.30
C112	Mathematics - III	2.17	2.15	1.86	1.72	1.56		1.25	1.00	1.00	1.22	1.00		1.41
C113	Engineering Physics	2.33	1.83	2.07	2.37	2.39		1.67	1.00	1.47	1.88	1.20		1.78
C114	Engineering Drawing	3.00	0.00	0.00	3.00	0.00	0.00	1.28	1.33	1.00	1.22	1.00	0.67	1.05
C115	Basic Electrical and Electronics Engineering	2.22	2.19	2.33	2.39	2.28		1.08	1.08	1.25	1.17	1.25		1.61
C116	English Communication Skills Lab-II							2.10	2.05	2.08	2.04	2.05		2.06
C117	Engineering Physics Lab							1.75	1.75	1.75	1.75	1.75		1.75
C118	Engineering Workshop And IT							1.17	1.17	1.17	1.17	1.17		1.17


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	Workshop													
C201	Metallurgy and Material Science	1.83	1.70	1.78	2.22	2.11	2.05	1.25	1.55	1.28	1.67	1.58	1.17	1.63
C202	Mechanics of Solids	2.22	2.19	2.01	1.67	1.67		1.75	1.00	1.00	1.00	1.00		1.47
C203	Thermodynamics	1.44	1.44	1.72	1.78	1.78		1.00	1.00	1.00	1.00	1.00		1.25
C204	Managerial Economics and Financial Analysis	1.89	2.00	2.00	2.33	2.22	2.17	1.00	1.36	1.58	1.58	1.33	1.42	1.67
C205	Fluid Mechanics and Hydraulic Machinery	1.50	1.33	1.33	1.83	1.83	1.83	2.33	3.00	1.20	1.00	1.50	1.75	1.72
C206	Computer Aided Engineering Drawing Practice	1.92	2.33	2.67	2.50	3.00		1.33	2.00	1.67	2.00	1.58		2.02
C207	Basic Electrical and Electronics Lab	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.60
C208	Mechanics of Solids and Metallurgy Lab	2.3	2.3	2.3	2.3	2.3		1.6	1.6	1.6	1.6	1.6		1.88
C209	Professional Ethics and Human Values	2.93	2.93	2.93	2.92	2.93		2.93	2.93	2.92	2.91	2.93		2.93
C210	Employability Skills – I	2.93	2.93	2.92	2.91	2.93		2.93	2.93	2.92	2.91	2.93		2.92
C211	Kinematics of Machinery	2.17	1.72	1.92	2.11	2.33		2.44	1.81	1.75	1.44	1.00		1.83
C212	Thermal Engineering - I	2.22	2.19	2.01	1.67	1.67		1.75	1.00	1.00	1.00	1.00		1.47
C213	Production Technology	2.00	1.94	2.22	2.15	2.00		3.00	2.28	2.33	2.11	1.17		2.13
C214	Design of Machine Members - I	1.56	1.50	1.78	2.06	1.22		1.67	1.56	1.75	1.11	1.00		1.50
C215	Industrial Engineering and Management	2.33	2.28	2.22	2.39	2.50		1.00	1.00	1.67	1.33	1.33		1.70
C216	Machine Drawing	1.25	1.56	2.00	2.00	2.33		1.67	1.00	3.00	3.00	3.00		2.13
C217	Intellectual Property Rights and Patents	3.00	3.00	3.00	2.67	2.22		2.19	1.80	1.69	1.58	1.83		2.20
C218	Production Technology Lab	2	2	2	2	2		1	1	1	1	1		1.40
C219	Fluid Mechanics And Hydraulic Machinery Lab	2.6	2.6	2.6	2.6	2.6		3	3	3	3	3		2.84
C220	Employability Skills – II	2.93	2.93	2.92	2.91	2.93		2.93	2.93	2.92	2.91	2.93		2.92
C301	Dynamics of Machinery	1.83	1.93	2.50	2.39	2.67		1.67	1.89	2.78	2.13	2.00		2.16
C302	Metal Cutting and Machine Tools	2.61	2.52	2.67	2.78	2.89		1.37	1.38	1.72	1.61	1.62		2.00
C303	Thermal Engineering – II	2.00	2.00	2.22	2.33	2.00		1.08	1.36	1.22	1.17	1.08		1.55
C304	Design of Machine Members – II	2.33	1.89	2.00	2.61	2.44		1.33	1.33	1.00	1.00	1.33		1.62
C305	Operations Research	2.00	1.67	1.72	1.72	1.83		2.00	1.17	2.00	1.40	1.00		1.62
C306	Automobile Engineering (Professional Elective – I)	1.78	1.89	1.89	2.39	2.67		2.08	1.33	1.17	1.25	1.08		1.68


