



Kalyani Charitable Trust's  
**Late G. N. Sapkal College of Engineering**  
 Kalyani Hills, Anjaneri, Trimbakeshwar Road,  
 Nashik – 422 213



**DEPARTMENT OF CIVIL ENGINEERING**

**CO-PO MAPPING AND ATTAINMENT 2020-21 SEM-III**

<b>Program:</b> - Civil Engineering		<b>Class:</b> - SE (Sem-2)										<b>Div.:</b> - A&B	
<b>Course Name:</b> - Geotechnical Engineering -C201		<b>Course Code:</b> - 201008										<b>Course</b> -2019 Course	
<b>Subject Teacher:</b> - Prof. K. K. Tolani & Prof. S. M. Mahajan												<b>A.Y.:</b> - 2020-21 SEM-4	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	3	3	3	2	1	-	1	-	-	-	1	
CO2	3	3	2	2	3	1	-	2	-	-	-	1	
CO3	3	3	3	2	3	1	-	1	-	-	-	2	
CO4	3	3	3	3	3	1	-	1	-	-	-	1	
CO5	2	2	2	2	3	2	-	2	-	-	-	2	
CO6	2	2	2	2	3	1	-	2	-	-	-	1	
<b>CO</b>	<b>2.67</b>	<b>2.67</b>	<b>2.5</b>	<b>2.33</b>	<b>2.83</b>	<b>1.17</b>	-	<b>1.5</b>	-	-	-	<b>1.33</b>	

<b>Program:</b> - Civil Engineering		<b>Class:</b> - SE (Sem-2)										<b>Div.:</b> - A&B	
<b>Course Name:</b> - Survey-C202		<b>Course Code:</b> - 201009										<b>Course</b> -2019 Course	
<b>Subject Teacher:</b> - Prof. M.Z. Khairnar & Prof. D. B. Pagar												<b>A.Y.:</b> - 2020-21 SEM-4	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	2	3	2	-	2	-	-	-	-	-	1	
CO2	3	3	3	1	1	2	-	-	-	-	-	1	
CO3	3	3	3	1	-	-	-	-	-	-	-	1	
CO4	3	3	3	-	-	-	-	-	-	-	-	1	
CO5	3	3	3	-	1	1	2	-	-	-	3	1	





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Program: - Civil Engineering		Class: - SE (Sem-2)										Div.: - A&B	
Course Name: - Project Management - C205		Course Code: - 201012										Course -2019 Course	
Subject Teacher: - Prof. S. R. Padol & Prof. Anuja Dhattrak												A.Y.: - 2020-21 SEM-4	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	2	3	2	1	-	-	-	1	2	1	3	2	
CO2	3	2	3	2	-	-	-	1	1	1	2	1	
CO3	2	2	2	2	-	-	-	1	1	2	3	2	
CO4	3	2	2	2	-	-	-	2	2	2	3	2	
CO5	3	2	2	2	-	-	-	2	1	1	2	2	
CO6	2	3	1	2	-	-	-	2	2	1	2	2	
CO	2.50	2.33	2.00	1.83	-	-	-	1.50	1.50	1.33	2.50	1.83	

Program: - Civil Engineering		Class: - SE (Sem-2)										Div.: - A&B	
Course Name: - Project Based Learning - C206		Course Code: - 201017										Course -2019 Course	
Subject Teacher: - Prof. S. R. Padol & Prof. Anuja Dhattrak												A.Y.: - 2020-21 SEM-4	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	2	3	-	2	-	-	-	-	-	-	-	-	
CO2	-	2	1	-	-	3	1	3	-	-	-	-	
CO3	2	1	3	2	1	-	-	-	3	-	-	-	
CO4	-	3	2	3	2	-	-	-	-	-	-	-	
CO5	-	2	1	1	2	3	-	-	-	3	1	-	
CO6	-	-	-	-	-	-	-	-	3	-	-	-	



