

Report on PO Attainment

Bachelor of Engineering Batch 2016

Department of Civil Engineering

Report on PO Attainment
Bachelor of Engineering Batch 2016
Department of Civil Engineering

Dated: 20/07/2020

Overview

An outcome is a result of learning that reveals what the student should be able to do at the end of a course. Outcome-based curriculum is a performance-based education system which is crucial in determining the type of graduates we want. In this approach, the desired educational outcomes should be clearly specified. Having an unequivocal outcome facilitates the nature of course offered, its content and also the teaching plans. Constructive alignment is a principle used for devising teaching and learning activities and assessment tasks that directly address the course outcomes (COs) intended. The outcome-based approach provides a mechanism to ensure the accountability and quality assurance to an educational programme.

Course mapping shows the educational relationship (Level of Learning achieved) between Course Outcomes and Program Outcomes for a Course. The result strongly indicates whether the students are able to achieve the course learning objectives. The method can be used for any course and is a good way to evaluate a course syllabus.

The below mentioned steps shall address the procedure for assessing the percentage achievement of Program Outcomes.

Program Outcome

The Program Outcomes for the Civil Engineering Program are the following:


- PO-01:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.
- PO-02:** Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO-03:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.


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- PO-04:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO-05:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex.
- PO-06:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO-07:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO-08:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO-09:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO-010:** Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO-011:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO-012:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Course Outcomes mapping with Program Outcomes:

The course outcomes were mapped with the program outcomes of Bachelor of Engineering (Department of Civil Engineering) on the scale of High, Medium and Low. Thereafter, the mapped values were allocated with weights i.e., High: 3; Medium: 2; and Low: 1. The subject wise result was compiled for 1st, 2nd, 3rd, 4th, 5th, 6th, 7th & 8th semester.


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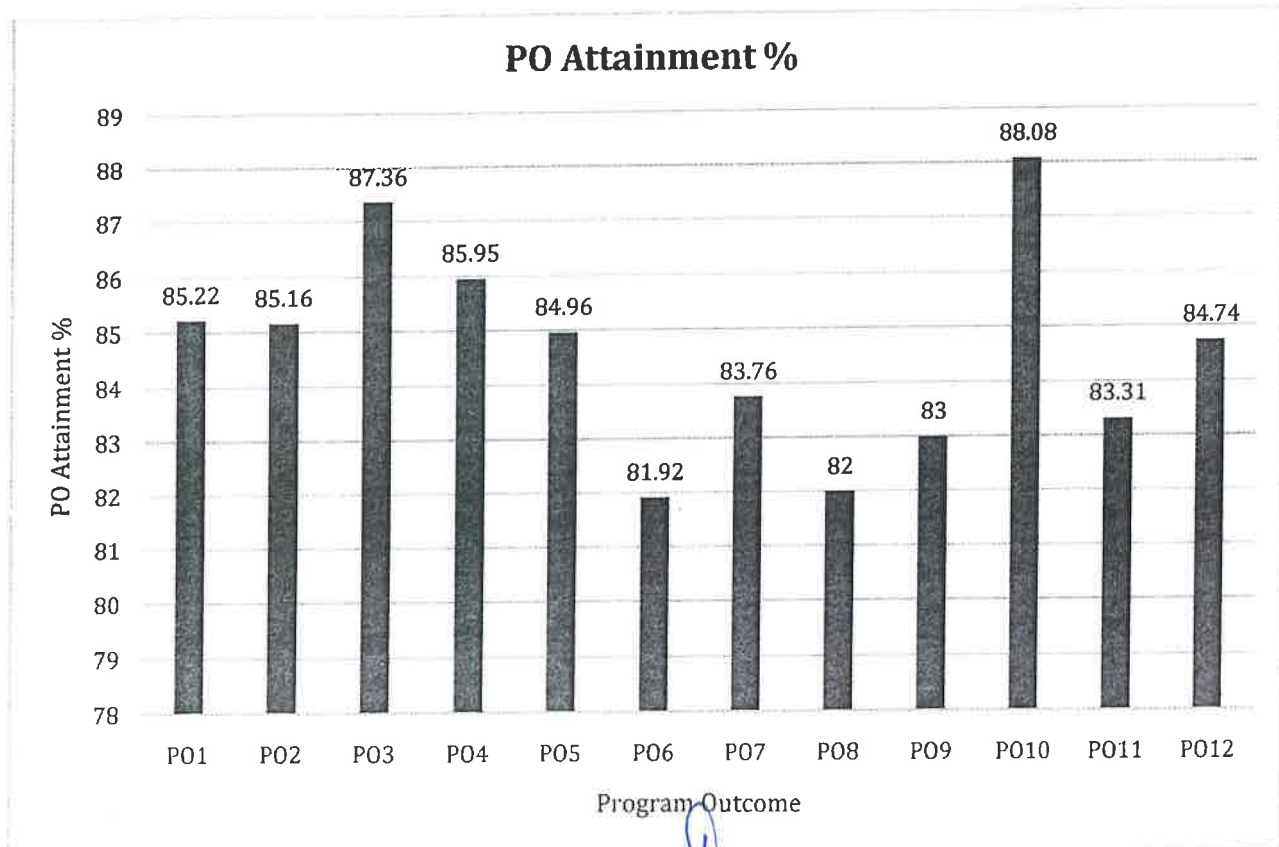
PO Attainment of subjects: B.E. Civil Engineering

Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
HUL 2101	75	75	75	-	-	-	75	75	75	75	-	75
AML5101	76	76	-	76	76	-	-	76	76	76	-	76
PYL5101	70	70	-	-	-	70	-	-	-	-	-	70
EEL5102	66	67	-	-	66	-	-	-	-	-	-	67
CHL4101	65	65	-	-	65	65	-	-	-	-	-	65
GEL4101	75	75	-	75	-	-	-	75	75	-	-	75
PYP1101	95	95	-	95	-	95	-	-	-	-	-	95
EEP1102	95	95	-	-	-	-	95	-	-	-	-	95
CHP1101	89	89	-	-	-	-	-	-	-	-	-	89
AML5102	95	95	-	95	-	95	-	-	95	95	-	95
MEW2101	94	94	-	94	-	-	-	-	-	-	94	94
PYL5102	85	85	85	-	87	-	-	-	-	86	-	-
MEL4102	91	91	-	-	91	-	91	-	-	92	91	-
SP1103	88	-	-	88	88	-	-	88	88	-	88	88
MEP1102	95	95	95	95	-	-	-	-	-	95	-	95
ASP3101	95	95	95	95	95	-	-	-	-	95	-	95
CEL5102	95	95	95	95	95	-	-	-	95	95	95	95
CSP2103	62	62	-	-	62	-	62	62	62	-	62	62
CEL3205	88	88	-	88	-	-	-	-	-	-	88	88
CEL5201	53	-	-	53	-	-	-	53	53	-	-	53
CEP1203	95	-	-	95	95	-	-	-	-	95	-	95
CEP1207	64	64	-	-	64	-	64	-	-	-	-	64
CEP1215	64	64	-	64	-	-	64	-	-	-	-	64
CEP2209	92	92	-	92	-	-	92	-	-	-	-	92
CEP1211	95	95	-	95	-	-	-	-	-	-	95	95
CEL5203	82	-	-	82	82	-	-	82	82	-	82	82
CEL4207	83	83	83	83	83	-	-	-	-	-	-	83
CEL3202	72	-	-	72	-	-	-	72	72	-	-	72
CEP5304	95	95	95	95	95	-	-	-	-	95	-	95
CEP1212	94	-	94	94	-	-	-	94	94	94	-	94
CEP1206	95	-	-	95	-	-	-	-	-	-	-	95
CEP1202	93	-	-	-	93	-	-	-	-	93	-	93
EL3208	84	-	-	84	-	-	-	-	-	-	-	84
CEL4212	74	74	-	-	-	74	-	-	-	-	74	74
CEL4206	72	-	-	72	-	-	-	-	-	-	-	72
CEP1303	96	96	96	96	-	-	-	96	96	-	-	96
CLP2501	91	-	-	-	-	91	91	-	-	-	-	-
HUL3301	85	-	-	-	-	-	85	-	-	-	-	-

