



# VISAT Engineering College

PO Attainment	CEE
B.Tech in Civil Engineering	Branch: B.Tech in Civil Engineering
Semester: Semester 8	Academic Year: 2022-23

## CO PO Mapping Output

CO	Attainment	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO1	PSO2	PSO3
<b>QUANTITY SURVEYING AND VALUATION - CET402</b>																
CO1	2.28	1.52	0	0	0	0	0	0	0	0	0	0	0	1.52	0	0
CO2	2.8	1.87	0	0	0	0	0	0	0	0	0	0	0	1.87	0	0
CO3	2.28	2.28	1.52	0	0	0	0	0	0	0	0	0	0	1.52	0	0
CO4	1.6	1.6	1.07	0	0	0	0	0	0	0	0	0	0	1.07	0	0
CO5	2.28	1.52	1.52	0	0	0	0	0	0	0	0	0	0	0.76	0	0
CO6	1.68	1.68	1.12	0	0	0	0	0	0	0	0	0	0	0.56	0	0
<b>AIRQUALITY MANAGEMENT - CET464</b>																
CO1	2.8	2.8	0	0	0	0	1.87	1.87	0	0	0	0	0	0	0.93	0
CO2	2.8	2.8	0	0	0	0	1.87	0.93	0	0	0	0	0	0	0.93	0
CO3	2.8	2.8	0	0	0	0	1.87	1.87	0	0	0	0	0	0	0.93	0
CO4	3	3	0	0	0	0	2	2	0	0	0	0	0	0	2	0
CO5	2.28	2.28	0	0	0	0	2.28	1.52	0	0	0	0	0	0	1.52	0
<b>REPAIR AND REHABILITATION OF BUILDINGS - CET456</b>																
CO1	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
CO2	2.8	2.8	1.87	2.8	1.87	0	0	0	0	0	0	0	0	0.93	1.87	2.8
CO3	3	3	2	0	0	3	2	1	0	0	0	0	0	1	2	0
CO4	3	3	0	0	1	3	2	1	0	0	0	0	0	1	0	0
CO5	3	3	2	2	1	2	0	2	0	0	0	0	0	1	2	2
<b>CLIMATE CHANGE AND SUSTAINABILITY - CET468</b>																
CO1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CO2	2.08	0	1.39	0	1.39	0	0	1.39	0	0	0	0	0	0	0.69	0
CO3	2.6	0	2.6	0	2.6	0	0	1.73	0	0	0	0	0	0	0.87	0
CO4	2.4	1.6	0	0	0	0	0	2.4	0	0	0	0	0	0	0.8	0
CO5	1.28	0	0	0	0	0	0	0.85	0	0	0	0	0	0	0.43	0
<b>COMPREHENSIVE COURSE VIVA - CET404</b>																
CO1	2.8	2.8	1.87	0	0	1.87	0	0	0	0	1.87	0	0	0.93	0.93	0.93
CO2	2	2	1.33	0	0	0	0	0	0	0	1.33	0	0	0.67	0.67	0.67
CO3	2.6	2.6	2.6	0	0	0	0	0	0	0	1.73	0	0	0.87	0.87	0.87
CO4	2.6	1.73	2.6	0	0	0	0	0	0	0	1.73	0	0	0.87	0.87	0.87
CO5	2.8	2.8	1.87	0	0	0	0	0	0	0	2.8	0	0	0.93	0.93	0.93
<b>PROJECT PHASE II - CED416</b>																
CO1	2.8	1.87	1.87	1.87	0.93	1.87	1.87	1.87	0.93	0.93	0.93	0.93	1.87	1.87	1.87	1.87
CO2	2.8	1.87	1.87	1.87	0	0.93	2.8	2.8	0.93	0.93	0	0.93	0.93	1.87	1.87	1.87
CO3	2.8	0	0	0	0	0	0	0	0	2.8	1.87	1.87	0.93	1.87	1.87	1.87
CO4	2.6	0	0	0	0	1.73	0	0	2.6	1.73	1.73	2.6	1.73	1.73	1.73	1.73
CO5	2.8	1.87	2.8	2.8	0.93	1.87	0	0	0	0	0	0	0.93	1.87	1.87	1.87