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<b>Program: - Civil Engineering</b>		<b>Class: - TE (Sem-2)</b>										<b>Div.: - A&amp;B</b>	
<b>Course Name: - Advanced Surveying - C301</b>		<b>Course Code: - 301007</b>										<b>Course -2015 Course</b>	
<b>Subject Teacher: - Prof. S. U. Pagar and Prof. S. J. Pagar</b>												<b>A.Y.: - 2020-21 SEM-6</b>	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	-	1	1	-	-	-	1	-	-	-	-	-	
CO2	1	-	-	1	1	-	1	-	-	-	1	-	
CO3	1	-	1	1	1	-	1	-	-	-	-	-	
CO4	1	1	-	1	1	-	1	-	-	-	1	-	
CO5	-	-	-	-	-	-	1	-	-	-	-	-	
CO6	-	1	-	1	-	-	1	-	-	-	1	-	
CO	1	1	1	1	1	-	1	-	-	-	1	-	

<b>Program: - Civil Engineering</b>		<b>Class: - TE (Sem-2)</b>										<b>Div.: - A&amp;B</b>	
<b>Course Name: - Project Management and Engineering Economics -C302</b>		<b>Course Code: - 301008</b>										<b>Course -2015 Course</b>	
<b>Subject Teacher: - Prof. A. J. Mali and Prof. P. D. Daware</b>												<b>A.Y.: - 2020-21 SEM-6</b>	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	-	-	1	-	-	-	1	-	-	-	-	-	
CO2	2	-	-	1	1	-	1	-	-	-	2	-	
CO3	1	-	1	1	1	1	1	-	-	-	-	-	
CO4	1	-	-	2	1	-	1	-	-	-	2	-	
CO5	-	-	-	-	-	-	1	-	-	-	-	-	
CO6	-	2	-	1	-	-	1	-	-	-	1	-	
CO	1.33	2	1	1.25	1	1	1	-	-	-	1.66	-	



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Program: - Civil Engineering		Class: - TE (Sem-2)										Div.: - A&B	
Course Name: - Foundation Engineering -C303		Course Code: - 301009										Course -2015 Course	
Subject Teacher: - Prof. I.J.Bathe and Prof. L.K. Pandit												A.Y.: - 2020-21 SEM-6	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	2	2	1	1	2	2	1	-	-	1	-	-	
CO2	2	1	1	1	2	2	-	-	-	1	-	-	
CO3	2	2	-	2	-	1	-	-	-	2	-	-	
CO4	2	-	-	1	1	-	-	-	-	1	-	-	
CO5	2	2	1	1	-	-	1	-	-	1	-	-	
CO6	2	-	-	-	-	2	1	-	-	1	-	-	
CO	2	1.75	1	1.2	1.66	1.75	1	-	-	1.16	-	-	

Program: - Civil Engineering		Class: - TE (Sem-2)										Div.: - A&B	
Course Name: - Structural Design II - C304		Course Code: - 301010										Course -2015 Course	
Subject Teacher: - Prof. S. H. Patel and Prof. T. R. Shinde												A.Y.: - 2020-21 SEM-6	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	2	2	-	-	-	-	1	-	-	-	-	
CO2	3	2	3	2	1	2	-	2	2	1	-	-	
CO3	3	2	3	1	-	2	-	2	2	1	-	-	
CO4	3	2	3	1	-	2	-	2	2	1	-	-	
CO5	3	2	3	2	-	2	-	2	2	1	-	-	
CO6	3	2	3	1	1	2	-	2	2	1	-	-	



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Program: - Civil Engineering		Class: - TE (Sem-2)										Div.: - A&B		
Course Name: - Environmental Engineering- I -C305		Course Code: - 301011										Course -2015 Course		
Subject Teacher: - Prof. A. U. Mankar and Prof. L.K. Pandit												A.Y.: - 2020-21 SEM-6		
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
CO1	2	-	-	-	-	-	-	1	-	1	1	-		
CO2	2	2	2	1	-	2	2	-	1	-	-	1		
CO3	2	2	2	1	-	2	-	-	1	-	-	1		
CO4	2	2	2	1	2	-	2	-	1	-	-	1		
CO5	2	2	2	1	2	2	-	-	-	-	-	1		
CO6	-	-	-	-	2	2	2	1	-	1	1	-		
CO	2	2	2	1	2	2	2	1	1	1	1	1		