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HUL2401	55.00000000000001	55.00000000000001	55.00000000000001	55.00000000000001	-	-	55.00000000000001	-	-	-	-	55.00000000000001
CEP1308	96	96	-	-	96	-	96	96	96	-	-	96
CEP1311	96	96	-	-	96	96	-	-	-	-	-	96
CEL4305	74	74	-	74	-	74	-	74	74	74	74	74
CEL3303	86	86	86	-	-	-	-	-	86	-	-	86
CET5301	97	-	-	97	-	-	-	-	-	-	-	97
CEL3311	83	-	83	83	83	-	83	83	83	-	83	83
CEL5308	65	65	65	65	65	65	65	65	65	65	-	65
CLP2502	97	97	97	97	97	-	-	-	-	97	-	97
CEP5202	98	98	98	-	-	-	98	-	-	-	-	98
CEP1310	98	98	98	98	-	-	-	98	98	-	-	98
CEL5314	83	-	83	83	83	-	-	83	83	83	83	83
CEL4304	81	81	-	-	81	-	81	81	81	81	-	81
CEL3302	88	88	-	88	-	-	-	-	-	88	-	88
CEL3310	81	81	81	81	-	81	-	-	81	-	-	81
CEL3308	91	91	-	91	-	-	91	-	-	91	-	91
CEP3307	97	-	-	97	-	-	-	97	97	-	-	97
GTI4301	86	-	86	-	-	87	86	86	-	86	-	86
GTI2401	96	96	-	96	-	96	-	96	96	-	-	96
CEP1427	99	-	-	99	-	-	99	-	-	99	-	99
CEP1302	98	98	-	-	98	-	98	98	98	-	-	98
CEL3408	89	89	89	89	-	-	-	-	-	89	-	-
CEL3427	89	89	89	89	89	-	89	-	-	-	-	89
CEL4306	74	-	-	74	-	76	-	74	74	76	74	74
CET9403	99	99	99	-	99	-	99	-	-	99	-	-
POA	85.22	85.16	87.36	85.95	84.96	81.92	83.76	82.00	83.00	88.08	83.31	84.74

Representation of PO attainment:




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Analysis -

The depiction shows that the students of Bachelor of Engineering batch 2016 have effectively attained a minimum of 85% in 5 program outcomes and more than 80% in the rest of the 7 program outcomes. The PO attainment percentage reflects on the requirement of reassessing the evaluation strategies and also the reforms are required in the examinations w.r.t designing the question papers to achieve normal distribution of PO attainment.


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Department of Civil Engineering
School of Engineering & Technology
Chitkara University, Himachal Pradesh
Department of Civil Engineering



Course Outcome Attainment Report

Programme

B.E. [Civil Engineering]

Batch 2018

Subject

Fluid Mechanics II

Code CEL3202

Semester 4

Subject Assessment: *Fluid Mechanics II*

#	Tools	Task	Task-Id	Marks	Wt (%)	Weighted Marks (%)
1	Internal	1	261	40	100	40
2	External	1	262	60	100	60

Course Outcome: *Fluid Mechanics II*

SNo	Course Outcome	Wt(%)
CO1	Ability to develop the open channel flow equations from the basic conservation equations.	50
CO2	Ability to explain the terms of the open channel flow equations and explain the interactions among the terms.	50

CO-PO Map: *Fluid Mechanics II*

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Ability to develop the open channel flow equations from the basic conservation equations.	H	-	-	-	-	-	-	M	M	-	-	M
Ability to explain the terms of the open channel flow equations and explain the interactions among the terms.	-	-	-	M	-	-	-	-	-	-	-	M

Course Outcome Contribution in Each Question

Tool	Task No.	QNo	Marks	DL	BT Level	Percentage Contribution of Course Outcome
Internal	1	1	40	Average	Evaluating	CO1 [50], CO2 [50],
External	1	1	60	Average	Creating	CO1 [50], CO2 [50],

CO-Assessment-Marks: *Fluid Mechanics II*

We would consider 40% weightage for Internal Marks and 60% weightage for external marks for calculating attainment level of Student Course Outcome. In case of either only internal or external components, we would consider 100%.

CO1: Ability to develop the open channel flow equations from the basic conservation equations.

#	RollNo	Internal-1[20]	External-1[30]	Total [50]	MO(%)	Scale
1	1611983082	0	0	0	0	1
2	1611983001	11.5	19.5	31	62	3
3	1611983081	14	4.5	18.5	37	1
4	1611983002	13	16.5	29.5	59	2
5	1611983003	14.5	16.5	31	62	3
6	1611980706	10.5	16	26.5	53	2
7	1611983075	13.5	21	34.5	69	3
8	1611983006	12	12.5	24.5	49	2
9	1611983007	7	12.5	19.5	39	1
10	1611983008	12.5	15	27.5	55	2
11	1611983009	9	9.5	18.5	37	1
12	1611983010	12	13	25	50	2
13	1611983012	10.5	14.5	25	50	2
14	1611983072	18	20	38	76	3
15	1611983014	12	14.5	26.5	53	2
16	1611983015	12.5	16.5	29	58	2

