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CO Attainment & Gap Analysis Jan – June 2025

Table.1: CO Attainment & Gap Analysis of I Year, II SEM

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
	CO1	1.34	1.58	1.38	2.25	0.87	Not Attained	Extra tutorials will be conducted on basic surveying concepts.
	CO2	2.00	1.75	1.95	2.25	0.30	Not Attained	Additional exercises will be given on levelling and contouring.
11241201: Surveying	CO3	2.00	1.83	1.97	2.25	0.28	Not Attained	Hands-on field practice will be organized on surveying methods.
	CO4	2.03	1.67	1.96	2.25	0.29	Not Attained	Extra sessions will be conducted
	CO5	1.13	1.83	1.27	2.25	0.98	Not Attained	Remedial Classes will be conducted
	CO1	1.00	2.07	1.21	2.25	1.04	Not Attained	Revision sessions will be conducted on basic stress and strain concepts.
	CO2	1.00	1.98	1.20	2.25	1.05	Not Attained	Extra numerical practice will be provided on bending and shear stress.
11241202: Strength of Material	CO3	1.00	1.89	1.18	2.25	1.07	Not Attained	Problem-solving sessions will be organized on torsion and deflection.
	CO4	1.00	1.96	1.19	2.25	1.06	Not Attained	Complex beam and column problems will be explained through examples.
	CO5	0.77	1.86	0.99	2.25	1.26	Not Attained	Additional exercises will be assigned on strain energy and related topics.
11241203: Concrete Technology	CO1	1.36	2.17	1.52	2.25	0.73	Not Attained	Extra sessions will be conducted on properties and behavior of fresh and

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								hardened concrete.
	CO2	1.47	2.13	1.60	2.25	0.65	Not Attained	Additional practice will be provided on mix design and proportioning methods.
	CO3	1.71	2.04	1.78	2.25	0.47	Not Attained	Lab demonstrations will be organized on testing of concrete ingredients and strength.
	CO4	1.11	2.15	1.32	2.25	0.93	Not Attained	Durability and quality control aspects will be explained through case examples.
	CO5	1.20	2.02	1.36	2.25	0.89	Not Attained	Remedial Classes will be conducted
	CO1	1.60	2.00	1.68	2.25	0.57	Not Attained	More problem-solving sessions will be conducted.
	CO2	1.60	1.98	1.68	2.25	0.57	Not Attained	Additional tutorials and examples will be provided.
11241204: Fluid Mechanics-I	CO3	1.00	1.98	1.20	2.25	1.05	Not Attained	Remedial classes and quizzes will be held.
	CO4	1.60	1.96	1.67	2.25	0.58	Not Attained	Demonstration-based learning will be implemented.
	CO5	1.20	2.13	1.39	2.25	0.86	Not Attained	More assignment & problems will be conducted.
	CO1	2.04	2.35	2.10	2.25	0.15	Not Attained	Additional problem-solving sessions will be conducted.
	CO2	2.08	2.46	2.16	2.25	0.09	Not Attained	Concept-based tutorials will be provided.
11241206: Matrices & Calculus	CO3	1.94	2.39	2.03	2.25	0.22	Not Attained	Remedial classes and practice quizzes will be held.
	CO4	2.10	2.52	2.19	2.25	0.06	Not Attained	Remedial classes and quizzes will be held.
	CO5	1.20	2.42	1.44	2.25	0.81	Not Attained	more assignments will be given.
44044000; D.::L.!'	CO1	3.00	2.43	2.89	2.25	-0.64	Attained	
11241206: Building Material &	CO2	3.00	2.38	2.88	2.25	-0.63	Attained	
Construction Lab	CO3	3.00	2.46	2.89	2.25	-0.64	Attained	
	CO4	3.00	2.39	2.88	2.25	-0.63	Attained	