Program: - Civil Engineering		Class: - TE (Sem-2)										Div.: - A&B		
Course Name: - Seminar - C306		Course Code: - 301012										Course -2015 Course		
Subject Teacher: - Prof. Savita Thombare & Prof. M.D. Kapse												A.Y.: - 2020-21 SEM-6		
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
CO1	2	2	1	1	1	2	2	1	1	2	-	1		
CO2	2	2	1	1	1	1	1	-	-	-	1	1		
CO3	2	2	2	1	2	1	1	1	-	1	-	-		
CO4	2	1	1	2	1	1	-	-	-	1	-	-		
CO5	2	1	1	1	1	1	-	-	1	-	-	-		
CO6	2	1	1	1	-	1	1	1	-	3	-	-		



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<b>Program: - Civil Engineering</b>		<b>Class: - BE (Sem-2)</b>										<b>Div.: - A&amp;B</b>	
<b>Course Name: - Dams and Hydraulic Structures – C401</b>		<b>Course Code: - 401007</b>										<b>Course -2015 Course</b>	
<b>Subject Teacher: - Prof. Sanjay Mahajan &amp; Prof. Savita Thombare</b>												<b>A.Y.: - 2020-21 SEM-8</b>	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	3	2	2	2	...	...	...	2	3	3	2	
CO2	3	3	2	3	1	...	...	...	2	2	2	3	
CO3	2	3	2	2	2	...	...	...	2	1	1	2	
CO4	3	2	2	2	1	...	...	...	1	1	2	1	
CO5	2	3	2	3	1	...	...	...	1	2	1	1	
CO6	2	2	1	2	1	...	...	...	2	1	2	1	
CO	2.5	2.67	1.83	2.33	1.33	0.00	0.00	0.00	1.67	1.67	1.83	1.67	

<b>Program: - Civil Engineering</b>		<b>Class: - BE (Sem-2)</b>										<b>Div.: - A&amp;B</b>	
<b>Course Name: - Quantity Surveying, Contracts &amp; Tenders – C402</b>		<b>Course Code: - 401008</b>										<b>Course -2015 Course</b>	
<b>Subject Teacher: - Prof. P.D.Daware &amp; Prof. Anuja Dhatrak</b>												<b>A.Y.: - 2020-21 SEM-8</b>	
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	2	2	2	1	...	2	2	2	2	2	3	
CO2	2	3	2	2	1	...	2	2	1	2	2	2	
CO3	3	3	3	2	1	...	1	2	2	2	2	3	
CO4	3	1	3	2	2	...	2	2	1	2	2	2	
CO5	3	1	3	2	3	...	1	2	2	2	2	3	
CO6	3	2	1	2	2	...	2	2	2	2	2	2	



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Program: - Civil Engineering		Class: - BE (Sem-2)										Div.: - A&B		
Course Name: - Hydropower Engineering – C403		Course Code: - 401009										Course -2015 Course		
Subject Teacher: - Prof. R.M.Jadhav & Prof. Savita Thombare												A.Y.: - 2020-21 SEM-8		
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
CO1	3	2	2	2	...	...	2	2	2	2	2	3		
CO2	2	3	2	2	...	...	2	2	1	2	2	2		
CO3	3	1	2	2	...	...	1	2	2	2	2	3		
CO4	3	2	2	2	...	...	2	2	1	2	2	2		
CO5	3	2	2	2	...	...	1	2	2	2	2	3		
CO6	2	2	1	2	...	...	2	2	2	2	2	2		
CO	2.67	2.00	1.83	2.00	0.00	0.00	1.67	2.00	1.67	2.00	2.00	2.50		