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17	1611983016	10.5	15	25.5	51	2
18	1611983017	9	13	22	44	2
19	1611983080	1	0	1	2	1
20	1611983018	10	13	23	45	2
21	1611983078	12.5	15	27.5	56	2
22	1611983020	11	11.5	22.5	45	2
23	1611983021	11.5	14.5	26	52	2
24	1611983069	19.5	28	47.5	95	3
25	1611983022	11.5	22	33.5	67	3
26	1611983074	15	17.5	32.5	65	3
27	1611983076	8.5	14	22.5	45	2
28	1611980702	9	10.5	19.5	39	1
29	1611983084	0	0	0	0	1
30	1611983023	11	17	28	57	2
31	1611983025	11.5	11.5	23	46	2
32	1611983026	15.5	18.5	34	68	3
33	1611983028	13	19	32	64	3
34	1611983083	0	0	0	0	1
35	1611983030	13.5	20.5	34	68	3
36	1611983031	17	14.5	31.5	63	3
37	1611983032	7.5	3.5	11	22	1
38	1611983033	9.5	7.5	17	34	1
39	1611983034	16.5	20	36.5	73	3
40	1611983035	15	25.5	40.5	81	3
41	1611983037	14.5	14	28.5	57	2
42	1611983038	6.5	10	16.5	33	1
43	1611983039	14.5	20.5	35	70	3
44	1611983085	0	0	0	0	1
45	1611983040	15	24	39	78	3
46	1611983041	13.5	12.5	26	52	2
47	1611983071	18	27.5	45.5	91	3
48	1611983042	15.5	8.5	24	48	2
49	1611983043	10	12	22	44	2
50	1611980704	18.5	22	40.5	81	3
51	1611983044	14	17	31	62	3
52	1611983045	6.5	14.5	21	42	2
53	1611983046	13	19.5	32.5	65	3
54	1611983047	9	7	16	32	1
55	1611983048	13	14.5	27.5	56	2
56	1611983050	12.5	17	29.5	59	2
57	1611983051	10.5	12	22.5	45	2
58	1611983052	16	24.5	40.5	81	3
59	1611983070	13	13.5	26.5	53	2
60	1611983054	10	13.5	23.5	47	2
61	1611983053	18	21	39	78	3
62	1611983055	11.5	20.5	32	64	3
63	1611983056	13.5	15.5	29	58	2
64	1611983058	12	16	28	57	2
65	1611983059	15	21.5	36.5	73	3
66	1611983073	17.5	26	43.5	87	3
67	1611983060	6	0	6	12	1
68	1611983061	10	4.5	14.5	29	1
69	1611983062	13.5	15	28.5	57	2
70	1611983063	12.5	15	27.5	56	2
71	1611983064	15.5	20	35.5	71	3
72	1611983065	14	14.5	28.5	57	2
73	1611983066	17	19.5	36.5	73	3
74	1611983067	11.5	14	25.5	51	2
75	1611983077	15	18	33	66	3

CO Attainment on Scale of 3

Percentage of Students Scored above 60%


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2.16

36

CO2: Ability to explain the terms of the open channel flow equations and explain the interactions among the terms.

#	RollNo	Internal-1[20]	External-1[30]	Total [50]	MO(%)	Scale
1	1611983082	0	0	0	0	1
2	1611983001	11.5	19.5	31	62	3
3	1611983081	14	4.5	18.5	37	1
4	1611983002	13	16.5	29.5	59	2
5	1611983003	14.5	16.5	31	62	3
6	1611980706	10.5	16	26.5	53	2
7	1611983075	13.5	21	34.5	69	3
8	1611983006	12	12.5	24.5	49	2
9	1611983007	7	12.5	19.5	39	1
10	1611983008	12.5	15	27.5	56	2
11	1611983009	9	9.5	18.5	37	1
12	1611983010	12	13	25	50	2
13	1611983012	10.5	14.5	25	50	2
14	1611983072	18	20	38	76	3
15	1611983014	12	14.5	26.5	53	2
16	1611983015	12.5	16.5	29	58	2
17	1611983016	10.5	15	25.5	51	2
18	1611983017	9	13	22	44	2
19	1611983080	1	0	1	2	1
20	1611983018	10	13	23	46	2
21	1611983078	12.5	15	27.5	56	2
22	1611983020	11	11.5	22.5	45	2
23	1611983021	11.5	14.5	26	52	2
24	1611983059	19.5	28	47.5	95	3
25	1611983022	11.5	22	33.5	67	3
26	1611983074	15	17.5	32.5	65	3
27	1611983076	8.5	14	22.5	45	2
28	1611980702	9	10.5	19.5	39	1
29	1611983084	0	0	0	0	1
30	1611983023	11	17	28	57	2
31	1611983025	11.5	11.5	23	46	2
32	1611983026	15.5	18.5	34	68	3
33	1611983028	13	19	32	64	3
34	1611983083	0	0	0	0	1
35	1611983030	13.5	20.5	34	68	3
36	1611983031	17	14.5	31.5	63	3
37	1611983032	7.5	3.5	11	22	1
38	1611983033	9.5	7.5	17	34	1
39	1611983034	16.5	20	36.5	73	3
40	1611983035	15	25.5	40.5	81	3
41	1611983037	14.5	14	28.5	57	2
42	1611983038	6.5	10	16.5	33	1
43	1611983039	14.5	20.5	35	70	3
44	1611983085	0	0	0	0	1
45	1611983040	15	24	39	78	3
46	1611983041	13.5	12.5	26	52	2
47	1611983071	18	27.5	45.5	91	3
48	1611983042	15.5	8.5	24	48	2
49	1611983043	10	12	22	44	2
50	1611980704	18.5	22	40.5	81	3
51	1611983044	14	17	31	62	3
52	1611983045	6.5	14.5	21	42	2
53	1611983046	13	19.5	32.5	65	3
54	1611983047	9	7	16	32	1
55	1611983048	13	14.5	27.5	56	2
56	1611983050	12.5	17	29.5	59	2


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57	1611983051	10.5	12	22.5	45	2
58	1611983052	16	24.5	40.5	81	3
59	1611983070	13	13.5	26.5	53	2
60	1611983054	10	13.5	23.5	47	2
61	1611983053	18	21	39	78	3
62	1611983055	11.5	20.5	32	64	3
63	1611983056	13.5	15.5	29	58	2
64	1611983058	12	16	28	57	2
65	1611983059	15	21.5	36.5	73	3
66	1611983073	17.5	26	43.5	87	3
67	1611983060	6	0	6	12	1
68	1611983061	10	4.5	14.5	29	1
69	1611983062	13.5	15	28.5	57	2
70	1611983063	12.5	15	27.5	56	2
71	1611983064	15.5	20	35.5	71	3
72	1611983065	14	14.5	28.5	57	2
73	1611983066	17	19.5	36.5	73	3
74	1611983067	11.5	14	25.5	51	2
75	1611983077	15	18	33	66	3

CO Attainment on Scale of 3

Percentage of Students Scored above 60%

2.16

36


Attainment on Scale of 3

Percentage Attainment

2.16

72.00


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Chitkara University

Programme Outcome Attainment Report (Direct)