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C307	Employability Skills – III	3.00	3.00	3.00	3.00	3.00		1.00	1.00	1.00	1.00	1.00		1.80
C308	Theory of Machines Lab	3.00	3.00	3.00	3.00	3.00		2.00	2.00	2.00	2.00	2.00		2.40
C309	Thermal Engineering Lab	2.30	2.30	2.30	2.30	2.30		1.00	1.00	1.00	1.00	1.00		1.52
C310	Heat Transfer	2.17	2.11	1.89	1.85	1.83		1.25	1.33	1.83	1.22	1.25		1.61
C311	Refrigeration and Air –Conditioning	2.89	2.89	2.61	2.56	2.33		1.08	1.00	1.92	1.08	1.11		1.81
C312	Metrology and Instrumentation	2.39	2.30	2.33	2.56	2.57		1.39	1.53	1.83	1.42	1.50		1.89
C313	Design for Manufacturing (Professional Elective – II)	3.00	3.00	2.47	2.22	2.17		2.25	1.63	2.13	1.63	1.88		2.17
C314	Non Destructive Evaluation (Professional Elective – II)	3.00	3.00	2.67	1.83	2.33		2.75	3.00	3.00	3.00	2.50		2.74
C315	Unconventional Machining Processes (Professional Elective – III)	3.00	3.00	3.00	2.67	2.22		2.194	1.722	1.694	1.583	1.833		2.19
C316	Employability Skills – IV	1.00	1.00	1.00	1.00	1.00		1	1	1	1	1		1.00
C317	Machine Tools Lab	2.6	2.6	2.6	2.6	2.6		2.3	2.3	2.3	2.3	2.3		2.42
C318	Heat Transfer Lab	2	2	2	2	2		3	3	3	3	3		2.60
C319	Metrology / Instrumentation Lab	3	3	3	3	3		1.6	1.6	1.6	1.6	1.6		2.16
C401	CAD / CAM	1.72	1.72	1.22	2.56	2.61		1.11	1.53	1.72	2.08	2.00		1.80
C402	Mechatronics	2.56	2.78	2.19	1.56	1.78		2.08	1.92	1.67	2.67	2.00		2.11
C403	Finite Element Methods	2.89	2.56	2.56	2.39	1.89		2.08	1.33	1.67	1.67	1.25		1.94
C404	Power Plant Engineering	2.83	2.33	2.72	2.56	2.56		1.78	1.22	1.50	1.42	2.33		2.03
C405	Green Engineering Systems (Professional Elective – IV)	2.59	2.41	2.22	2.17	2.22		1.42	2.25	2.67	2.83	2.58		2.34
C406	Flexible Manufacturing Systems (Professional Elective – V)	3.00	2.85	2.92	2.72	2.46		2.33	1.00	1.67	1.00	2.42		2.13
C407	CAD / CFD Lab	1.60	1.60	1.60	1.60	1.60	1.60	3.00	3.00	3.00	3.00	3.00	3.00	2.44
C408	CAM / Mechatronics Lab	3.00	3.00	3.00	3.00	3.00		2.60	2.60	2.60	2.60	2.60		2.76
C409	Industry Oriented (Internship) Minor Project	3.00	3.00	3.00	3.00	3.00		3.00	3.00	3.00	3.00	3.00		3.00