CO6	2.6	0	0	0	0	1.73	0	0	1.73	1.73	2.6	0.87	0.87	1.73	1.73	1.73
<b>DESIGN OF STEEL STRUCTURES - CET401</b>																
CO 1	2	2	1.33	2	0	0	0	0	0	0	0	0	0	2	0	0
CO 2	2.8	2.8	1.87	2.8	0	0	0	0	0	0	0	0	0	2.8	0	0
CO 3	1.88	1.88	1.25	1.88	0	0	0	0	0	0	0	0	0	1.88	0	0
CO 4	2.6	2.6	1.73	2.6	0	0	0	0	0	0	0	0	0	2.6	0	0
CO5	2.8	2.8	1.87	2.8	0	0	0	0	0	0	0	0	0	2.8	0	0
<b>GROUND IMPROVEMENT TECHNIQUES - CET423</b>																
CO1	1.88	1.25	0	0	0	0	0	0	0	0	0	0	0	0.63	0	0
CO2	2.6	1.73	0	0	0	0	0	0	0	0	0	0	0	0.87	0	0
CO3	2.6	2.6	1.73	0	0	0	0	0	0	0	0	0	0	0.87	0	0
CO4	1.88	1.88	1.25	0	0	0	0	0	0	0	0	0	0	1.25	0	0
<b>ENVIRONMENTAL ENGG LAB - CEL411</b>																
CO1	2.6	2.6	1.73	0.87	0.87	0	2.6	2.6	0	0	0	0	0.87	0	0.87	0
CO2	2.6	2.6	1.73	0.87	0.87	0	2.6	2.6	0	0	0	0	0.87	0	0.87	0
<b>SEMINAR - CEQ413</b>																
CO1	2.8	1.87	1.87	0.93	0.93	0	1.87	0.93	0	0	0	0	2.8	0.93	0.93	0.93
CO2	2.6	2.6	2.6	1.73	2.6	0	1.73	0.87	0	0	0	0	2.6	0.87	0.87	0.87
CO3	2.8	2.8	1.87	0	0	2.8	0	0	0.93	0	1.87	0	2.8	0.93	0.93	0.93
CO4	2.6	2.6	0	0	0	1.73	0	0	0.87	0	2.6	0	2.6	0.87	0.87	0.87
CO5	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0	0.8	0	1.2	0	1.2	0.4	0.4	0.4
<b>PROJECT PHASE I - CED415</b>																
CO1	2.8	1.87	1.87	1.87	0.93	1.87	1.87	1.87	0.93	0.93	0.93	0.93	1.87	2.8	2.8	2.8
CO2	2.8	0	0	0	0	0	0	0	0	2.8	1.87	1.87	0.93	2.8	2.8	2.8
CO3	2.6	0	0	0	0	1.73	0	0	2.6	1.73	1.73	2.6	1.73	2.6	2.6	2.6
CO4	0.6	0.6	0	0	0	0.4	0	0	0.4	0.4	0.6	0.2	0.2	0.6	0.6	0.6
<b>INDUSTRIAL SAFETY ENGINEERING - MCN401</b>																
CO1	2.4	1.6	1.6	0	0	0	1.6	1.6	1.6	0	0	0	0.8	0	1.6	0
CO2	2.4	1.6	0.8	1.6	0	0.8	0.8	0.8	0.8	0	0	0	0.8	0	1.6	0
CO3	1.68	1.12	1.12	1.12	0	0.56	0.56	0.56	0.56	0.56	0.56	0	0.56	0.56	1.12	0
CO4	2.4	1.6	1.6	1.6	0	0.8	0.8	0.8	0.8	0.8	0.8	0	0.8	0	1.6	0
CO5	2.6	1.73	1.73	1.73	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0	0.87	0	1.73	0
<b>Energy Management - EET455</b>																
CO1	3	2	0	0	0	0	1	1	0	2	1	0	1	0	1	0
CO2	3	2	0	0	0	0	1	1	0	0	0	0	0	0	1	10
CO3	2.8	1.87	0	0	0	0	0.93	0.93	0	0	0	0	0	0	0.93	0
CO4	2.4	1.6	0	0	0	0	0.8	0.8	0	0	0	0	0	0	0.8	0
CO5	2.8	1.87	0	0	0	0	0.93	0.93	0	0	0	0	0	0	0.93	0
<b>STRUCTURAL ANALYSIS - II - CET302</b>																
CO1	2.6	1.73	2.6	0	0	0	0	0	0	0	0	0	0	0.87	0	0
CO2	2.4	2.4	2.4	0.8	0	0	0	0	0	0	0	0	0	2.4	1.6	0
CO3	1.8	1.8	1.8	0.6	0	0	0	0	0	0	0	0	0	0.6	0.6	0
CO4	2.08	2.08	2.08	0.69	0	0	0	0	0	0	0	0	0	0.69	0.69	0
CO5	1.48	1.48	1.48	0.49	0	0	0	0	0	0	0	0	0	0.49	0.99	0
CO6	1.08	1.08	1.08	0.36	0	0	0	0	0	0	0	0	0	0.36	0.36	0
<b>ENVIRONMENTAL ENGINEERING - CET 304</b>																
CO1	3	2	2	0	0	0	0	0	0	0	0	0	0	0	3	0
CO2	2.08	0	1.39	2.08	0	0	0	1.39	0	0	0	0	0	0	0.69	0