CO Attainment - PO Map: B.E. Civil Engineering

Subject	Course Outcome	Score	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
HUL 2101	Acquire the knowledge disaster management.	2.25	2	2	-	-	-	-	-	-	-	-	-	2
HUL 2101	Understand the vulnerability of ecosystem and infrastructure due to a disaster.	2.25	1	-	2	-	-	-	-	2	2	-	-	-
HUL 2101	Acquire the knowledge of disaster management Phases.	2.25	-	-	3	-	-	-	-	-	-	1	-	-
HUL 2101	Understand the hazard and vulnerability profile of India	2.25	-	-	3	-	-	-	3	-	-	-	-	2
AML5101	Introduce and form matrices to present mathematical solutions in a concise and informative manner. Use matrices to solve the problems of system of linear equations and solve various live problems using matrices.	2.27	-	3	-	2	3	-	-	-	-	-	-	3
AML5101	Find local extreme values of functions of several variables test for saddle points examine the conditions for the existence of absolute extreme values. Solve constraint problems using Lagrange multipliers and solve related application problems.	2.27	3	-	-	-	3	-	-	-	-	-	-	3
AML5101	Apply the principles of Integral Calculus to solve a variety of practical problems in Engineering and applied Sciences.	2.27	1	-	-	3	3	-	-	-	-	1	-	3
AML5101	Synthesize and apply multivariable vector-valued functions their derivatives and integrals to live problems graphically and analytically.	2.27	-	-	-	-	2	-	-	1	1	-	-	2
PYL5101	After completing this course the students will be able to analyze and solve mathematical problems relating to Gradient Divergence and Curl of scalar and vector field and establish their relationship with propagation of Electromagnetic waves in free space using Maxwells equation.	2.09	-	3	-	-	-	1	-	-	-	-	-	-
PYL5101	The students will be able to differentiate between different types of LASERS and optical fibres their operation advantages and disadvantages and solve related problems and their application in engineering domain.	2.09	2	-	-	-	-	-	-	-	-	-	-	2
PYL5101	The students will be able to differentiate between characteristics and properties of various magnetic and superconducting materials and establish their applications in engineering disciplines.	2.09	-	2	-	-	-	-	-	-	-	-	-	-
PYL5101	The students will be able to describe the dual nature of waves and particles in context of Quantum Mechanics and to apply the Schrodinger Wave Equation in solving different physical systems and processes.	2.09	-	1	-	-	-	-	-	-	-	-	-	-
EEL5102	Apply knowledge of mathematics science and engineering.	1.99	1	1	-	-	-	-	-	-	-	-	-	-
EEL5102	Identify formulate and solve engineering problems	1.99	3	3	-	-	3	-	-	-	-	-	-	3
EEL5102	Design a system component or process to meet desired needs within realistic constraints such as economic environmental social political ethical health and safety manufacturability and sustainability.	2.03	-	3	-	-	-	-	-	-	-	-	-	3
CHL4101	Develop innovative methods to produce soft water for industrial use and potable water at cheaper cost.	1.94	2	-	-	-	-	-	-	-	-	-	-	3
CHL4101	Substitute metals with conducting polymers and also produce cheaper biodegradable polymers to reduce environmental pollution.	1.94	-	3	-	-	3	-	-	-	-	-	-	-
CHL4101	Design economically and new methods of synthesis nano materials.	1.94	1	3	-	-	-	-	-	-	-	-	-	-
CHL4101	Apply their knowledge for protection of different metals from corrosion.	1.94	3	-	-	-	-	3	-	-	-	-	-	3
CHL4101	Have the knowledge of converting solar energy into most needy electrical energy efficiently and economically to reduce the environmental pollution.	1.94	3	-	-	-	-	-	-	-	-	-	-	2


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 CHITKARA UNIVERSITY
 BAROTIWALA, DISTT. SOLAN
 HIMACHAL PRADESH-174103

23-09-2022, 12:06

GEL4101	Understand the transnational character of environmental problems and ways of addressing them including interactions across local to global scales.	2.25	-	2	-	-	-	-	-	-	-	-	-	-	-	3
GEL4101	Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.	2.25	-	3	-	2	-	-	-	-	-	-	-	-	-	-
GEL4101	Reflect critically about their roles and identities as citizens consumers and environmental actors in a complex interconnected world.	2.25	-	-	-	-	-	-	-	2	2	-	-	-	-	-
GEL4101	Demonstrate proficiency in quantitative methods qualitative analysis critical thinking and written and oral communication needed to conduct high-level work as interdisciplinary scholars and/or practitioners.	2.25	2	-	-	-	-	-	-	-	-	-	-	-	-	3
PYP1101	Students will be able to co-relate practical knowledge with theoretical studies.	2.86	3	1	-	-	-	-	-	-	-	-	-	-	-	-
PYP1101	Students will achieve perfectness in experimental skills.	2.86	-	2	-	1	-	-	-	-	-	-	-	-	-	-
PYP1101	The study of practical applications will bring more confidence and ability to develop and fabricate engineering and technical equipments.	2.86	-	-	-	-	-	1	-	-	-	-	-	-	-	2
EEP1102	Get knowledge of various parts of an electrical machine.	2.86	1	-	-	-	-	-	-	-	-	-	-	-	-	2
EEP1102	Conduct speed control of different types of DC motors.	2.86	-	-	-	-	-	-	1	-	-	-	-	-	-	-
EEP1102	Elaborate the characteristics of DC servo motor.	2.86	3	3	-	-	-	-	-	-	-	-	-	-	-	-
EEP1102	Simulate laboratory experiments in the software.	2.86	-	-	-	-	-	-	-	-	-	-	-	-	-	2
EEP1102	Perform tests on motor-generator set.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EEP1102	Find different losses on machines.	2.86	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CHP1101	Determination of parameters like hardness and chloride content in water.	2.66	3	-	-	-	-	-	-	-	-	-	-	-	-	2
CHP1101	Estimation of rate constant of a reaction from concentration time relationships.	2.66	2	2	-	-	-	-	-	-	-	-	-	-	-	-
CHP1101	Determination of physical properties like adsorption surface tension and viscosity.	2.7	1	-	-	-	-	-	-	-	-	-	-	-	-	3
CEL5102	Determine resultants and apply conditions of static equilibrium to plane force systems	2.84	-	-	3	-	-	-	-	-	-	-	-	-	-	3
AML5102	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using Fourier series and Transforms Fourier and Laplace transform.	2.84	3	1	-	-	-	-	-	-	1	-	-	-	-	2
MEW2101	To acquire skills in basic mechanical engineering practice.	2.81	3	-	-	-	-	-	-	-	-	-	-	1	-	2
PYL5102	Understand the design selection and processing of materials for a wide range of applications in Industries and elsewhere	2.56	2	2	-	-	-	-	-	-	-	3	-	-	-	-
MEL4102	Understand the fundamentals of engineering drawing and geometrical objects	2.72	3	-	-	-	2	-	-	-	-	-	-	-	-	-
CSP1103	Describe the basics of computer and understand the problem-solving aspect.	2.64	3	-	-	-	-	-	-	2	2	-	-	-	-	2
MEP1102	Introduce CAD computer aided drafting software and its utilities in the engineering field.	2.84	3	3	-	3	-	-	-	-	-	-	-	-	-	3
ASP3101	Students will be able to apply material from their discipline to the design of community-based projects.	2.84	3	3	-	3	-	-	-	-	-	-	-	-	-	3
CEL5102	Identify and quantify all forces associated with a static framework	2.84	2	-	-	1	-	-	-	-	-	3	-	-	-	-
AML5102	Using ordinary differential equations student will be able to solve various practical problems in Science and Engineering.	2.84	-	2	-	1	-	-	-	-	-	-	-	-	-	-
MEW2101	To identify the hand tools and instrument	2.81	-	2	-	2	-	-	-	-	-	-	-	-	-	-
PYL5102	Understand how and why the properties of materials are controlled by structure and bonding at the atomic scale and by features at the microstructural and macroscopic levels.	2.56	2	-	1	-	-	-	-	-	-	-	-	-	-	-
MEL4102	Construct the technical letters and different types of scales.	2.72	-	3	-	-	-	-	2	-	-	-	-	3	-	-
CSP1103	Demonstrate the algorithm and flow chart for the given problem.	2.64	-	-	-	2	-	-	-	-	-	-	-	-	-	2