Program: - Civil Engineering		Class: - BE (Sem-2)										Div.: - A&B		
Course Name: - Construction Management – C404		Course Code: - 401010										Course -2015 Course		
Subject Teacher: - Prof. Dr. D.P.Joshi & Prof. K.M.Deore												A.Y.: - 2020-21 SEM-8		
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
CO1	3	3	2	2	2	3	2	2	2	2	...	...		
CO2	2	...	2	3	2	2	2	2	1	2	...	...		
CO3	3	2	2	2	2	3	1	2	2	2	...	...		
CO4	3	3	2	3	2	2	2	2	1	2	...	...		
CO5	2	3	2	3	2	3	1	2	2	2	...	...		
CO6	2	2	1	3	2	2	2	2	2	2	...	...		
CO	2.50	2.17	1.83	2.67	2.00	2.50	1.67	2.00	1.67	2.00	2.00	2.50		





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<b>Program: - Civil Engineering</b>		<b>Class: - BE (Sem-2)</b>										<b>Div.: - A&amp;B</b>		
<b>Course Name: - Project Stage II – C405</b>		<b>Course Code: - 401006</b>										<b>Course -2015 Course</b>		
<b>Subject Teacher: - Prof. Sachin U. Pagar</b>														
<b>COs</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>A.Y.: - 2020-21 SEM-8</b>	
CO1	3	2	2	2	...	...	2	2	2	2	2	3		
CO2	2	3	2	2	...	...	2	2	1	2	2	2		
CO3	3	1	2	2	...	...	1	2	2	2	2	3		
CO4	3	2	2	2	...	...	2	2	1	2	2	2		
CO5	3	2	2	2	...	...	1	2	2	2	2	3		
CO6	2	2	1	2	...	...	2	2	2	2	2	2		
<b>CO</b>	<b>2.67</b>	<b>2.00</b>	<b>1.83</b>	<b>2.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.67</b>	<b>2.00</b>	<b>1.67</b>	<b>2.00</b>	<b>2.00</b>	<b>2.50</b>		





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**TABLE 01: PROGRAM LEVEL COURSE-PO MATRIX FOR ALL THE COURSES**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201	2.67	2.67	2.50	2.33	2.83	1.17	-	1.50	-	-	-	1.33
C202	3.00	2.83	3.00	1.67	1.00	1.67	2.00	0.00	0.00	0.00	3.00	1.00
C203	3.00	2.83	3.00	1.33	1.00	1.67	2.00	-	-	-	3.00	1.00
C204	3.00	2.83	3.00	1.67	1.00	1.67	2.00	0.00	0.00	0.00	3.00	1.00
C205	2.50	2.33	2.00	1.83	-	-	-	1.50	1.50	1.33	2.50	1.83
C206	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C301	1.00	1.00	1.00	1.00	1.00	-	1.00	-	-	-	1.00	-
C302	1.33	2.00	1.00	1.25	1.00	1.00	1.00	-	-	-	1.66	-
C303	2.00	1.75	1.00	1.20	1.66	1.75	1.00	-	-	1.16	-	-
C304	3.00	2.00	2.83	1.40	1.00	2.00	-	1.83	2.00	1.00	-	-
C305	2.00	2.00	2.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
C306	2.00	1.50	1.17	1.17	1.20	1.17	1.25	1.00	1.00	1.75	1.00	1.00
C401	2.50	2.67	1.83	2.33	1.33	0.00	0.00	0.00	1.67	1.67	1.83	1.67
C402	2.83	2.00	2.33	2.00	1.67	0.00	1.67	2.00	1.67	2.00	2.00	2.50
C403	2.67	2.00	1.83	2.00	0.00	0.00	1.67	2.00	1.67	2.00	2.00	2.50
C404	2.50	2.17	1.83	2.67	2.00	2.50	1.67	2.00	1.67	2.00	...	...
C405	2.67	2.00	1.83	2.00	0.00	0.00	1.67	2.00	1.67	2.00	2.00	2.50
Target level overall POs	2.45	2.21	2.07	1.76	1.36	1.31	1.57	1.37	1.40	1.45	2.08	1.69