CO3	3	2	2	2	0	0	0	0	0	0	0	0	0	0	2	0
CO4	2.28	0.76	0	0.76	0	0	0	0	0	0	0	0	0	0	0.76	0
<b>DESIGN OF HYDRAULIC STRUCTURES - CET306</b>																
CO1	2.28	1.52	1.52	0	0	0	0	0	0	0	0	0	0	1.52	0	0
CO2	2.08	0	1.39	2.08	0	0	0	0	0	0	0	0	0	1.39	0	0
CO3	2.28	2.28	2.28	2.28	0	0	0	0	0	0	0	0	0	1.52	0	0
CO4	1.6	0.53	0	0.53	0	0	0	0	0	0	0	0	0	0.53	0	0
CO5	2.28	1.52	1.52	0	0	0	0	0	0	0	0	0	0	1.52	0	0
<b>ADVANCED CONCRETE TECHNOLOGY - CET352</b>																
CO1	1.48	1.48	0	0	0	0	0	0	0	0	0	0	0	0.49	0	0
CO2	2.6	2.6	0.87	0	0	0	0	0	0	0	0	0	0	0.87	0	0
CO3	2	2	0.67	1.33	0	0	0	0	0	0	0	0	0	0.67	0	0
CO4	2.8	2.8	0	0	0	0	0	0	0	0	0	0	0	0.93	0	0
CO5	2.28	2.28	0	0	0	0	0	0	0	0	0	0	0	0.76	0	0
<b>Industrial Economics &amp; Foreign Trade - HUT 300</b>																
CO1	3	2	0	0	0	0	0	0	0	0	0	3	0	2	1	0
CO2	2.9	1.93	1.93	0	0	1.93	1.93	2.9	0	0	0	2.9	0	1.93	0.97	0
CO3	2.47	1.64	1.64	0.82	0	0	0	0	0	0	0	2.47	0	1.64	0.82	0.82
CO4	2.9	1.93	1.93	0.97	0	0	0.97	0	0	0	0	2.9	0	1.93	0.97	0.97
CO5	2.47	1.64	1.64	0.82	0	0	0	0	0	0	0	2.47	0	1.64	0.82	0.82
<b>COMPREHENSIVE COURSE WORK - CET308</b>																
CO1	2.8	1.87	1.87	0	0	0	0	0	0	0	0	0	0	1.87	0	0
CO2	3	0	2	3	0	0	0	0	0	0	0	0	0	2	0	0
CO3	2.8	2.8	2.8	2.8	0	0	0	0	0	0	0	0	0	1.87	0	0
CO4	2.8	0.93	0	0.93	0	0	0	0	0	0	0	0	0	0.93	0	0
<b>TRANSPORTATION ENGINEERING LAB - CEL332</b>																
CO 1	2.8	1.87	1.87	0.93	0	0	0	0	0	0	0	0	0	0	0	1.87
CO 2	2.8	0.93	1.87	0.93	0	0	0	0	0	0	0	0	0	0	0	2.8
CO 3	3	3	3	2	0	0	0	0	0	0	0	0	0	0	0	3
CO 4	2.8	0.93	0	1.87	0	0	0	0	0	0	0	0	0	0	0	2.8
CO 5	2.8	1.87	1.87	0	0	0	0	0	0	0	0	0	0	0	0	1.87
<b>CIVIL ENGINEERING SOFTWARE LAB - CEL 334</b>																
CO1	3	3	2	2	2	1	3	0	0	2	2	0	2	2	0	1
CO2	2.8	2.8	1.87	1.87	1.87	0.93	2.8	0	0	1.87	1.87	0	1.87	1.87	0	0.93
CO3	2.8	2.8	1.87	1.87	1.87	0.93	2.8	0	0	1.87	1.87	0	1.87	1.87	0	0.93
<b>STRUCTURAL ANALYSIS - I - CET301</b>																
CO1	3	2	2	0	0	0	0	0	0	0	0	0	0	3	0	0
CO2	2.28	1.52	1.52	0	0	0	0	0	0	0	0	0	0	2.28	0	0
CO3	2.6	1.73	1.73	0	0	0	0	0	0	0	0	0	0	2.6	0	0
CO4	2.2	1.47	1.47	0	0	0	0	0	0	0	0	0	0	2.2	0	0
CO5	1.48	0.99	0.99	0	0	0	0	0	0	0	0	0	0	1.48	0	0
CO6	1.88	1.25	1.25	0	0	0	0	0	0	0	0	0	0	1.88	0	0
<b>DESIGN OF CONCRETE STRUCTURES - CET303</b>																
CO1	2.2	0.73	0	0.73	0	0	0	0	0	0	0	0	0	1.47	0	0
CO2	2.2	2.2	2.2	0	0	0	0	0	0	0	0	0	0	2.2	0	0
CO3	1.6	1.6	0	1.6	0	0	0	0	0	0	0	0	0	1.6	0	0
CO4	2.2	2.2	0	2.2	0	0	0	0	0	0	0	0	0	2.2	0	0
CO5	1.8	0.6	0	0.6	0	0	0	0	0	0	0	0	0	1.2	0	0