 REGISTRAR
 CHITKARA UNIVERSITY
 BAROTIWALA, DISTT. SOLAN
 HIMACHAL PRADESH-174103

MEP1102	Perform initial software setting and able to draw 2D entities. Edit the edit the drawings using modify commands skills.	2.84	-	-	-	-	-	-	-	-	-	-	-	-	3
ASP3101	Students will get an appreciation of the role that their discipline can play in social contexts.	2.84	-	-	-	-	-	-	-	-	-	-	-	-	3
CEL5102	Solve problems in kinematic and dynamic systems	2.84	-	2	-	-	3	-	-	-	-	-	-	-	-
AML5102	Possess an ability to recognize and find families of solutions for most real physical processes such as heat transfer elasticity quantum mechanics water flow and others which are governed by partial differential equations subject to boundary conditions.	2.84	-	-	-	-	-	1	-	-	-	-	-	-	2
MEW2101	To acquire measuring skills	2.81	-	-	-	2	-	-	-	-	-	-	-	-	2
PYL5102	Understand the composition of a material may be controlled by processing.	2.6	-	-	-	-	1	-	-	-	-	1	-	-	-
MEL4102	Develop the ability of drawing a wide range of geometrical figures	2.76	3	-	-	-	2	-	-	-	-	1	-	-	-
CSP1103	Design and develop C program to evaluate simple expressions and logical operations.	2.64	2	-	-	-	-	-	-	-	-	-	-	-	-
MEP1102	Draw basic isometric drawings using auto CAD will achieve perfectness in experimental.	2.84	-	-	2	-	-	-	-	-	-	2	-	-	-
ASP3101	To get awareness of professional ethics and responsibility.	2.84	-	-	2	-	-	-	-	-	-	2	-	-	-
CEL5102	Understand basic kinematics concepts displacement velocity and acceleration.	2.84	-	-	-	-	-	-	-	-	1	-	-	-	-
AML5102	Student will be able to analyze functions of complex variables techniques of complex integrals and compute integrals over complex surfaces.	2.84	3	2	-	-	-	-	-	-	-	3	-	-	-
MEW2101	To provides the knowledge of job materials In various shops	2.81	3	-	-	-	-	-	-	-	-	-	-	-	-
CSP1103	Develop & Implement C programming skills with suitable modules to solve the given problem.	2.64	-	-	-	-	2	-	-	-	-	-	2	-	-
ASP3101	To enhance team working and leadership skills to facilitate employability.	2.84	-	3	-	-	2	-	-	-	-	-	-	-	-
CEL5102	Understand basic dynamics concepts force momentum work and energy.	2.84	2	-	-	1	-	-	-	-	-	-	2	-	-
MEW2101	To provides the knowledge of core technical subjects for making and working of any type of projects	2.81	2	-	-	-	-	-	-	-	-	-	-	-	2
CSP1103	Demonstrate the concept of pointer and perform IO operations in files.	2.64	-	-	-	-	-	-	-	-	-	-	2	-	-
ASP3101	Demonstrate the ability to work in a team based small projects and effectively use.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CEL5102	Undertake laboratory practical and report results	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CEL3205	Evaluate various properties of concrete	2.65	3	-	-	-	-	-	-	-	-	-	1	2	-
CEL5201	Determine resultants and apply conditions of static equilibrium to plane force systems.	1.59	3	-	-	-	-	-	-	2	2	-	-	2	-
CEP1203	Identify name and characterize flow patterns and regimes.	2.86	3	-	-	-	2	-	-	-	-	-	-	-	-
CEP1207	Survey an area under various topographical feature and obstructions.	1.92	3	-	-	-	2	-	-	-	-	-	-	-	-
CEP1215	Able to check the quality of building materials	1.91	2	-	-	3	-	-	-	-	-	-	-	-	-
CEP1211	Conduct tension test on Materials like steel etc.	2.86	3	-	-	-	-	-	-	-	-	-	1	2	-
CEP2209	Demonstrate basic concepts of the AutoCAD software to gain employability.	2.77	-	-	-	1	-	-	-	-	-	-	-	-	1
CSP2103	Understanding a functional hierarchical code organization.	1.86	3	1	-	-	2	-	-	-	-	-	-	-	-
CEL3205	Evaluate various properties of the basic construction materials such as brick stone timber metals	2.65	-	2	-	2	-	-	-	-	-	-	-	-	-
CEL5201	Identify and quantify all forces associated with a static framework.	1.59	-	-	-	2	-	-	-	-	-	-	-	-	2
CEP1203	Understand basic units of measurement convert units and appreciate their magnitudes.	2.66	2	-	-	-	1	-	-	-	-	-	-	-	-
CEP1207	Prepare the plan or map of the area surveyed.	1.92	-	3	-	-	-	-	2	-	-	-	-	-	-
CEP1215	Able to Impart the knowledge about the characteristics sources and defects in various materials used for construction purposes.	1.91	-	-	-	-	-	-	-	-	-	-	-	-	1
CEP1211	Conduct compression tests on spring wood and concrete	2.86	-	2	-	2	-	-	-	-	-	-	-	-	-