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**TABLE 02: PROGRAM LEVEL COURSE-PSO MATRIX FOR ALL THE COURSES**

Course	PSO1	PSO2	PSO3
C201	2.50	2.17	1.17
C202	3.00	3.00	1.33
C203	3.00	3.00	1.33
C204	3.00	3.00	2.00
C205	3.00	3.00	2.00
C206	3.00	3.00	3.00
C301	1.00	-	-
C302	1.00	-	-
C303	1.33	1.33	1.25
C304	2.00	1.00	1.00
C305	1.00	2.00	1.00
C306	1.67	1.20	1.20
C401	2.50	2.00	1.83
C402	3.00	2.33	2.50
C403	3.00	2.33	2.50
C405	3.00	2.33	2.50
Target level overall PSOs	3.00	2.33	2.50





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### COURSE OUTCOME ATTAINMENT

Course	Theory (%)						Oral / Practical (%)						Term Work (%)					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
C201	100	100	100	100	100	100	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA
C202	100	100	100	100	100	100	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA
C203	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA	100	100	100	100	100	100
C204	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA	100	100	100	100	100	100
C205	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C206	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	100	100	100	100	100
C301	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
C302	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C303	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C304	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
C305	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
C306	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	100	100	100	100	100
C401	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
C402	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
C403	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
C404	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
C405	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	100	100	100	100	100



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**INTERNAL ASSESSMENT**

Course	Unit Test (%)						Term work (%)					
	CO1	CO2	CO3	CO4	CO5	CO6	CO1	CO2	CO3	CO4	CO5	CO6
C201	92.86 %	96.43 %	97.14 %	96.43 %	98.57 %	94.29 %	NA	NA	NA	NA	NA	NA
C202	100	100	100	100	100	100	100	100	100	100	100	100
C203	100	100	100	100	100	100	100	100	100	100	100	100
C204	100	100	100	100	100	100	100	100	100	100	100	100
C205	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA
C206	96.19	100	95.24	100	100	100	100	100	100	100	100	100
C301	100	96.15	98.08	97.12	100	98.08	100	100	100	100	100	100
C302	98.08	99.04	98.08	99.04	100	99.04	NA	NA	NA	NA	NA	NA
C303	96.15	94.23	100	98.08	100	99.04	NA	NA	NA	NA	NA	NA
C304	98.08	96.15	98.08	98.08	99.04	97.12	100	100	100	100	100	100
C305	100	98.08	98.08	99.04	100	98.08	100	100	100	100	100	100
C306	100	100	100	100	100	100	100	100	100	100	100	100
C401	95.45	92.86	91.56	94.81	92.21	93.51	NA	NA	NA	NA	NA	NA
C402	94.81	88.31	87.01	81.17	82.47	83.12	NA	NA	NA	NA	NA	NA
C403	85.71	83.12	85.06	81.17	82.47	83.12	NA	NA	NA	NA	NA	NA
C404	100	100	100	100	100	100	NA	NA	NA	NA	NA	NA
C405	NA	NA	NA	NA	NA	NA	99.35	100	100	100	100	100



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### INDIRECT ASSESSMENT

Course	Course Exit Survey (%)					
	CO1	CO2	CO3	CO4	CO5	CO6
C201	100	98.57	98.57	100	95	96.43
C202	100	100	100	100	100	100
C203	100	100	100	100	100	100
C204	100	97	95	100	100	100
C205	100	100	100	100	100	100
C206	100	98.1	97.14	100	100	100
C301	100	96	98	97	100	98
C302	98	99	98	99	100	99
C303	96	94	100	98	100	99
C304	98	96	98	98	99	97
C305	100	98	98	99	100	98
C306	100	100	100	100	100	100
C401	95	93	92	94	92	94
C402	95	88	87	81	82	83
C403	86	83	85	81	82	83
C404	100	100	100	100	100	100
C405	100	100	100	100	100	100