GEOTECHNICAL ENGINEERING - II - CET 305																
CO 1	1.8	1.8	0	0	1.8	0	0	0	0	0	0	0	0	1.8	0	0
CO 2	2.6	2.6	0	0	0	0	0	0	0	0	0	0	0	0.87	0	0
CO 3	3	2	3	0	0	0	0	0	0	0	0	0	0	3	0	0
CO 4	2.6	2.6	1.73	2.6	0	0	0	0	0	0	0	0	0	2.6	0	0
CO 5	2.6	2.6	2.6	0	0	0	0	0	0	0	0	0	0	2.6	0	0
HYDROLOGY & WATER RESOURCES ENGINEERING - CET 307																
CO1	2.28	2.28	2.28	0	0	0	0	0.76	0	0	0	0	0	0	1.52	0
CO2	1.6	1.6	1.6	0	0	0	0	0.53	0	0	0	0	0	0	1.07	0
CO3	2.08	2.08	2.08	0	0	0	0	0.69	0	0	0	0	0	0	1.39	0
CO4	1.88	1.88	1.88	0	0	0	0	0.63	0	0	0	0	0	0	1.25	0
CO5	1.08	1.08	1.08	0	0	0	0	0.36	0	0	0	0	0	0	0.72	0
CONSTRUCTION TECHNOLOGY AND MANAGEMENT - CET309																
CO1	3	3	0	0	0	0	1	0	0	0	1	0	0	1	0	0
CO2	3	3	0	0	0	0	1	0	0	0	1	0	0	2	0	0
CO3	3	3	0	0	0	0	1	0	0	0	1	0	0	1	0	0
CO4	2.28	2.28	0	0	0	0	0.76	0	0	0	0.76	0	0	0.76	0	0
CO5	1.08	1.08	0.72	0	0	0	0.36	0	0	0	0.36	1.08	1.08	0.72	0.72	0
CO6	1.08	1.08	1.08	0	0	0.36	0	0	0	0.72	0.36	1.08	1.08	0.72	1.08	0
DISASTER MANAGEMENT - MCN 301																
CO1	3	2	2	0	0	0	2	0	0	0	2	0	2	1	1	1
CO2	2.6	1.73	2.6	1.73	0	0	1.73	2.6	0	0	2.6	0	1.73	0.87	0.87	0.87
CO3	2	1.33	2	2	1.33	0	1.33	2	0	0	1.33	0	1.33	0.67	0.67	0.67
CO4	2.6	1.73	2.6	2.6	0	0	1.73	2.6	0	0	0	0	1.73	0.87	0.87	0.87
CO5	2.28	1.52	2.28	0	0	0	1.52	2.28	0	0	0	0	1.52	0.76	0.76	0.76
CO6	1.28	0.85	1.28	0	0	0	0.85	1.28	1.28	0	0	0	0	0.43	0.43	0.43
MATERIAL TESTING LAB II - CEL331																
CO 1	3	3	2	0	0	0	0	0	0	2	2	0	0	2	0	0
CO 2	3	3	2	0	0	0	0	0	0	2	2	0	0	2	0	0
CO3	3	3	2	0	0	0	0	0	0	2	2	0	0	2	0	0
GEOTECHNICAL ENGINEERING LAB - CEL 333																
CO1	3	3	0	0	0	0	0	0	0	2	2	0	0	3	0	0
CO2	3	3	0	0	0	0	0	0	0	2	2	0	0	3	0	0
CO3	3	3	2	0	0	0	0	0	0	2	2	0	0	3	0	0
CO4	3	3	0	0	0	0	0	0	0	2	2	0	0	3	0	0
CO5	2.8	2.8	0	0	0	0	0	0	0	1.87	1.87	0	0	2.8	0	0
CO6	3	3	1	0	0	0	0	0	0	2	2	0	0	3	0	0
PROBABILITY, STATISTICS AND NUMERICAL METHODS - MAT202																
CO1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO2	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CO4	2.8	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0.93	0.93
CO5	3	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1
ENGINEERING GEOLOGY - CET202																
CO1	3	2	0	0	0	0	1	2	0	0	0	0	0	1	0	0
CO2	3	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0
CO3	2.8	2.8	0	0	0	0	0	0	0	0	0	0	0	0.93	0	0
CO4	2.28	2.28	1.52	0	0	0	0	0	0	0	0	0	0	0.76	0	0