 REGISTRAR
 CHITKARA UNIVERSITY
 BAROTIWALA, DISTT. SOLAN
 HIMACHAL PRADESH-174103

CEP2209	Apply basic skills to develop construction drawing techniques.	2.77	*	2	*	*	*	*	*	*	*	*	*	*
CSP2103	Ability to define and manage data structures based on problem subject domain.	1.86	2	3	*	*	*	*	2	*	*	*	*	*
CEL3205	Develop skills to work in field of building materials quality control.	2.65	*	*	*	2	*	*	*	*	*	*	*	2
CEP1203	Utilize basic measurement techniques of fluid mechanics.	2.86	*	*	*	*	*	*	*	*	1	*	*	2
CEP1207	Annalise report and where appropriate distribute the survey errors.	1.92	3	*	*	*	2	*	*	*	*	*	*	*
CEP1215	Able to design and test the materials either in the laboratory or in the field before their actual use at the site.	1.91	*	3	*	*	*	*	1	*	*	*	*	2
CEP1211	Conduct flexural and torsion test to determine elastic constants	2.86	*	*	*	2	*	*	*	*	*	*	*	2
CEP2209	Ability to manipulate drawings through editing and plotting techniques.	2.77	*	*	*	3	*	*	3	*	*	*	*	*
CSP2103	Ability to work with textual information characters and strings.	1.86	3	*	*	*	*	*	*	*	*	2	*	*
CEL3205	Evaluate the properties of miscellaneous materials such as bitumen paints dampening materials for structural repairs	2.85	3	*	*	*	*	*	*	*	*	*	*	*
CEP1203	Discuss the differences among measurement techniques their relevance and applications.	2.86	*	*	*	2	*	*	*	*	*	*	*	*
CEP1207	Perform instruments checks to ensure they meet the specifications.	1.92	*	*	*	*	*	*	*	*	*	*	*	3
CEP1215	Able to attain the knowledge of different building materials their classification.	1.91	*	2	*	*	*	*	*	*	*	*	*	2
CEP1211	Determine hardness of metals	2.86	3	*	*	*	*	*	*	*	*	*	*	*
CEP2209	Understand geometric construction.	2.77	1	*	*	*	*	*	3	*	*	*	*	*
CSP2103	Ability to work with arrays of complex objects.	1.86	2	*	*	*	*	*	*	1	1	*	*	3
CEL3205	Perform various quality control tests for the various civil engineering materials by performing different lab	2.65	2	*	*	*	*	*	*	*	*	*	*	2
CEP1203	Prove good understanding of concepts and their applications in the laboratory.	2.86	*	*	*	2	*	*	*	*	*	*	*	*
CEP1215	Enhances skills in quality control and thus helps in employability.	1.91	*	*	*	*	*	*	2	*	*	*	*	2
CEP2209	Produce template drawings	2.77	2	*	*	3	*	*	*	*	*	*	*	2
CSP2103	Understanding a concept of object thinking within the framework of functional model.	1.86	2	3	*	*	*	*	*	*	*	*	*	2
CEP1207	To make student ready for industry in field of surveying and thus enhances employability.	1.92	2	3	*	*	*	*	*	*	*	*	*	*
CEL5203	Solve hydrostatic problems	2.45	3	*	*	*	*	*	*	2	2	*	*	2
CEL5203	Describe the physical properties of a fluid	2.45	*	*	*	2	*	*	*	*	*	*	*	2
CEL5203	Calculate the pressure distribution for incompressible fluids	2.45	2	*	*	*	*	*	*	*	*	*	*	*
CEL5205	Calculate the hydrostatic pressure and force on plane and curved surfaces	2.45	*	*	*	2	*	*	*	*	*	*	2	*
CEL5203	Demonstrate the application point of hydrostatic forces on plane and curved surfaces	2.45	*	*	*	*	*	*	*	*	*	*	2	*
CEL4207	Skill enhanced to carry out preliminary surveying in the field of civil engineering applications such as structural highway engineering and geotechnical engineering.	2.49	*	*	3	*	*	*	*	*	*	*	*	3
CEL4207	Plan a survey taking accurate measurements field booking plotting and adjustment of traverse.	2.49	2	*	*	1	*	*	*	*	*	*	*	*
CEL4207	Use various conventional instruments involved in surveying with respect to utility and precision.	2.49	*	2	*	*	3	*	*	*	*	*	*	*
CEL4207	Plan a survey for applications such as road alignment and height of the building.	*	*	*	*	*	*	*	*	*	*	*	*	*
CEL4207	Undertake measurement and plotting in civil engineering	2.49	2	*	*	1	*	*	*	*	*	*	*	*
CEL3202	Ability to develop the open channel flow equations from the basic conservation equations.	2.16	3	*	*	*	*	*	*	2	2	*	*	2
CEL4206	Calculate deformation of statically determinate structures using geometric and energy methods.	2.15	3	*	*	2	*	*	*	*	*	*	*	3
CEL4212	Identify and compute the main mechanical properties of concrete and steel.	2.21	2	2	*	*	*	*	*	*	*	*	*	*

REGISTRAR
CHITKARA UNIVERSITY
BAROTIWALA, DISTT. SOLAN
HIMACHAL PRADESH-174103

CEP1202	Understand ethical issues associated with decision making and professional conduct.	2.8	-	-	-	-	2	-	-	-	-	-	-	-	-	-
CEP1206	Evaluate and draw the influence lines for reactions shears and bending moments in beams and girders due to moving loads.	2.84	2	-	-	1	-	-	-	-	-	-	-	-	2	-
CEP5304	Demonstrate the ability to work in a team based small projects and effectively use.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CEL5308	To understand analysis of indeterminate structures and adopt an appropriate structural analysis technique	1.95	3	-	-	-	-	-	-	2	2	-	-	-	1	-
CEL3311	Given basic information prepare a horizontal and vertical alignment including super elevation which complies with AASHTO standards.	2.48	3	-	1	-	-	-	2	-	-	-	-	-	-	-
CEL3303	Identify various water demands and select suitable source of water	2.59	2	2	-	-	-	-	-	-	-	-	-	-	2	-
CEL4305	Understand the origin of soil and to identify different types of soil.	2.21	1	-	-	3	-	-	-	-	-	-	-	3	-	-
CEP1311	Design and validate technological solutions to defined problems and communicate clearly and effectively for the practical application of their work. Identify engineering properties of aggregate.	2.87	2	-	-	-	3	-	-	-	-	-	-	-	-	-
CEP1303	Perform common environmental experiments relating to water and wastewater quality and know which tests are appropriate for given environmental problems and thus enhances skills of students and make them industry ready.	2.89	-	1	-	-	-	-	-	1	-	-	-	-	2	-
CEP1308	Have thorough knowledge about the procedures of laboratory tests used for determination of physical index and engineering properties of soils	2.87	3	3	-	-	-	-	-	-	-	-	-	-	2	-
CLP2501	Demonstrate Body Language Including facial expressions and voice modulation in/onion via role plays.	2.72	2	-	-	-	-	-	1	-	-	-	-	-	-	-
HUL3301	The students will be able to get awareness on human values and professional ethics	2.56	2	-	-	-	-	-	1	-	-	-	-	-	-	-
HUL2401	An ability to analyze a problem and to identify and define the computing requirements appropriate to its solution.	1.64	2	-	-	-	-	-	-	-	-	-	-	-	2	-
CET5301	Survey an area under various topographical feature and obstructions.	2.92	3	-	-	2	-	-	-	-	-	-	-	-	3	-
CEL5308	Determine response of structures by classical iterative and matrix methods	1.95	-	-	-	-	3	-	-	-	-	2	-	-	-	-
CEL3311	Understand the relationship between the environment and transportation infrastructure and the importance the environment plays in project development of transportation projects.	2.48	1	-	-	-	1	-	-	-	-	-	-	-	1	-
CEL3303	Able to determine the population forecast for a city to meet its water requirement.	2.59	-	-	3	-	-	-	-	-	2	-	-	-	-	-
CEL4305	To understand the various physical and engineering characteristics of different types of soil	2.21	3	-	-	-	-	-	-	2	2	-	-	-	1	-
CEP1311	Design and validate technological solutions to defined problems and communicate clearly and effectively for the practical application of their work. Identify the grade & properties of bitumen.	2.87	1	1	-	-	-	-	-	-	-	-	-	-	-	-
CEP1303	Statistically analyze and interpret laboratorial results.	2.89	2	-	1	2	-	-	-	-	-	-	-	-	1	-
CEP1308	Have the capability to classify soils based on test results and interpret engineering behavior based on test results	2.87	2	-	-	-	2	-	-	-	-	-	-	-	-	-
CLP2501	Team Dynamics via text-based group presentations.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HUL3301	The students will understand the core values that shape their ethical behavior.	2.56	-	-	-	-	-	-	2	-	-	-	-	-	-	-
HUL2401	An ability to design implement and evaluate a computer-based solution to meet a given set of computing requirements in the context of the discipline.	1.64	-	-	3	-	-	-	-	-	-	-	-	-	-	-
CET5301	Prepare the plan or map of the area surveyed.	2.92	2	-	-	-	-	-	-	-	-	-	-	-	2	-
CEL5308	To use the techniques skills and modern engineering methods involved in the analysis of structures.	1.95	-	3	-	1	-	-	-	-	-	-	-	-	-	-
CEL3311	Utilize CAD software to prepare a plan profile and x-sections depicting a typical roadway design.	2.48	2	-	-	-	-	-	-	3	2	-	-	-	-	-