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	CO5	3.00	2.51	2.90	2.25	-0.65	Attained	
	CO1	3.00	2.58	2.92	2.25	-0.67	Attained	
11241207: Python	CO2	3.00	2.47	2.89	2.25	-0.64	Attained	
Programming	CO3	3.00	2.36	2.87	2.25	-0.62	Attained	
Through Python	CO4	3.00	2.55	2.91	2.25	-0.66	Attained	
	CO5	3.00	2.39	2.88	2.25	-0.63	Attained	
	CO1	2.30	2.25	2.29	2.25	-0.04	Attained	
44044000 Missa	CO2	2.30	2.31	2.30	2.25	-0.05	Attained	
11241209: Micro Project-II	CO3	2.30	2.28	2.30	2.25	-0.05	Attained	
r roject-ii	CO4	2.30	2.35	2.31	2.25	-0.06	Attained	
	CO5	2.30	2.40	2.32	2.25	-0.07	Attained	
	CO1	3.00	2.61	2.92	2.25	-0.67	Attained	
11241210:	CO2	3.00	2.71	2.94	2.25	-0.69	Attained	
Engineering	CO3	3.00	2.78	2.96	2.25	-0.71	Attained	
Physics Lab	CO4	3.00	2.64	2.93	2.25	-0.68	Attained	
	CO5	3.00	2.81	2.96	2.25	-0.71	Attained	
	CO1	3.00	2.77	2.95	2.25	-0.70	Attained	
44044044	CO2	3.00	2.70	2.94	2.25	-0.69	Attained	
11241211: Language Lab	CO3	3.00	2.58	2.92	2.25	-0.67	Attained	
Language Lab	CO4	3.00	2.83	2.97	2.25	-0.72	Attained	
	CO5	3.00	2.81	2.96	2.25	-0.71	Attained	
	CO1	2.17	2.06	2.15	2.25	0.10	Not Attained	Awareness sessions and case studies will be conducted.
11241212:	CO2	2.15	2.11	2.14	2.25	0.11	Not Attained	Additional tutorials and discussions will be provided.
Sustainability & Environmental Science	CO3	1.73	1.97	1.78	2.25	0.47	Not Attained	Remedial classes and practical examples will be held.
	CO4	1.20	2.06	1.37	2.25	0.88	Not Attained	Field visits and demonstration sessions will be organized.
	CO5	1.20	2.00	1.36	2.25	0.89	Not Attained	Interactive group activities will be conducted.

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Table.2: CO Attainment& Gap Analysis of II Year, IV SEM

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
	CO1	1.84	2.76	2.95	2.25	-0.70	Attained	
3110421: Fluid	CO2	1.79	2.79	2.96	2.25	-0.71	Attained	
Mechanics-II	CO3	2.43	2.74	2.95	2.25	-0.70	Attained	
Wicehames II	CO4	2.36	2.81	2.96	2.25	-0.71	Attained	
	CO5	2.38	2.80	2.96	2.25	-0.71	Attained	
	CO1	1.73	2.74	2.95	2.25	-0.70	Attained	
2440422. The am.	CO2	1.74	2.69	2.94	2.25	-0.69	Attained	
3110422: Theory of Structures-II	CO3	2.31	2.71	2.94	2.25	-0.69	Attained	
Of Offactures-II	CO4	2.19	2.76	2.95	2.25	-0.70	Attained	
	CO5	2.30	2.73	2.95	2.25	-0.70	Attained	
	CO1	1.77	2.83	2.97	2.25	-0.72	Attained	
3110423: Water	CO2	1.79	2.85	2.97	2.25	-0.72	Attained	
Supply Engineering	CO3	2.48	2.86	2.97	2.25	-0.72	Attained	
	CO4	2.53	2.79	2.96	2.25	-0.71	Attained	
3110423: Water Supply Engineering Lab	CO1	3.00	2.17	2.17	2.25	0.08	Not Attained	Conducted additional lectures and tutorials with examples and quizzes to strengthen conceptual understanding of Water Supply Engineering.
	CO2	3.00	2.37	2.37	2.25	-0.12	Attained	
	CO3	3.00	2.45	2.45	2.25	-0.20	Attained	
	CO1	1.77	2.73	2.95	2.25	-0.70	Attained	
3110424: Water	CO2	1.76	2.79	2.96	2.25	-0.71	Attained	
Resource Engineering	CO3	2.43	2.73	2.95	2.25	-0.70	Attained	·
Linginicering	CO4	2.48	2.76	2.95	2.25	-0.70	Attained	

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	CO5	2.33	2.72	2.94	2.25	-0.69	Attained	
	CO1	3.00	2.38	0.48	2.25	1.77	Not Attained	Additional drawing practice sessions were conducted to help students accurately draw different components of a building.
2440425 Civil	CO2	3.00	2.46	0.49	2.25	1.76	Not Attained	Extra classes and hands-on exercises were organized to improve preparation of plan, elevation, and section drawings of buildings.
3110425: Civil Drawing Lab	CO3	3.00	2.37	0.47	2.25	1.78	Not Attained	Additional lab sessions were conducted to enhance student proficiency in using AutoCAD software for civil engineering drawings.
	CO4	3.00	2.21	0.44	2.25	1.81	Not Attained	Practice assignments and project-based learning activities were given to prepare complete drawing sheets of residential, institutional, and commercial buildings.
	CO1	1.96	2.78	2.96	2.25	-0.71	Attained	
3110426: Cyber	CO2	1.93	2.85	2.97	2.25	-0.72	Attained	
Security	CO3	2.48	2.76	2.95	2.25	-0.70	Attained	
	CO4	2.49	2.74	2.95	2.25	-0.70	Attained	

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Table.3: CO Attainment& Gap Analysis of III Year, VI SEM