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C410	Production Planning and Control (Professional Elective – VI)	2.78	2.61	2.67	2.67	2.50		1.39	1.69	1.31	1.08	1.58		1.90
C411	Entrepreneur Resource Planning (Open Elective)	2.33	2.33	2.50	2.56	2.50		1.08	1.50	1.17	1.08	1.08		1.77
		CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9	CO10			
C412	Major project	2.06	2.17	2.11	2.18	2.13	2.3	2.31	2.33	2.34	2.22			

V. Pragna
Coordinator

P. S. S.
HOD
Head of the Department
Mechanical Engineering
Aditya Engineering College
Surampalem

g.v.
PRINCIPAL
ADITYA ENGINEERING COLLEGE
SURAMPALAM - 533 437



ADITYA ENGINEERING COLLEGE (A)

Aditya Nagar, ADB Road, Surampalem

Department of Mechanical Engineering

Batch: 2018-2022

PO Attainment Direct:

CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	English - I										2.23		
C102	Mathematics - I	2.03	2.03										
C103	Environmental Studies			1.47			1.80	1.85					
C104	Engineering Chemistry	1.65						1.64					
C105	Engineering Mechanics	1.54	1.54	1.54									
C106	Computer Programming	1.77	1.77	1.75	1.75								
C107	English Communication Skills Lab-I					2.39					2.39		2.39
C108	Engineering Chemistry Lab	2.05						2.04		2.05	2.05		2.05
C109	Computer Programming Lab		1.87	1.87	1.87	1.88				1.88	1.88		
C110	English - II					2.58		2.35			2.33		
C111	Mathematics - II	1.53	1.53										
C112	Mathematics - III	1.63	1.63										
C113	Engineering Physics	1.88	1.84										
C114	Engineering Drawing	1.31	1.31	1.31		0.81							
C115	Basic Electrical and Electronics Engineering	1.78	1.77	1.78	1.78								

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C116	English Communication Skills Lab-II										2.14		2.14
C117	Engineering Physics Lab	1.42	1.42							1.42	1.42		1.42
C118	Engineering Workshop And IT Workshop	1.89	1.89							1.89	1.89		1.88
C201	Metallurgy and Material Science	1.75	1.83				1.79	1.79					
C202	Mechanics of Solids	1.67	1.67	1.70				1.67					1.67
C203	Thermodynamics	1.50	1.50										1.50
C204	Managerial Economics and Financial Analysis	1.54	2.24								1.86	1.96	1.95
C205	Fluid Mechanics and Hydraulic Machinery	1.79	1.77										1.78
C206	Computer Aided Engineering Drawing Practice	1.85	1.85	1.83		2.25					2.00		
C207	Basic Electrical and Electronics Lab	1.75	1.75	1.75						1.75	1.75		
C208	Mechanics of Solids and Metallurgy Lab	2.17	2.17					2.17		2.17	2.17		
C209	Professional Ethics and Human Values								2.13	2.13	2.13		2.13
C210	Employability Skills - I	2.92	2.92								2.92	2.93	2.92
C211	Kinematics of Machinery	1.99	1.95	1.88	2.00								1.97
C212	Thermal Engineering - I	2.11	2.12	2.16	2.24		1.82						
C213	Production Technology	2.14				2.13	2.14	2.14					2.12
C214	Design of	1.72	1.71	1.76	1.74	1.60	1.37						