 REGISTRAR
 CHITKARA UNIVERSITY
 BAROTIWALA, DISTT. SOLAN
 HIMACHAL PRADESH-174103

REGISTRAR
CHITKARA UNIVERSITY
BAROTIWALA, DISTT. SOLAN
HIMACHAL PRADESH-174103

CEP1310	Understand and use the water and wastewater sampling procedures and sample preservations.	2.95	1	-	-	-	-	-	-	3	2	-	-	2
CEP5202	Demonstrate the ability to work in a team based small projects and effectively use.	2.95	-	-	-	-	-	-	3	-	-	-	-	2
CLP2502	Research Aptitude via projects	2.92	1	-	-	-	2	-	-	-	-	-	-	-
CEL3308	Be capable of using relevant software packages for planning scheduling executing and controlling of construction projects.	2.73	2	-	-	-	-	-	-	-	-	-	-	3
CEL3310	Identify and analyze of air and noise pollution including methods for prevention control measures and management of the pollution.	2.44	-	-	-	3	-	-	-	-	2	-	-	-
CEL3302	Will able to value a property price escalation recommendations and auditing	2.64	1	2	-	-	-	-	-	-	-	-	-	-
CEL4304	Ability to analyze and design of simple bolted and welded connections	2.43	-	-	-	-	3	-	-	-	-	3	-	1
CEL5314	Discuss professional responsibility in light of social context of engineering problems.	2.49	3	-	-	2	-	-	-	-	-	-	2	-
CEP1310	Obtain the necessary background for subsequent courses in environmental engineering.	2.95	2	-	-	-	-	-	-	2	2	-	-	3
CEP5202	To enhance team working and leadership skills to facilitate employability.	2.95	2	-	-	-	-	-	1	-	-	-	-	-
CLP2502	Effective communication with emphasis on capturing the attention of the audience to develop employability skills.	2.92	3	2	-	3	-	-	-	-	-	-	-	2
CEL4308	The students will gain an experience in the implementation of Geotechnical Engineering on engineering concepts which are applied in field Geotechnical Engineering.	2.23	1	-	-	3	-	-	-	-	-	-	3	-
CEL3427	Explain basic physical principles of remote sensing	2.67	3	-	3	-	-	-	-	-	-	-	-	3
CEL3408	Be able to find the necessary information/legislation/procedures for an assessment of environmental impact of a Project	2.68	3	1	-	2	-	-	-	-	-	-	-	-
CEP1302	Have thorough knowledge about the procedures of laboratory tests used for determination of physical index and engineering properties of soils.	2.95	3	3	-	-	-	-	-	-	-	-	-	2
CEP1427	Interpret hard copy satellite FCC images.	2.97	-	-	-	3	-	-	2	-	-	-	-	-
GTI2401	Students will be able to introduce and form matrices to present mathematical solutions in a concise and informative manner. Use matrices to solve the problems of system of linear equations and solve various live problems using matrices.	2.88	1	-	-	-	-	2	-	-	-	-	-	-
GTI4301	Student will be able to improve answers during the Aptitude test and develop an all-around personality with a mature outlook.	2.57	3	-	-	-	-	-	3	2	-	-	-	3
CEP3307	Students will able to apply material from their discipline to the design projects.	2.92	3	-	-	2	-	-	-	-	-	-	-	3
CEL4306	The students will get a diverse knowledge of geotechnical engineering practices applied to real life problems of designing of structures.	2.23	3	-	-	-	-	-	-	2	2	-	-	1
CEL3427	Understand the basic difference between various kinds of satellites and sensors	2.67	2	3	-	1	-	-	-	-	-	-	-	2
CEL3408	Be able to conduct an EIA on a proposed project	2.68	1	-	-	-	-	-	-	-	-	2	-	-
CEP1302	Have the capability to classify soils based on test results and interpret engineering behavior based on test results	2.95	2	-	-	-	2	-	-	-	-	-	-	-
CEP1427	Understand the effect of different resolutions of satellite image on identifying terrestrial features.	2.97	1	-	-	-	-	-	3	-	-	-	-	-
GTI2401	Students will be able to find local extreme values of functions of several variables test for saddle points examine the conditions for the existence of absolute extreme values. Solve constraint problems using Lagrange multipliers and solve related application problems.	2.88	3	2	-	3	-	-	-	-	-	-	-	2
GTI4301	Student will be able to enhance their logical thinking verbal reasoning and numerical reasoning.	2.57	1	-	3	-	-	-	-	-	-	3	-	3
CEP3307	Students will get an appreciation of the role that their discipline can play in social contexts.	2.92	2	-	-	-	-	-	-	1	2	-	-	2


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 BAROTIWALA, DISTT. SOLAN
 HIMACHAL PRADESH-174103

CEL4306	The students will get a diverse knowledge of geotechnical engineering practices applied to real life problems of designing of structures.	2.27	-	-	-	-	-	3	-	-	-	2	-	-
CEL3427	Know the appropriate use of satellite data for different applications	2.67	-	2	-	-	3	-	-	-	-	-	-	-
CEL3408	Be able to conduct an environmental audit on a selected company/industry	2.68	1	-	-	1	-	-	-	-	-	-	-	-
CEP1302	Be able to evaluate the permeability and shear strength of soils	2.95	-	2	-	-	-	-	1	-	-	-	-	-
CEP1427	Generate field spectra for various land cover features and draw inferences.	2.97	2	-	-	2	-	-	1	-	-	-	-	2
GT12401	Students will be able to apply the principles of Integral Calculus to solve a variety of practical problems in Engineering and applied Sciences.	2.88	3	-	-	3	-	-	-	1	2	-	-	-
GT14301	Students will take part effectively and confidently not only in campus placements programs but also in other exams like CAT GMAT SSC Bank Po UPSC etc.	2.61	2	-	-	-	-	2	-	-	-	-	-	-
CEP3307	To get awareness of professional ethics and responsibility & develop the skills for employability.	2.92	-	-	-	2	-	-	-	-	-	-	-	-
CEL3427	Explain the principles of thermal and microwave satellites sensors and their nature of the data	2.67	-	3	-	1	-	-	2	-	-	-	-	2
CEL3408	Be able to develop a waste reduction and minimization plan for a selected company/industry	2.68	-	-	3	-	-	-	-	-	-	3	-	-
CEP1302	Be able to evaluate settlement characteristics of soils	2.95	2	2	-	-	-	-	-	-	-	-	-	3
CEP1427	Extract different features from satellite image.	2.97	-	-	-	2	-	-	-	-	-	1	-	-
GT12401	Students will be able to interpret statistical inference tasks with the help of probability & distributions and hypothesis testing for means variances and proportions of large as well as small data and employ appropriate regression models in determining statistical relationships.	2.88	2	1	-	1	-	-	-	-	-	-	-	2
CEP3307	Demonstrate the ability to work in a team based small projects and effectively use.	2.02	2	-	-	-	-	-	-	-	-	-	-	-
CEL3427	Apply remote sensing in different thematic studies	2.67	2	-	-	-	-	-	-	-	-	-	-	-
CEL3408	Be able to develop an EMS for a Project	2.68	3	-	-	2	-	-	-	-	-	-	-	-
CEP1302	Be able to evaluate compaction characteristics required for field application	2.95	3	-	-	-	-	-	2	2	-	-	-	-
CEP1427	Provides effective learning of industry orientated techniques related to the subject personality development communication and skills for employability development	-	-	-	-	-	-	-	-	-	-	-	-	-
CEP3307	Develop skills to communicate with engineers and the community at large in written an oral form.	-	-	-	-	-	-	-	-	-	-	-	-	-
CEL3408	Be able to conduct a LCA on a selected process	-	-	-	-	-	-	-	-	-	-	-	-	-
CET9403	Capability to acquire and apply fundamental principles of engineering.	2.97	2	-	1	-	-	-	-	-	-	-	-	-
CET9403	To get awareness of professional ethics and responsibility. Become master in ones specialized technology	2.97	2	-	2	-	-	-	-	-	-	-	-	-
CET9403	To get awareness of professional ethics and responsibility. Become updated with all the latest changes in technological world.	2.97	1	-	-	-	-	-	2	-	-	-	-	-
CET9403	To get awareness of professional ethics and responsibility. Ability to communicate efficiently.	2.97	2	1	-	-	-	-	-	-	-	-	-	-
CET9403	To get awareness of professional ethics and responsibility. Knock to be a multi-skilled engineer with good technical knowledge management leadership and entrepreneurship skills.	2.97	-	-	-	3	-	-	-	-	1	-	-	-