CO5	2.08	2.08	0.69	2.08	0	0	2.08	2.08	1.39	0	0	0	1.39	0.69	0	0
<b>GEOTECHNICAL ENGINEERING – I - CET204</b>																
CO 1	2.84	2.84	0	0	0	0	0	0	0	0	0	0	0	1.89	0	0
CO 2	2.84	2.84	0	0	0	0	0	0	0	0	0	0	0	1.89	0	0
CO 3	2.64	1.76	2.64	0	0	0	0	0	0	0	0	0	0	1.76	0.88	0
CO 4	1.92	1.28	1.92	0	0	0	0	0	0	0	0	0	0	1.28	0.64	0
CO 5	0.72	0.48	0.72	0	0	0	0	0	0	0	0	0	0	0.48	0.48	0
<b>TRANSPORTATION ENGINEERING - CET206</b>																
CO1	2.08	2.08	2.08	2.08	0.69	0	0.69	2.08	0.69	0	1.39	0	0.69	0.69	0.69	0
CO2	3	3	1	3	1	0	1	1	1	0	1	0	1	1	2	0
CO3	3	3	2	2	1	0	0	0	0	1	2	0	2	1	2	0
CO4	2.8	1.87	0	0	0	0	0	1.87	0.93	0	0	0	1.87	0.93	1.87	0
CO5	2.8	2.8	2.8	2.8	0	0	2.8	0	1.87	0	0	0	0	0.93	1.87	0
<b>DESIGN &amp; ENGINEERING - EST200</b>																
CO 1	3	2	1	0	0	0	0	1	0	0	1	0	0	0	1	0
CO 2	3	0	2	0	0	0	1	0	1	0	0	0	2	1	0	0
CO 3	3	0	0	2	0	0	1	1	0	2	2	0	1	1	0	0
<b>CONSTITUTION OF INDIA - MCN202</b>																
CO 1	2.28	0	0	0	0	0	1.52	1.52	1.52	0	1.52	0	0	0.76	0	0
CO 2	3	0	0	0	0	0	3	3	3	0	3	0	0	0	1	0
CO 3	2.28	0	0	0	0	0	2.28	1.52	2.28	0	2.28	0	0	0.76	0	0
CO 4	2.28	0	0	0	0	0	2.28	1.52	2.28	0	2.28	0	0	0.76	0	0
CO 5	3	0	0	0	0	0	3	2	3	0	3	0	0	0	1	0
CO 6	2.28	0	0	0	0	0	2.28	2.28	2.28	0	1.52	0	0	0.76	0	0
<b>MATERIAL TESTING LAB- I - CEL202</b>																
CO 1	3	3	2	2	2	1	3	0	0	2	2	0	2	2	0	1
CO 2	2.8	2.8	1.87	1.87	1.87	0.93	2.8	0	0	1.87	1.87	0	1.87	1.87	0	0.93
CO3	3	3	2	2	2	1	3	0	0	2	2	0	2	2	0	1
<b>FLUID MECHANICS LAB - CEL204</b>																
CO 1	2.8	1.87	1.87	0	0	0	0	0	1.87	2.8	0	0	0	0	0	0
CO 2	2.8	1.87	1.87	0	0	0	0	0	1.87	2.8	0	0	0	0	0	0
CO 3	3	3	3	0	2	0	0	0	2	3	3	0	0	0	0	0
CO 4	2.8	0.93	0	0	0	0	0	0	1.87	1.87	2.8	0	0	0	0	0
<b>PARTIAL DIFFERENTIAL EQUATION AND COMPLEX ANALYSIS - MAT201</b>																
CO1	2.84	2.84	2.84	2.84	2.84	1.89	0.95	0	0	0	1.89	0	1.89	0	0.95	0
CO2	2.84	2.84	2.84	2.84	2.84	1.89	0.95	0	0	0	1.89	0	1.89	0	0.95	0
CO3	2.84	2.84	2.84	2.84	2.84	1.89	0.95	0	0	0	1.89	0	1.89	0	0.95	0
CO4	2.84	2.84	2.84	2.84	2.84	1.89	0.95	0	0	0	1.89	0	1.89	0	0.95	0
CO5	2.84	2.84	2.84	2.84	2.84	1.89	0.95	0	0	0	1.89	0	1.89	0	0.95	0
<b>MECHANICS OF SOLIDS - CET201</b>																
CO1	2.84	0.95	0	0	0	0	0	0	0	0	0	0	0	0.95	1.89	0.95
CO2	2.84	1.89	0.95	0	0	0	0	0	0	0	0	0	0	1.89	0.95	2.84
CO3	2.84	2.84	1.89	0	0	0	0	0	0	0	0	0	0	0.95	1.89	2.84
CO4	2.12	2.12	1.41	0	0	0	0	0	0	0	0	0	0	2.12	0.71	0.71
CO5	1.92	1.92	1.28	0	0	0	0	0	0	0	0	0	0	1.92	1.92	0
CO6	2.84	2.84	2.84	0.95	0	0	0	0	0	0	0	0	0	1.89	1.89	2.84
<b>FLUID MECHANICS &amp; HYDRAULICS - CET203</b>																
CO1	2.48	1.65	1.65	0	0	0	0	0	0	0	0	0	0	0.83	1.65	0