	Machine Members - I												
C215	Industrial Engineering and Management	1.24	1.61	1.36	1.42					1.66	1.42		1.74
C216	Machine Drawing	2.20	2.21	2.21		2.21					2.21		2.66
C217	Intellectual Property Rights and Patents	1.00					1.00		3.00				2.00
C218	Production Technology Lab	1.72	1.72							1.72	1.73	1.71	
C219	Fluid Mechanics And Hydraulic Machinery Lab	1.64	1.96							1.72	1.97		
C220	Employability Skills - II	2.12	2.13								2.12		2.12
C301	Dynamics of Machinery	2.23	2.19	2.21	2.21	2.28							2.21
C302	Metal Cutting and Machine Tools	2.21	2.23				2.21						2.21
C303	Thermal Engineering – II	1.8	1.8										
C304	Design of Machine Members – II	1.79	1.79	1.80	1.65		1.78						
C305	Operations Research	1.86	1.87				1.87						1.86
C306	Automobile Engineering (Professional Elective – I)	2.25	2.15	2.10	2.38		2.02						2.02
C307	Employability Skills – III	1.94	1.95								1.94		1.94
C308	Theory of Machines Lab	2.21	2.21	2.20	2.20					3.00	2.25		
C309	Thermal Engineering Lab	1.78	1.78	1.78	1.77		1.77	1.77		1.78	1.77		1.77
C310	Heat Transfer	1.79	1.80							...			
C311	Refrigeration and Air – Conditioning	1.96	1.91				1.94	1.94					1.86

C312	Metrology and Instrumentation	2.13					2.13			..			2.13
C313	Design for Manufacturing (Professional Elective – II)	2.24	2.24	2.24	2.27	2.24	2.24						
C314	Non Destructive Evaluation	2.92	2.62	2.61	2.6	2.77	2.52			2.77	2.58	2.77	2.65
C315	Unconventional Machining Processes (Professional Elective – III)	2.80				2.20				.			
C316	Employability Skills – IV	1.30	1.31								1.30		1.30
C317	Machine Tools Lab	2.33	2.33							.	2.33		2.33
C318	Heat Transfer Lab	2.61	2.61							2.61	2.61		
C319	Metrology / Instrumentation Lab	2.22	2.22		2.22					2.22	2.22		2.22
C401	CAD / CAM	1.97	1.93	2.21			2.05		2.05				1.95
C402	Mechatronics	2.04	1.97	1.97		2.19	1.88				2.04		2.06
C403	Finite Element Methods	2.02	2.01	2.04		2.05				2.42			
C404	Power Plant Engineering	2.11	2.26					2.15				2.43	2.02
C405	Green Engineering Systems (Professional Elective – IV)	2.22	2.16		2.16		2.22	2.22					
C406	Flexible Manufacturing Systems (Professional Elective – V)	2.19	2.26			2.18	2.43	2.23					2.25
C407	CAD / CFD Lab	2.78	2.78	2.78		2.78				2.78	2.78		2.78
C408	CAM / Mechatronics Lab	2.81	2.80	2.81	2.81	2.82				2.81	2.81		2.81

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C409	Industry Oriented (Internship) Minor Project	2.94	2.94	2.94	2.94	2.93	2.94	2.94	2.93	2.93	2.94	2.94	2.94
C410	Production Planning and Control (Professional Elective – VI)	1.93	1.98	1.98	2.03	1.83	1.85						1.96
C411	Entrepreneur Resource Planning (Open Elective)	1.40	1.4	1.4			1.42	1.33			1.3	1.42	
C412	Major project	2.19	2.20	2.18	2.21	2.20	2.03	1.77	2.15	2.22	2.22	1.69	2.24
Direct Attainment		1.97	1.99	1.99	2.11	2.22	1.97	2.00	2.45	2.20	2.11	2.23	2.10


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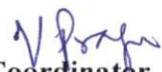

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PSO Direct

CO	PSO1	PSO2
C101		
C102		
C103		
C104		
C105		
C106	1.60	
C107		
C108		
C109		
C110		
C111		
C112		
C113		
C114	1.20	
C115		
C116		
C117		
C118	1.90	1.90
C201	1.53	
C202	1.67	
C203		1.50
C204		
C205		1.78
C206	2.00	1.96
C207		1.75
C208	2.17	
C209		
C210		
C211	1.97	1.96
C212	2.18	2.16
C213	2.20	2.19
C214	1.71	1.66
C215	1.43	
C216	2.21	2.28
C217		
C218	1.73	1.72
C219		2.00
C220		
C301	2.21	2.22
C302	2.21	2.21