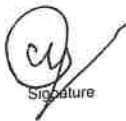
PO Attainment of Subjects: B.E. Civil Engineering

Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
HUL 2101	75	75	75	-	-	-	75	75	75	75	-	75
AML5101	76	76	-	76	76	-	-	76	76	76	-	76
PYL5101	70	70	-	-	-	70	-	-	-	-	-	70
EEL5102	66	67	-	-	66	-	-	-	-	-	-	67

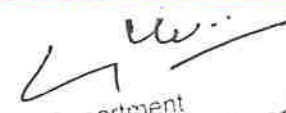
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CHL4101	65	65	-	-	65	65	-	-	-	-	-	65
GEL4101	75	75	-	75	-	-	-	75	75	-	-	75
PYP1101	95	95	-	95	-	95	-	-	-	-	-	95
EEP1102	95	95	-	-	-	-	95	-	-	-	-	95
CHP1101	89	89	-	-	-	-	-	-	-	-	-	89
AML5102	95	95	-	95	-	95	-	-	95	95	-	95
MEW2101	94	94	-	94	-	-	-	-	-	-	94	94
PYL5102	85	85	85	-	87	-	-	-	-	86	-	-
MEL4102	91	91	-	-	91	-	91	-	-	92	91	-
CSP1103	88	-	-	88	88	-	-	88	88	-	88	88
MEP1102	95	95	95	95	-	-	-	-	-	95	-	95
ASP3101	95	95	95	95	95	-	-	-	-	95	-	95
CEL5102	95	95	95	95	95	-	-	-	95	95	95	95
CSP2103	62	62	-	-	62	-	62	62	62	-	62	62
CEL3205	88	88	-	88	-	-	-	-	-	-	88	88
CEL5201	53	-	-	53	-	-	-	53	53	-	-	53
CEP1203	95	-	-	95	95	-	-	-	-	95	-	95
CEP1207	64	64	-	-	64	-	64	-	-	-	-	64
CEP1215	64	64	-	64	-	-	64	-	-	-	-	64
CEP2209	92	92	-	92	-	-	92	-	-	-	-	92
CEP1211	95	95	-	95	-	-	-	-	-	-	95	95
CEL5203	82	-	-	82	82	-	-	82	82	-	82	82
CEL4207	83	83	83	83	83	-	-	-	-	-	-	83
CEL3202	72	-	-	72	-	-	-	72	72	-	-	72
CEP5304	95	95	95	95	95	-	-	-	-	95	-	95
CEP1212	94	-	94	94	-	-	-	94	94	94	-	94
CEP1206	95	-	-	95	-	-	-	-	-	-	-	95
CEP1202	93	-	-	-	93	-	-	-	-	93	-	93
CEL3208	84	-	-	84	-	-	-	-	-	-	-	84
CEL4212	74	74	-	-	74	-	-	-	-	-	74	74
CEL4206	72	-	-	72	-	-	-	-	-	-	-	72
CEP1303	96	96	96	96	-	-	-	96	96	-	-	96
CLP2501	91	-	-	-	-	91	91	-	-	-	-	-
HUL3301	85	-	-	-	-	-	85	-	-	-	-	-
HUL2401	55.00000000000001	55.00000000000001	55.00000000000001	55.00000000000001	55.00000000000001	-	55.00000000000001	-	-	-	-	55.00000000000001
CEP1308	96	96	-	-	96	-	96	96	96	-	-	96
CEP1311	96	96	-	-	96	96	-	-	-	-	-	96
CEL4305	74	74	-	74	-	74	-	74	74	74	74	74
CEL3303	86	86	86	-	-	-	-	-	86	-	-	86
CET5301	97	-	-	97	-	-	-	-	-	-	-	97
CEL3311	83	-	83	83	83	-	83	83	83	-	83	83
CEL5308	65	65	65	65	65	65	65	65	65	65	-	65
CLP2502	97	97	97	97	97	-	-	-	-	97	-	97
CEP5202	98	98	98	-	-	-	98	-	-	-	-	98
CEP1310	98	98	98	98	-	-	-	98	98	-	-	98
CEL5314	83	-	83	83	83	-	-	83	83	83	83	83
CEL4304	81	81	-	-	81	-	81	81	81	81	-	81
CEL3302	88	88	-	88	-	-	-	-	-	88	-	88
CEL3310	81	81	81	81	-	81	-	-	81	-	-	81
CEL3308	91	91	-	91	-	-	91	-	-	91	-	91
CEP3307	97	-	-	97	-	-	-	97	97	-	-	97
GTI4301	86	-	86	-	-	87	86	86	-	86	-	86
GTI2401	96	96	-	96	-	96	-	96	96	-	-	96
CEP1427	99	-	-	99	-	-	99	-	-	99	-	99
CEP1302	98	98	-	-	98	-	98	98	98	-	-	98
CEL3408	89	89	89	89	-	-	-	-	-	89	-	-
CEL3427	89	89	89	89	89	-	89	-	-	-	-	89
CEL4306	74	-	-	74	-	76	-	74	74	76	74	74
CET9403	99	99	99	-	99	-	99	-	-	99	-	-
POA	85.22	95.16	87.36	85.95	84.96	81.92	83.76	82.00	83.00	98.08	83.31	84.74


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Signature

Name
(Programme In-charge)


Head of Department
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