CO2	1.76	1.17	1.17	0	0	0	0	0	0	0	0	0	0	0	1.76	1.76
CO3	1.56	1.56	1.56	0	0	0	0.52	0	0	0	0	0	0	0	1.56	1.04
CO4	1.56	1.56	1.56	0	0	0	0.52	0	0	0	0	0	0	0	1.04	1.04
CO5	2.48	2.48	2.48	1.65	0	0	0	0	0	0	0	0	0	0	2.48	2.48

**SURVEYING & GEOMATICS - CET205**

CO1	2.28	2.28	2.28	0	1.52	1.52	0	0	0	0	0	0	0	0.76	2.28	2.28
CO2	1.8	1.8	1.8	0	1.2	0	0	0	0	0	0	0	0	0	1.2	1.8
CO3	2.08	2.08	2.08	0	0	0	0	0	0.69	1.39	0	0	0	0	0.69	2.08
CO4	2.08	2.08	1.39	0	0	0	0	0	0	0	0	0	0	0.69	1.39	1.39
CO5	2.08	2.08	1.39	0.69	0.69	0	0	0	0.69	1.39	0	0	0	0.69	2.08	2.08
CO6	2.8	2.8	0	0	1.87	1.87	0	0	0.93	0	0	0	1.87	0	0.93	1.87

**PROFESSIONAL ETHICS - HUT200**

CO 1	2.28	0.76	0	0	0	0	0	0	1.52	0	0	1.52	0	0.76	0.76	0.76
CO 2	2.08	0	0	0	0	0	0	0	1.39	0	0	1.39	0	0	0	0
CO 3	2.6	0	0	0	0	0	0	0	2.6	0	0	1.73	0	0.87	0.87	0.87
CO 4	2.08	0	0	0	0	0	0	0	2.08	0	0	1.39	0	0	0.69	0
CO 5	2.8	0	0	0	0	0	0	0	2.8	0	0	1.87	0	0	0.93	0

**SUSTAINABLE ENGINEERING - MCN201**

CO 1	2.8	0	0	0	0	0	1.87	2.8	0	0	0	0	0	0	0	0
CO 2	2.8	0	0	0	0	0	1.87	2.8	0	0	0	0	0	0	0	0
CO 3	2.4	0	0	0	0	0	1.6	2.4	0	0	0	0	0	1.6	0	0
CO 4	2.6	0	0	0	0	0	1.73	2.6	0	0	0	0	0	1.73	0	0
CO 5	2.6	0	0	0	0	0	1.73	2.6	0	0	0	0	0	1.73	0	0

**CIVIL ENGINEERING PLANNING & DRAFTING LAB - CEL201**

CO 1	3	3	0	0	0	0	0	0	2	3	3	0	0	1	1	2
CO 2	2.8	2.8	0	0	0	0	0	0	1.87	2.8	2.8	0	0	1.87	2.8	2.8
CO3	2.8	2.8	0	0	0	0	0	0	1.87	2.8	2.8	0	0	1.87	0.93	2.8
CO 4	2.8	2.8	0	0	0	0	0	0	1.87	1.87	2.8	0	0	0.93	0.93	0

**SURVEY LAB - CEL203**

CO 1	3	3	0	0	0	0	0	0	1	2	0	0	0	0	1	1
CO 2	3	3	0	0	1	0	0	0	1	2	0	0	0	0	2	2
CO 3	2.8	2.8	0	0	0.93	0	0	0	0.93	1.87	0	0	0	0	1.87	0.93
CO 4	3	3	0	0	1	3	0	0	1	2	0	0	2	0	3	3
CO 5	2.8	2.8	0	0	0	2.8	0	0	0.93	0	0	0	1.87	0	0.93	2.8

**VECTOR CALCULUS, DIFFERENTIAL EQUATIONS AND TRANSFORMS - MAT 102**

CO1	2.8	0.93	0.93	0.93	0	0	0	0	0	0	0	0	0.93	0.93	0	0
CO2	2.8	0.93	0.93	0.93	0	0	0	0	0	0	0	0	0.93	0.93	0	0
CO3	2.6	0.87	0.87	0.87	0	0	0	0	0	0	0	0	0.87	0.87	0	0
CO4	2.8	0.93	0.93	0.93	0	0	0	0	0	0	0	0	0.93	0.93	0	0
CO5	2.8	0.93	0.93	0.93	0	0	0	0	0	0	0	0	0.93	0.93	0	0