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C303		1.8
C304	1.79	1.79
C305	1.86	
C306	2.25	2.19
C307		
C308	2.21	2.20
C309	1.78	1.77
C310		1.79
C311		1.91
C312	2.13	2.13
C313	2.24	
C314	2.72	
C315	2.40	
C316		
C317	2.33	
C318		2.61
C319	2.22	
C401	1.97	
C402	2.06	2.11
C403	2.03	
C404		2.11
C405		2.22
C406	2.19	
C407	2.78	2.78
C408	2.81	
C409		2.68
C410	1.93	1.94
C411		1.42
C412	2.19	1.37
Overall Attainment	2.09	2.00


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ADITYA ENGINEERING COLLEGE (A)

Aditya Nagar, ADB Road, Surampalem

Department of Mechanical Engineering

Batch: 2018-2022

PO Attainment Indirect:

Survey/ Committee	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Alumni survey	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Employer survey	3	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Parents survey	2.6	2.6	2.6	2.6	2.6	2.6	2.8	2.8	2.6	2.8	2.6	2.6
Program exit survey	2.61	2.48	2.42	2.48	2.46	2.42	2.44	2.46	2.46	2.52	2.44	2.48
Alumni Coordination Committee	3	-	-	-	-	2.5	1	-	3	-	3	-
Career Guidance, Training and Placement Committee	2.4	2.4	2.4	2.5	2.5	2.6	2.66	2.5	2.5	2.6	2.5	2.42
Committee for Co-Curricular Activities	-	-	-	-	-	-	-	-	2	2	-	1.66
Committee for Extension Activities- NSS, LEO, YRC, ECO	-	-	-	-	-	2	-	-	-	3	-	-
Committee for Industry Institute Coordination and Entrepreneurship Development	3	2	3	2	-	-	-	-	2.5	-	3	3
Professional Societies Coordination Committee	-	-	-	-	-	3	-	1	2	2	1.5	1.25
Committee for Extra Curricular Activities	-	-	-	-	-	3	-	-	2.3	2	-	2
Sports and Games Committee	-	-	-	-	-	2	-	-	2	2	2	1


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Photography and Video Club	-	-	-	-	-	3	1	-	3	-	-	-
INDIRECT PO ATTAINMENT (Survey Reports & Other Activities)	2.67	2.43	2.59	2.45	2.53	2.57	2.14	2.31	2.46	2.40	2.46	2.15

PSO Indirect:

	PSO1	PSO2
Alumni Survey	2.4	2.4
Employer Survey	2.7	2.7
Parents' Survey	2.6	2.4
Program Exit Survey	2.52	2.5
Overall Attainment	2.55	2.50


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ADITYA ENGINEERING COLLEGE (A)

Aditya Nagar, ADB Road, Surampalem

Department of Mechanical Engineering

Batch: 2018-2022

Overall PO Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Indirect attainment	2.67	2.43	2.59	2.45	2.53	2.57	2.14	2.31	2.46	2.40	2.46	2.15
Direct attainment	1.97	1.99	1.99	2.11	2.22	1.97	2.00	2.45	2.20	2.11	2.23	2.10
Overall PO attainment	2.11	2.08	2.11	2.18	2.28	2.09	2.03	2.42	2.25	2.17	2.28	2.11
Target	2.45	1.94	1.81	1.57	1.88	1.59	1.69	2.80	1.92	2.06	1.91	1.43
Attainment Status	N	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y

Overall PSO Attainment:

	PSO1	PSO2
Direct attainment	2.08	2.00
Indirect attainment	2.56	2.50
Overall PO attainment	2.18	2.10
Target	1.72	1.64
Attainment Status	Y	Y


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