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
	CO 1	1.48	2.78	2.21	2.25	-0.04	Attained	
2110620: AI&ML	CO 2	1.46	2.79	2.31	2.25	0.06	Not Attained	Extra hands-on coding sessions and practice exercises were conducted
2110020. AICIVIL	CO 3	1.41	2.85	2.15	2.25	-0.10	Attained	
	CO 4	1.48	2.81	2.10	2.25	-0.15	Attained	
	CO 5	1.49	2.77	2.27	2.25	0.02	Not Attained	
2110621: Solid & Hazardous Waste	CO 1	1.32	2.54	2.27	2.25	0.02	Not Attained	Lectures, case studies, and discussions were conducted to explain the principles and concepts of waste management.
Management	CO 2	1.36	2.07	2.00	2.25	-0.25	Attained	
	CO 3	1.30	2.10	2.00	2.25	-0.25	Attained	
	CO 4	1.40	2.15	1.79	2.25	-0.46	Attained	
	CO 5	#DIV/0!	2.15	2.07	2.25	-0.18	Attained	
	CO 1	2.51	2.66	2.24	2.25	-0.01	Attained	
	CO 2	2.29	2.68	2.10	2.25	-0.15	Attained	
2110622: S.D.D (Steel)	CO 3	1.90	2.62	2.29	2.25	0.04	Not Attained	Problem-solving sessions and design exercises were conducted using relevant IS codes to design simple and built-up compression members.
	CO 4	1.94	2.65	2.16	2.25	-0.09	Attained	
	CO 5	#DIV/0!	2.66	2.14	2.25	-0.11	Attained	

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	CO 1	1.59	2.68	2.39	2.25	0.14	Not Attained	Classroom discussions and field visit were conducted to identify various building services.
	CO 2	1.57	2.64	2.45	2.25	0.20	Not Attained	Practical exercises and case studies were organized to plan fire-fighting systems in buildings.
910110: Building Maintenance & Services	CO 3	1.55	2.66	2.35	2.25	0.10	Not Attained	Assignments and interactive sessions were conducted to develop strategies for building services maintenance.
	CO 4	1.59	2.67	2.38	2.25	0.13	Not Attained	Design projects and workshops were organized to create sustainable building services plans.
	CO 5	1.54	2.60	2.34	2.25	0.09	Not Attained	Design projects and workshops were organized to create sustainable building services plans.
	CO 1	2.50	2.79	2.18	2.25	-0.07	Attained	
	CO 2	2.52	2.83	2.21	2.25	-0.04	Attained	
	CO 3	2.44	2.74	2.11	2.25	-0.14	Attained	
910111: Sustainable Material & Green Building	CO 4	2.33	2.80	2.29	2.25	0.04	Not Attained	Case studies and design exercises were conducted to apply ECBC, LEED, and GRIHA guidelines in building planning.
	CO 5	1.92	2.81	2.45	2.25	0.20	Not Attained	Practical examples and project assignments were given to integrate renewable energy sources in building designs.
2110623: Minor	CO 1	3.00	2.36	0.00	2.25	-2.25	Attained	
Project-II	CO 2	3.00	2.28	0.00	2.25	-2.25	Attained	

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	CO 3	3.00	2.51	0.00	2.25	-2.25	Attained	
	CO 4	3.00	2.19	0.00	2.25	-2.25	Attained	
	CO 5	3.00	2.35	0.00	2.25	-2.25	Attained	
	CO 1	1.43	2.84	2.29	2.25	0.04	Not Attained	Interactive lectures and case studies were conducted to enhance understanding of IPR concepts and laws.
CC	CO 2	1.48	2.88	2.26	2.25	0.01	Not Attained	Practical assignments and real-world examples were provided to apply IPR knowledge in professional contexts.
1000007: Intellectual Property Right	CO 3	1.54	2.90	2.34	2.25	0.09	Not Attained	Project-based activities were organized to develop platforms for IPR protection and compliance.
	CO 4	1.53	2.83	2.37	2.25	0.12	Not Attained	Seminars and awareness sessions were conducted to educate academia and industry on IPR and copyright compliance.
	CO 5	#DIV/0!	2.85	2.28	2.25	0.03	Not Attained	Presentations and discussions were held to explain the purpose and functions of IPR and patenting.

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Table.4: CO Attainment& Gap Analysis of IV Year, VIII SEM

Course Code & Name	Course Outcomes	Direct CO Attainment	Indirect CO Attainment	Overall CO Attainment	Target Attainment	Gap in Attainment	Status of CO Attainment	Action Taken
	CO 1	3.00	3.00	3.00	2.25	-0.75	Attained	
110821:	CO 2	3.00	3.00	3.00	2.25	-0.75	Attained	
Internship/	CO 3	3.00	3.00	3.00	2.25	-0.75	Attained	
Project	CO 4	3.00	3.00	3.00	2.25	-0.75	Attained	
	CO 5	3.00	3.00	3.00	2.25	-0.75	Attained	