**ENGINEERING GRAPHICS - EST 110**

CO1	2.44	2.44	0	0	0	0	0	0	0	0	0	0	0	2.44	2.44	0
CO2	2.44	2.44	0	0	0	0	0	0	0	0	0	0	0	2.44	2.44	0
CO3	2.8	2.8	0	0	0	0	0	0	0	0	0	0	0	2.8	2.8	0
CO4	2.28	2.28	0	0	0	0	0	0	0	0	0.76	0	0	2.28	2.28	0
CO5	2.44	2.44	0	0	0	0	0	0	0	0	0	1.63	0	0	2.44	2.44
CO6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**BASICS OF CIVIL & MECHANICAL ENGINEERING - EST 120**

PRINCIPAL

CO1	2.08	2.08	0	0	0	0	2.08	1.39	1.39	0	0	0	0	0.69	1.39	0.69
CO2	2.8	2.8	1.87	0	0.93	2.8	0	0	2.8	0	0	0	0	1.87	1.87	0.93
CO3	1.88	1.88	1.25	0	0	1.88	0	0	0	1.25	0	0	0	0.63	1.25	0.63
CO4	2.08	2.08	1.39	0	0	2.08	0	0	0	1.39	0	0	0	0.69	1.39	0
CO5	2.8	2.8	1.87	0	0	2.8	1.87	2.8	0	1.87	0	0	0	0	0.93	0
CO6	1.12	1.12	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0
CO7	2.8	2.8	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0
CO8	2.04	2.04	0.68	0	0	0	0	0	0	0	0	0	0	0	0	0
CO9	2.08	2.08	1.39	0	0	0	0	0	0	0	0	0	0	0	0	0
CO10	2.08	2.08	0.69	0	0	0	0	0	0	0	0	0	0	0	0	0
CO11	2.08	2.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**PROFESSIONAL COMMUNICATION - HUN 102**

CO1	3	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0
CO2	3	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0
CO3	2.28	0	0	0	0	0	0.76	0	0	0.76	2.28	0	0	0.76	0	0
CO4	0.6	0	0	0	0	0	0	0	0	0	0.6	0	0.2	0	0	0.2
CO5	0.6	0	0.2	0	0	0	0	0	0	0.4	0.6	0	0	0	0	0
CO6	0.6	0.2	0	0	0	0	0.2	0	0	0.2	0.6	0	0	0	0.2	0

**PROGRAMING IN C - EST 102**

CO1	2.28	0.76	0.76	0.76	0.76	0	0.76	0	0	0	0.76	0.76	0.76	0	0	0
CO2	3	1	1	1	1	1	0	0	0	0	1	0	1	0	0	0
CO3	3	1	1	1	1	1	0	0	0	0	1	0	1	0	0	0
CO4	2.4	0.8	0.8	0.8	0.8	0.8	0	0	0	0	0.8	0.8	0.8	0	0	0
CO5	1.88	0.63	0.63	0	0	0.63	0	0	0	0	0.63	0	0.63	0	0	0
CO6	1.88	0.63	0.63	0	0	0.63	0	0	0	0	0.63	0	0.63	0	0	0

**ENGINEERING PHYSICS LAB - PHL 120**

CO1	3	3	0	0	0	2	0	0	1	2	0	0	1	0	1	1
CO2	3	3	0	0	0	2	0	0	1	2	0	0	1	1	0	0
CO3	3	3	0	0	0	2	0	0	1	2	0	0	1	0	0	0
CO4	3	3	0	0	0	2	0	0	1	2	0	0	1	0	0	1
CO5	3	3	0	0	0	2	0	0	1	2	0	0	1	0	0	1

**CIVIL & MECHANICAL WORKSHOP - ESL 120**

CO1	2.8	0.93	0	0	0	0.93	0.93	0	0	1.87	1.87	0	0	1.87	1.87	0.93
CO2	2.8	0.93	0	0	0	0.93	0.93	0	0	1.87	1.87	0	0	1.87	0.93	0.93
CO3	2.8	0.93	0	0	0	0.93	0.93	0	1.87	1.87	1.87	0.93	0	1.87	1.87	0.93
CO4	2.8	0.93	0	0	0	0.93	0.93	0	1.87	1.87	1.87	0.93	0.93	1.87	1.87	0.93
CO5	2.8	0.93	0	0	0	0.93	0.93	0	0	1.87	1.87	0	0.93	1.87	0.93	0.93
CO6	2.8	1.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0.93
CO7	2.8	1.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0.93
CO8	2.8	1.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0.93

**ENGINEERING PHYSICS B (FOR NON-CIRCUIT BRANCHES) - PHT 110**

CO1	2.44	2.44	1.63	0	0	0	0	0	0.81	1.63	0	0	0.81	0	0.81	0
CO2	2.44	2.44	1.63	0	0	0	0	0	0.81	1.63	0	0	0.81	0	0.81	0
CO3	3	3	0	0	0	0	0	0	1	2	0	0	1	1	0	0
CO4	3	3	0	0	0	0	0	0	1	2	0	0	1	1	1	1
CO5	2.44	2.44	1.63	0	0	0	0	0	0.81	1.63	0	0	0.81	0	0	0