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**OVERALL CO ATTAINMENT A.Y 2020-21**

Course	Direct CO Attainment		Indirect CO Attainment	Overall CO Attainment
	External	Internal		
C201	3.00	3.00	3.00	3.00
C202	3.00	3.00	3.00	3.00
C203	3.00	3.00	3.00	3.00
C204	3.00	3.00	3.00	3.00
C205	3.00	3.00	3.00	3.00
C206	3.00	3.00	3.00	3.00
C301	3.00	3.00	3.00	3.00
C302	3.00	3.00	3.00	3.00
C303	3.00	3.00	3.00	3.00
C304	3.00	3.00	3.00	3.00
C305	3.00	3.00	3.00	3.00
C306	3.00	3.00	3.00	3.00
C401	3.00	3.00	3.00	3.00
C402	3.00	3.00	3.00	3.00
C403	3.00	3.00	3.00	3.00
C404	3.00	3.00	3.00	3.00
C405	3.00	3.00	3.00	3.00



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**TABLE 03: PO ATTAINMENT VALUES**

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201	2.67	2.67	2.50	2.33	2.83	1.17	-	1.50	-	-	-	1.33
C202	3.00	2.83	3.00	1.67	1.00	1.67	2.00	0.00	0.00	0.00	3.00	1.00
C203	2.28	2.15	2.28	1.27	0.76	1.27	1.52	0.00	0.00	0.00	2.28	0.76
C204	3.00	2.83	3.00	1.67	1.00	1.67	2.00	0.00	0.00	0.00	3.00	1.00
C205	2.50	2.33	2.00	1.83	0.00	0.00	0.00	1.50	1.50	1.33	2.50	1.83
C206	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C301	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00
C302	1.33	2.00	1.00	1.25	1.00	1.00	1.00	0.00	0.00	0.00	1.66	0.00
C303	2.00	1.75	1.00	1.20	1.66	1.75	1.00	0.00	0.00	1.16	0.00	0.00
C304	3.00	2.00	2.83	1.40	1.00	2.00	-	1.83	2.00	1.00	-	-
C305	2.00	2.00	2.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00
C306	2.00	1.50	1.17	1.17	1.20	1.17	1.25	1.00	1.00	1.75	1.00	1.00
C401	2.50	2.67	1.83	2.33	1.33	0.00	0.00	0.00	1.67	1.67	1.83	1.67
C402	2.83	2.00	2.33	2.00	1.67	0.00	1.67	2.00	1.67	2.00	2.00	2.50
C403	2.67	2.00	1.83	2.00	0.00	0.00	1.67	2.00	1.67	2.00	2.00	2.50
C404	2.50	2.17	1.83	2.67	2.00	2.50	1.67	2.00	1.67	2.00	...	...
C405	2.67	2.00	1.83	2.00	0.00	0.00	1.67	2.00	1.67	2.00	2.00	2.50
Direct PO Attainment	2.41	2.17	2.03	1.75	1.26	1.13	1.43	1.05	1.05	1.18	1.88	1.34
Indirect PO Attainment	2.74	2.74	2.49	2.74	2.66	2.66	2.40	2.74	2.74	2.91	3.00	2.66
Overall PO Attainment	2.48	2.28	2.12	1.95	1.54	1.44	1.62	1.39	1.39	1.53	2.10	1.60





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**TABLE 04: PSO ATTAINMENT VALUES**

Course	PSO1	PSO2	PSO3
C201	2.50	2.17	1.17
C202	3.00	3.00	1.33
C203	3.00	3.00	1.33
C204	3.00	3.00	2.00
C205	3.00	3.00	2.00
C206	3.00	3.00	3.00
C301	1.00	0.00	0.00
C302	1.33	0.00	0.00
C303	1.33	1.33	1.25
C304	2.00	1.00	1.00
C305	1.00	2.00	0.00
C306	1.67	1.20	1.20
C401	2.50	2.00	1.83
C402	2.00	1.00	1.00
C403	3.00	2.33	2.50
C404	1.33	0.00	0.00
C405	3.00	2.33	2.50
Direct PSO Attainment	2.22	1.79	1.30
Indirect PSO Attainment	2.74	2.83	2.83
Overall PSO Attainment	2.32	2.00	1.61