**LINEAR ALGEBRA AND CALCULUS - MAT 101**

CO1	2.48	2.48	0.83	0	0	0	0	0	0	0	0	0	0	0.83	0.83	0
CO2	2.48	2.48	0.83	0	0	0	0	0	0	0	0	0	0	0.83	0.83	0



CO3	2.08	2.08	0.69	0	0	0	0	0	0	0	0	0	0	0.69	0.69	0	
CO4	1.76	1.76	0.59	0	0	0	0	0	0	0	0	0	0	0.59	0.59	0	
CO5	1.56	1.56	0.52	0	0	0	0	0	0	0	0	0	0	0.52	0.52	0	
<b>LIFE SKILLS - HUN 101</b>																	
CO1	2.28	0	0	0	0	0	1.52	0	0.76	1.52	1.52	0.76	2.28	0	0	0	
CO2	2.28	0	0	0	0	0	0	0	0	2.28	0	0	1.52	0	0	0	
CO3	2.28	0	0	0	0	0	0.76	0	0	0.76	2.28	0	0	1.52	0	0	
CO4	2.28	0	0	0	0	0	0	0	0	0	2.28	0	0.76	0	1.52	0	
CO5	2.28	0	2.28	1.52	0.76	0	0	0	0	0	0	0	0	0	1.52	0	
CO6	1.8	0	0	0	0	0	0.6	0	0	1.8	0	0	0	0	0	1.8	
<b>ENGINEERING CHEMISTRY - CYT 100</b>																	
CO1	3	1	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0
CO2	3	2	1	0	0	0	0	0	0	0	0	0	2	0	1	0	
CO3	2.6	1.73	0.87	0	0	0	0	0	0	0	0	0	1.73	0	0.87	0	
CO4	3	1	1	0	0	0	0	0	0	0	0	0	1	0	1	0	
CO5	3	2	0	0	0	0	0	0	0	0	0	0	2	0	2	0	
<b>ENGINEERING MECHANICS - EST 100</b>																	
CO1	2.64	1.76	1.76	0	0	0	0	0	0	0	0	0	0	0.88	0	0	
CO2	2.64	2.64	2.64	0	0	0	0	0	0	0	0	0	0	0	0	0	
CO3	2.64	2.64	2.64	0	0	0	0	0	0	0	0	0	0	0.88	0	0	
CO4	2.84	2.84	2.84	0	0	0	0	0	0	0	0	0	0	0	0	0	
CO5	2.64	2.64	2.64	0	0	0	0	0	0	0	0	0	0	0	0.88	0	
<b>BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING - EST 130</b>																	
CO1	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0.93	0	0	
CO2	2.8	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0.93	0	
CO3	2.8	0	0.93	0	0	0	0	0	0	0	0	0	0	0.93	0	0	
CO4	2.8	0	0	0.93	0	0	0	0	0	0	0	0	0	0	0	0	
CO5	1.87	0	0	0	0.62	0	0	0	0	0	0	0	0	0	0	0.62	
CO6	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<b>ENGINEERING CHEMISTRY LAB - CYL 120</b>																	
CO1	0.88	0.88	0	0	0	0.59	0	0	0	0	0	0	0.88	0	0.29	0	
CO2	0.68	0.68	0	0	0	0.68	0	0	0	0	0	0	0.68	0	0.23	0	
CO3	0.48	0.48	0	0	0	0.48	0	0	0	0	0	0	0.48	0	0.16	0	
CO4	0.88	0.88	0	0	0	0.88	0	0	0	0	0	0	0.88	0	0.29	0	
CO5	0.88	0.88	0	0	0	0.29	0	0	0	0	0	0	0.88	0	0.29	0	
CO6	1.08	1.08	0	0	0	0.36	0	0	0	0	0	0	1.08	0	0.36	0	
<b>ELECTRICAL &amp; ELECTRONICS WORKSHOP - ESL 130</b>																	
CO1	2.8	0	0	0	0	0	2.8	0	0	0	0	0	0.93	2.8	0	0	
CO2	2.6	1.73	0	0	0	0	0	0	0	0	0.87	0	0	2.6	0	0	
CO3	2.6	1.73	0	0	0.87	0	0.87	0	0.87	1.73	1.73	0	1.73	2.6	0	0.87	
CO4	2.8	2.8	0	0	0	0	0	0	0	0	0	0	1.87	2.8	0	0	
CO5	3	3	0	0	0	2	0	0	0	0	0	0	2	3	0	0	
CO6	2.8	2.8	0	0	0	1.87	0	0	0	0	0	0	0.93	2.8	0	0	
CO7	3	0	0	0	0	0	0	0	0	3	2	0	2	3	0	1	



  
**PRINCIPAL**  
**VISAT ENGINEERING COLLEGE**  
**(Affiliated to APJ AKT University)**  
**Elanji, Ernakulam - 686 665**