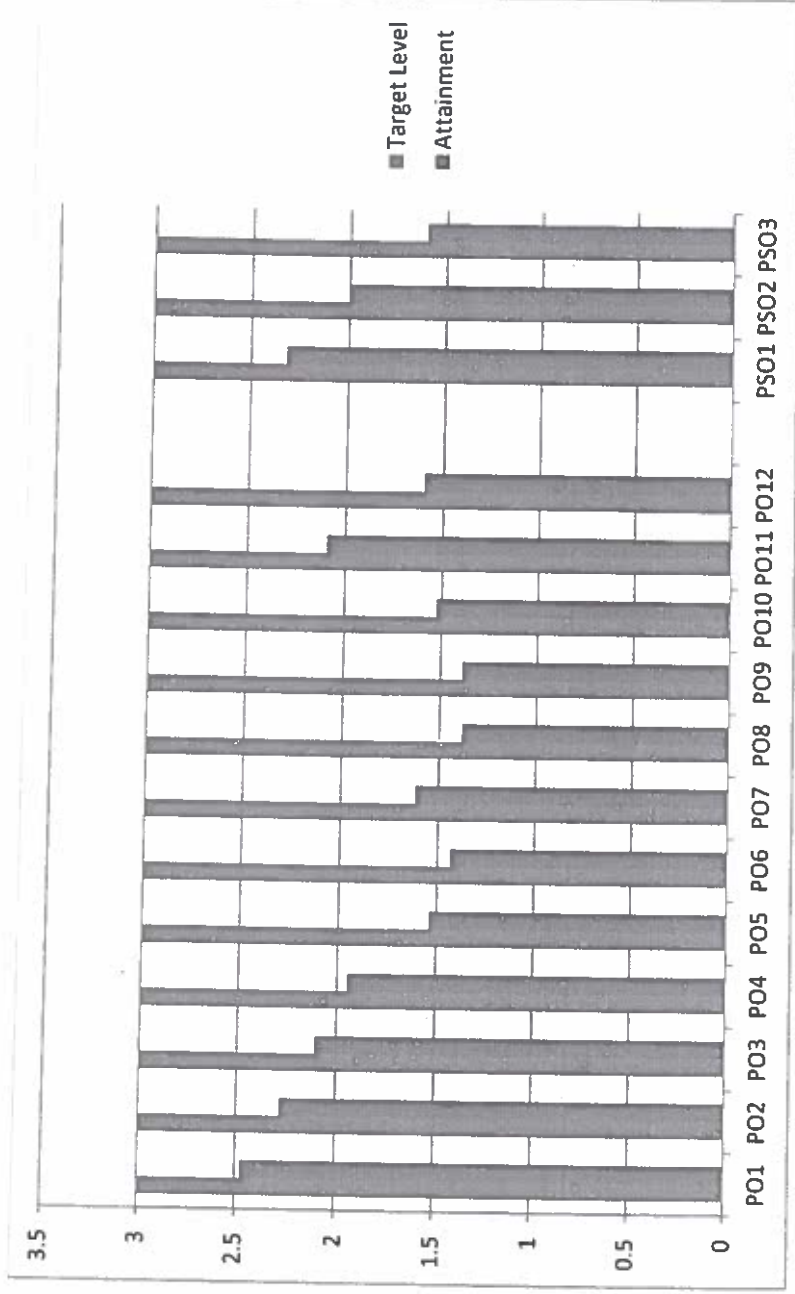
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### GRAPH: PO/PSO VS OVERALL PO/PSO ATTAINMENT



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